

Annual Report 2017-18



University of the Punjab
Lahore – Pakistan

UNIVERSITY OF THE PUNJAB

Annual Report 2017-2018

ANNUAL REPORT COMMITTEE

| | | |
|-----|---|-------------------|
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| 2. | Faculty of Arts & Humanities | Member |
| 3. | Faculty of Behavioral & Social Sciences | Member |
| 4. | Faculty of Commerce | Member |
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| 7. | Faculty of Islamic Studies | Member |
| 8. | Faculty of Law | Member |
| 9. | Faculty of Life Sciences | Member |
| 10. | Faculty of Oriental Learning | Member |
| 11. | Faculty of Pharmacy | Member |
| 12. | Faculty of Sciences | Member |
| 13. | Focal Persons Nominated by HoDs for Annual Report | Member |
| 14. | Director Quality Enhancement Cell | Member |
| 15. | Registrar or his Nominee | Member |
| 16. | Deputy Director, Planning and Development Wing | Secretary |

INTRODUCTION

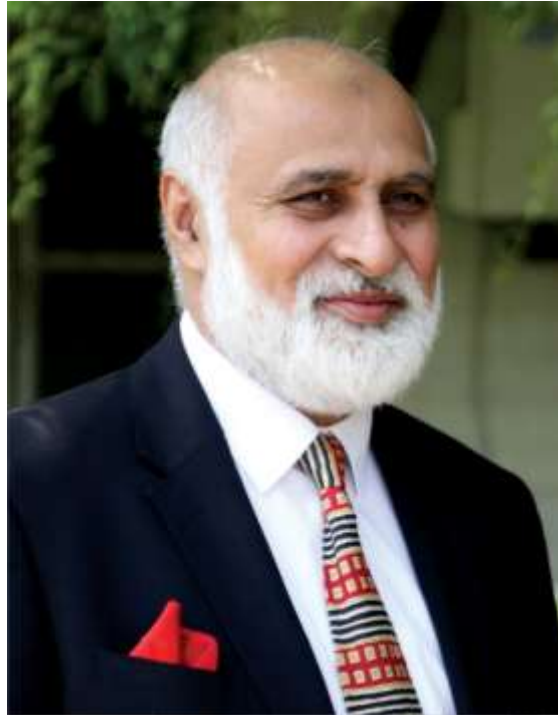
University of the Punjab was formally established with the convening of the first meeting of its Senate on October 14th, 1882 at Simla. It was the fourth University to be established by the British Colonial Authorities in the Indian Subcontinent. The first three Universities were established by the British at their stronghold of Bombay, Madras and Calcutta. University of the Punjab, came into existence as a result of a long drawn struggle of the people of the Punjab after the War of Independence in 1857. Contrary to three previously established universities, which were only examining bodies, University of the Punjab has been both a teaching as well as an examining body right from the beginning.

Growth of the University has continued during recent decades. Allama Iqbal Campus (Old Campus) could not meet the growing needs of the university, the construction of Quaid e Azam Campus (New Campus) was started in 1958. Since then, academic, administrative, residential blocks and other facilities have been added to the Quaid e Azam Campus which is now the nucleus of University activities.

At present University of the Punjab comprises Four (4) Campus across Punjab and one campus in KPK (total Five) which are briefly introduced below:-

1. Allama Iqbal campus with a more traditional architectural design, name after the great south Asian philosopher and mystic poet, is situated in the middle of bustling city of Lahore. It covers an area of 50.37 Acres. The historical senate hall, the syndicate room and the main hall are located in Allama Iqbal campus. The college of Art & Design, college of pharmacy, Punjab University college of Information Technology and Oriental College are also located at Allama Iqbal Campus.
2. Quaid e Azam Campus, named after the father of nation, is situated in 12 kilometers to the south of Allama Iqbal Campus. Encapsulating an area of 1781 Acres of lush green landscape, this campus is the center of academic and administrative activities of the university. It accommodates numerous academic blocks, an administrative block, a central library, students' hostels, staff residences, a medical complex, day care centre, sports fields, a swimming pool, a boat club and other facilities. A canal running through this campus adds beauty to the surroundings. Various academic blocks are situated towards north side of the canal, whereas, the students' residences blocks lies to its south.
3. Gujranwala Campus, covering an area of 10.13 Acres, was established in 2006. Education in business administration, Commerce, Law and Information Technology is being imparted in this campus.
4. Jhelum Campus, covering an area of 32.37 Acres, was established in 2011. Education in business administration, commerce, Law and Information Technology is being imparted in this campus.
5. Khanspur Campus, spreading over an area of 2.47 Acres, is situated at a height of about 7000 feet in the Himalayan range of mountains. It is providing research facilities in some disciplines and is also used as a recreational center both for the faculty and the students.

There are 13 faculties, 10 constituent colleges, 73 departments/centers/institutes, 33 hostels-18 for male students, 10 for female students and 5 for young faculty and 596 affiliated colleges. There are more than 46000 on-campus students and 300000 off-campus students. It has around 900 permanent faculty members who are engaged in teaching and research activities.



Prof. Dr. Niaz Ahmad AKhtar
Vice Chancellor

MESSAGE

At University of the Punjab, Year 2017-18 was an year of faculty development, research breakthroughs, initiation of online Admissions system, concept clearance of University of the Punjab Medical and Teaching Hospital and initiation of student support programs. All these milestones have been abridged in this Annual Report.

During 2017-2018, this university enrolled 43000 regular students in about 350 academic programs, amongst these, 2111 students were enrolled in PhD degree programs being offered in multiple disciplines. During this year, the university enrolled 70000 students through its 615 affiliated colleges. There are about 900 regular faculty members, more than half of these are Ph.D. holders. This year, University produced 192 PhDs. The University Faculty also produced 1505 publications. Out of these, 851 have impact factor. As far promotion of research is concerned, its funding has been increased upto Rs. 150 million in 2018. A research Endowment fund (created with Rs. 250 million in 2010) currently stands at Rs. 600 million.

As far faculty development is concerned, an amount of Rs. 70 has been allocated for faculty development program. Further, an endowment fund of Rs. 33 million has also been set up for welfare of the employees. To alleviate financial hardship of students, need and merit based scholarships are provided. During this year, more than 25 % of regular students were provided scholarships. University first time launched online admission system of the students for Session 2018 and received over 150,000 applications, out of which about 12000 were got admission.

University management has taken initiative to materialize the plan for establishment of Medical College and a hospital. Last but not the least, University of the Punjab has improved its ranking amongst the International Universities.

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Chapter

1

ACADEMIC ACTIVITIES

- *Undergraduate and Postgraduate Programmes*
- *MS and PhD Programmes*
- *Academic Achievements*
- *Foreign Academic Linkages*
- *Honours and Awards*
- *Institutional Linkages*

**CHAPTER****1****Academic Activities****Faculty of Arts & Humanities****CENTRE FOR SOUTH ASIAN STUDIES**

Telephone (s): +92-42-99231143

Fax Number (s): +92-42-99232039

E-mail Address (s): director.csas@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

Indian Studies Diploma

○ **MS and PhD Programmes**

M.Phil. Morning & Evening & Ph.D.

○ **Academic Achievements**

- M.Phil. 14 (Morning) 2017 & 08 (Evening) 2018 & Ph.D. 07 2017
- 24 Indian Studies Diploma
- 33 M.Phil Pass out Students and 02 Ph.D Pass out Students

COLLEGE OF ART & DESIGN

Telephone (s): +92-42-99212729, 042-99212778-79

Fax Number (s): +92-042-99212779

E-mail Address (s): principal.cad@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- BFA (Painting, Sculpture, Graphic Arts, Graphic Design, Textile Design)
- B Arch
- MFA (Painting, Sculpture, Graphic Arts, Graphic Design, Textile Design)
- M. Arch.
- MA (Painting and Music)

○ **M.Phil and PhD Programs**

- M. Phil (Studio Practice and Art History)
- PhD (Art and Design)

Diplomas

- Professional Diploma (Fine Arts, Graphic Design, Textile Design, Drawing, Music)
- Postgraduate Diploma in Interior Design



○ Academic Achievements

■ M. Phil Degrees Awarded

- Ms. Huamiara Dawood an M.Phil (Professional Practice) candidate was successful. Her thesis was completed under the supervision of Prof. Dr. Shahida Manzoor. The topic of her thesis was "Graphic Representation of Poetry, A Visual Relation between Form and Content".
- Ms Suffah Naeem an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Rahat Naveed Masud. The topic of her thesis was "Purdah".
- Ms Anum Saeed a MS Art History candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of her thesis was "Woodcut Prints of Mehboob Ali".
- Ms Sonia Nasir Khan an M.Phil candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of her thesis was "Aesthetics and Techniques of the Frescoes of Jahangir's Tomb".
- Mr. Tasadduq Amin an M.Phil. (Professional Practice) candidate was declared successful. His thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of his thesis was "Still Life Painting in Pakistan (A Study and Evaluation of Still Life Paintings by Pakistani Artists)".
- Ms Saba Sadaf Naseer an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shahida Manzoor. The topic of her thesis was "Woman as Represented by Male and Female Painters of Pakistan".
- Mr. Azmat Ali an M.Phil. (Professional Practice) candidate was declared successful. His thesis was completed under the supervision of Prof. Dr. Nasim Aktar Said. The topic of his thesis was "Dichotomy".
- Ms Amina Sarfraz an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shahida Manzoor. The topic of her thesis was "Innovation through Tradition".
- Ms Amna Anwar Khan an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of her thesis was "Flora and Fauna in Jahangir's Period".
- Mr. Muhammad Ahsan Bilal an M.Phil. candidate was declared successful. His thesis was completed under the supervision of Prof. Dr. Shahida Manzoor. The topic of his thesis was "Design Transition of Iconic Brands and Its Impact on Modern Epoch".
- Ms Amna Ansari an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Dr. Kanwal Khalid. The topic of her thesis was "Appraisal and Rational Scripts of Eastern Island and Indus Valley".



- Ms Anam Tahir an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of her thesis was “A Study of Historical Monuments in Taxila and Hassan Abdal”.
- Ms Mariam Shaher Bano an M.Phil. candidate was declared successful. Her thesis was completed under the supervision of Prof. Dr. Shaukat Mahmood. The topic of her thesis was “Frescoes and Miniature Paintings of Sheikhpura Fort.

DEPARTMENT OF ARCHAEOLOGY

Telephone (s): +92-42-99230322

E-mail Address (s): chairman.arch@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

M.A. Archaeology (2-years programme)

○ **MS and PhD Programmes**

M. Phil Programme (2-years programme)

○ **Academic Achievements**

25 students have passed during Annual examination of M.A. Archaeology

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

Telephone (s): +92-42-99231168

Fax Number (s): +92-42-99231169

E-mail Address (s): chairperson.english@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- Master of Arts in English (Morning & Replica)
- BS in English (Afternoon)
- Postgraduate Diploma in English Language Teaching (PGD-ELT)
- Diploma in Linguistics
- Spoken English Certificate

○ **MS and PhD Programmes**

- Ph. D in English
- Master of Philosophy in English

○ **Foreign Academic Linkages**

St. Andrews University, Scotland

○ **Institutional Linkages**

St. Andrews University, Scotland

○ **Academic Achievement**

- A list of M.A Morning Session (2015-2017) Research Papers Completed.

| | | |
|---|--------------------|--|
| 1 | Israr Ahmad Kashif | The Sacred and the Secular in Modern Turkey: How Fiction Intervenes Real Politics in Orhan Pamuk's Snow. |
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|----|----------------------|--|
| 2 | Rumesha Baasit | Amy Waldman's The Submission: A Study of the Gulf between the Silence of Private Grief and the Clamor of Public Grief in Changing America. |
| 3 | Asifa Khan | Women's Identity, Survival and the Significance of the Red Color in Margaret Atwood Dystopian. The Handmaid's Tale |
| 4 | Zunaira Zafar | Maria's Process of Self Discovery and Psychological Development in Paulo Coelho's "Eleven Minutes." |
| 5 | Rabia Munir | Adult Attitudes to Race and Class in American Deep South of the 1930's and the Weight of History in Harper Lee's "Jo Kill a Mocking Bird." |
| 6 | Fatima Hasnain | Dissent, Discontent, and Postcolonial Negotiation of Identity in Chimamanda Ngozi Adichie's Half of a Yellow Sun. |
| 7 | Nouman Khan | Recognition of Self in Lingstone's Funeral by Landea White. |
| 8 | Syeda Iqra Ather | Representation of Delhi in The City of Sins by William Dattymple. |
| 9 | Ayesha Riaz | Decoding the Code – A study of the Paintings in The D. Vincci Code by Dan Brown. (Feminine Identity in) |
| 10 | Rafaqat Ali | Construction of the Orhan Pamuk's Novel. My Name is Red. |
| 11 | Zaina Afzal | Two Indias – The Metaphor of Darkness in The White Tiger by Arvind Adiga. |
| 12 | Ayesha Yaseen | Construction of Masculinity in The Time of the Hero by Mario Vargas Llosa. |
| 13 | Shamila | The Process of Self-Actualization in "Aik Thi Nani" by Shahid Nadeem. |
| 14 | Iffat Anayat | Magical Realism in The Famished Road |
| 15 | Momina Hunain | Symbolic Significance of the Title Exit West in Moshin's Hamid Exit West. |
| 16 | Umaira Frooq | Diplomacy of Zia-ul-Haq and Theory of Kosher and Forbidden (A Case of Exploding mangoes by Muhammad Hanif) |
| 17 | Shanza Batool | Psychological Abnormalities due to Displacement (The Bastards of Istanbul by Elif Shafak) |
| 18 | Hafiza Safia Ramazan | Women's Rebellion in A Thousand Splendid Suns. |
| 19 | Zohaib ul Hassan | The Geographical, Religious and Ethnic Consciousness: in Effaceable in Khaled Hosseini's The Kite Runner |
| 20 | Rehab Nadeem | Distinctive Class System Living two Worlds (The Inheritance of Loss by Kiran Desai) |
| 21 | Muhammad Azhar | Religious Ideology in Orhan Pamuk's My Name is Red. |



| | | |
|----|---------------------|---|
| 22 | SyedaQurratul Ain | Gender Politics in the Imperialist Ideology in A Passage to India |
| 23 | Amina Yousaf | Lost in Translation: Taufiq Raffat's translations of Bhulleh Shah |
| 24 | Um-e-Kaloom | Race & Masculinity in Achebe's Arrow of God. |
| 25 | Sania Rehman | Trauma Studies and Literature: A Reading of Alice Sebold's The Lovely Bones. |
| 26 | HinaNaseeb Din | Gender & Trauma during the Partition in Bapsi Sidhwa's Ice-Candy Man |
| 27 | Ahmad Farhan Arshad | Revisiting History in Fiction: The 1857 Revolt as a War of Racial Conflict in Ruskin Bond's |
| 28 | Sara Salamat | Dystopia, Contemporary Global Cultural realities and Xenophobia in Mohsin Hamid novel Exit West |
| 29 | Farah Munir | Hibakusha and the Baggage of Disaster in Shamsie's Burnt Shadows. |
| 30 | Mafia Shehzadi | Memory as History in Cache in Suryya Khan's Noor. |
| 31 | Iqra Manzoor | Displacement and Cycle of Memory in Ashes, Wine and Dust by Kanza Javed. |
| 32 | Hassan Masood | A Study of Divided Otherness in Mohsin Hamid's The Reluctant Fundamentalist. |
| 33 | Noor ul Hudda | Conflict between Mundane and Sacred: An Empathetic Approach to Talibanisation in Guardians of Gods by Mona Kanwal Sheikh. |
| 34 | Sumaira Farooq | A Study of Paranoia in Shamsie's Broken Verses. |
| 35 | Nayab Gull | Karim's Exploration of Identity through Music and Sexuality in Hanif Kureishi's Buddha of Suburbia. |
| 36 | Muhammad Rafique | Reflections of Artaud's Theater of Cruelty in Usman Ali's The Guilt. |
| 37 | Hafiza Esha Saud | Reconstruction of Identity in Sara Meatless Days. |
| 38 | Asma Nawaz | Dynamics of Invasion in Khaled Hosseini's The Kite Runner. |

■ A list of M.A Replica Session (2015-2017) Research Papers Completed

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|---|------------------|---|
| 1 | Fatima Farooq | A Study of Colonization in Aslam's: The Blind man's Garden. |
| 2 | Muhammad Shakeel | Kapoor's Difficult Daughters: An Existentialist Feminist Study |
| 3 | Maryam Amatullah | Gender and Creativity in the Novel The Wife by Meg Wolitzer |
| 4 | Asmat Ali | Capitalism and its Outcomes in in Daniyal Mohiyyuddin's In Other Rooms Other Wonders. |



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| 5 | Roshaan Khalid | Confronting Anxieties of Childhood in Sophie Kinsela's <i>Finding Audrey</i> |
| 6 | Ahtasham Talib | Victims of Rape and Marriage in Bapsi Sidhwa's <i>The Bride</i> |
| 7 | Sobia Ahsan | Predicament of Pakistani common man in Mohsin Hamid's <i>Mothsmoke</i> |
| 8 | Saba Faisal | Discontents of Desire in E.L. James' <i>Fifty Shades of Grey</i> |
| 9 | Nargis Sultana | Patriarchal Narcissism in Danielle Steele's <i>Daddy</i> |
| 10 | Um-e-Habbiba | Orthodoxies of Culture and Religion in Nadeem Aslam's <i>Maps for Lost Lovers</i> |
| 11 | Messum Ali | Fact and Fantasy in J.K. Rowling's <i>Harry Potter and the Philosopher's Stone</i> |
| 12 | Rimsha Shehbaz | Phenomenon of Sever and Presence in Khaled Hosseini's <i>The Kite Runner</i> . |
| 13 | Alliha Fatima | Ambrosial Metaphors in Elif Shafak "The Bastards of Istanbul" |
| 14 | Faiza Butt | Historical Ekatas in Kamle Shamsie's "A God in Every Stone" |
| 15 | Sadia Jan | Honour and Cultural Norm in Elif Shafak "Honour" |
| 16 | Ayesha Ahmed | Terrorist's Daughter Traumatized by Terrorism: A Critical Study of the Shadow of the Crescent Moon. |
| 17 | Awais Bashir | Exit West and the Question of Absent Imperialism. |
| 18 | Wajeeha Arzoo | Postcolonial Feminist Reading of <i>And the World Changed</i> . |
| 19 | Tahir Ahmad | Nation & Alienation in Muneeza Shamsie's <i>Leaning Home</i> . |
| 20 | Hafsa Zafar | Mysticism for Millennials. An Analytical Study of Shafak's <i>Forty Rules of Love</i> |
| 21 | Faisal Iqbal | The Features World of Deams in <i>Alice in Wonderland</i> . |
| 22 | Muhammad Zubair Shad | The Study of Male Characters as a Part of Feminism in Daniyal Mohiyyuddin's <i>In Other Rooms Other Wonders</i> . |
| 23 | Khadija Asif | Plath's Feminism in <i>The Bell Jar</i> |
| 24 | Munazza Shaheen | Motif of Journey in <i>The Farewell to Arms</i> . |
| 25 | Mariam Rashid | Multidimensional Meanings of Paulo Coelho's "Adultery" |
| 26 | Muhammad Humayun Nisar | Psychological Trauma Affecting the Life of Basralsia in Tehmina Durrani's <i>Sorrow Times</i> . |
| 27 | Azhar Ali | Alienation Effects in Brecht's <i>Mother Courage and her Children</i> . |
| 28 | Aqsa Ali | Displacement of Bride in Bapsi Sidhwa's <i>the Bride</i> . |
| 29 | Ayesha Arshad | The Co-existence of Spiritual and Physical love in Elif Shafak's <i>Forty Rules of Love</i> . |



- A list of M.Phil Theses completed during the academic year (2015-17) & (2016-2018)

| | | |
|---|---------------------|---|
| 1 | Atifa Bint e Zia | Exploration of Cultural Spaces in Rafat's Poetry (1974-1883) |
| 2 | Maham Latif | Sexualisation of Culture: A Postfeminist Study of Selected Disney Animation |
| 3 | Tahira Aziz | Im (Migrants) Encountering the Dilemmas of Multicultural life in Moniza Alvi's Poetry |
| 4 | Saima Nawaz Cheema | Re/Imagining the Political Unconscious in Kiran Desai's Hullabaloo in the Guava Orchard (1998) and the Inheritance of Loss (2006) |
| 5 | Saba Naz | Women and Power: Representation of Muslim Women in Nadeem Aslam's Novels |
| 6 | Iqra Qamar | Ecological Resistance against Patriarchy: A Study of Environmental Response to Female Suppression in selected South Asian Fiction |
| 7 | Syeda Momina Masood | Queer Articulations of Desire and Anarchy in Pakistani Horror Cinema |
| 8 | Uzma Khan | Female Paradigms of Resistance in Jamaica Kincaid's Novels. |
| 9 | Mehwish Iram | Fetishism of Ideology: Marxist Overtones in Quratul Ain Haider's Transcreated Fiction |

○ **Academic Achievement**

- 28 students had passed their M.A. History
- 30 students had passed their M.A. Pakistan Studies
- 45 students had passed their M.Phil. in History
- 03 students had passed their Ph.D. in History

Students Completing their Ph.D

100 students are doing M.Phil and Ph. D from History Department as regular students.

- **Ph.D. Thesis Completed**

List of Ph.D. thesis completed during 2017-18.

| Sr. No. | Name | Topic |
|---------|------------------------|--|
| 1 | Dr. Qutab ul Haq | A History of Islamization in Pakistan 977-1993. A Reappraisal |
| 2 | Dr. Iram Naseer Ahmad | A History of Pakistan-China Relations 1973-2013: Reappraisal |
| 3 | Dr. Hafiz M. Ayyaz Gul | A History of Emotions: Muslim Community in the Colonial Punjab (1849-1947) |



▪ **M.Phil. Thesis Completed**

List of M.Phil. thesis completed during 2017-18

| Sr. No. | Name | Topic |
|---------|------------------|--|
| 1 | Fatima Khalid | The Formation and Working of First Constituent Assembly of Pakistan |
| 2 | Humera | Ch. Zahoor Elahi: His Political role in the History of Pakistan |
| 3 | Imran Hussain | Role of Parliament on Kashmir Issue From 1971 to 1999 |
| 4 | Memoona Tahira | Women Education in Pakistan: A Case Study of Musharraf Era |
| 5 | Sidra Jabeen | Orientalist Construction of Indian Muslim Women: Colonial Era |
| 6 | Mazhar Iqbal | Socio-Political History of Chiniot, (1947 to date) |
| 7 | Sajid Iqbal | Malik Ghulam Muhammad: As a Governor General of Pakistan: Reappraisal |
| 8 | Summan Saleem | A Comparative Study of Sir Fazl-i-Hussain and Sir Chhotu Ram |
| 9 | Fareeha Asghar | Sikh-Muslim Relations during Sikandar's Premiership in Punjab |
| 10 | Sahrish | Politics of opposition political parties: Study of Third Parliamentary Regime, 1988-1999 |
| 11 | Noor Islam | US Policy Towards South Asia: A Case Study of Pak-Afghan Relations during Musharraf Era |
| 12 | Assiya Naurin | Religious Pluarlism under the Great Mughals: A Case Study of Akbar (1556-1605) A.D. |
| 13 | Saira Ilyas | Life and Conditions of Women Under Colonial rule. (1850-1900) |
| 14 | Riffat Parveen | Impact of CPEC on Gilgit Baltistan |
| 15 | Faisal Murad | Formation and Working of Punjab Assembly (2008-2013) |
| 16 | Aieza Mumtaz | Fazl-i-Husain as a Muslim Leader |
| 17 | Rabia Amin | Pak-China Economic Corridor: A Study of its Impacts on Balochistan |
| 18 | M. Shahid Ashraf | Politics of Good Governance: A Case Study of Mian Shahbaz Sharif, 2008-2013 |
| 19 | Amna Latif | Life and Times of Attiya Fayzee |
| 20 | Sarvat Iqbal | Pak China Relations in the Light of CPEC |



| | | |
|----|-------------------------|--|
| 21 | Hafiz Muhammad Amir | Role of Pakistan Peoples Party in Punjab during the Movement of Restoration of Democracy (M.R.D.) |
| 22 | Maddasra Mahmood | Air Marshal Asghar Khan as a Political Leader |
| 23 | Muhammad Imran | A History of Visual Arts of Pakistan, 1947-2015 |
| 24 | M. Shoaib Madni | Justic Ameer Ali's Role in Politics |
| 25 | Taimoor Adil | A History of Violence in Pakistan, An Analysis (2001 to date) |
| 26 | Zohaib Hassan | Social History of Balochistan: Since Independence 1947 to till date |
| 27 | Noreen Fatima | Life and Conditions of the Working Classes in the Colonial Punjab (1857-1947) |
| 28 | Muhammad Tariq | Gwadar and Chabahar Ports: A Comparative Study |
| 29 | Arifa Siddique | Mughal State: A Study of its Formation and Structure |
| 30 | Muhammad Zeeshan Khalid | Party Politics in Pakistan: Role of Religious Parties in the Restoration of Democracy (1958-1969) |
| 31 | Javed Iqbal | Pak-China Strategic Partnership: Indian Responce 2001-2017 |
| 34 | Subika Batool | War on Terror in Pakistan: A Case Study of Malala Khan Yusufzai |
| 35 | Ruhma Merfud Muteal | Abdul Sitar Eidhi as a Philanthropist |
| 36 | Sana Iqbal | Socio-cultural History of Delhi Sultanate (1206-1526) |
| 37 | Samra Shehzadi | Role of Dr. Allama Muhammad Iqbal in Punjab Politics: A Critical Anylisis |
| 38 | Sara Rauf | The Sikh Politics in Punjab, 1919-1940: An Historical Perspective |
| 39 | Hina Kamal | Khawaja Nazimuddin as Governor General of Pakistan |
| 40 | Ayesha Jamil | Role of Sir Chhotu Ram for Peasentry Class in Colonial Punjab |
| 41 | Farooq Ahmad | Development of Legislative Institutions in Pakistan: A Study of Second Constitutional Assembly (1954-1958) |
| 42 | Moazzam Wasti | A History of Muslim Politics in India, (1936-1942): A Critical Re-Appraisal |
| 43 | Muhammad Sulman Munir | Origin and Development of the Concept of Imam Mehdi in Islam: An Historical Perspective. |
| 44 | Itazaz Hussain | Political Leadership and Mass Politics in Punjab: A Case Study of Jahangir Badar |
| 45 | Nabila Fatima | Socio Culture Impact of Bibi Pak Damn Shrine in Pakistan |



- **Foreign Academic Linkages**

The Department developed academic linkage with Punjab University and Northeastern University Qinhuangdao Joint-Supervision of the Doctoral Program in History would be materialized under this joint venture.

DEPARTMENT OF PHILOSOPHY

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- **Undergraduate and Postgraduate Programmes**

- BS Philosophy
- MA Philosophy

- **MS and PhD Programmes**

- MPhil Philosophy
- PhD Philosophy

- **Academic Achievements**

- In the academic session of 2017-18, the Department of Philosophy achieved several teaching and research milestones. In general, the Department published one research journal, revised curriculum and organised several lectures, seminars and talks on different topics.
- The Department of Philosophy organises Iqbal memorial lecture annually. This year's Iqbal memorial lecture was delivered by Professor Sajid Ali, formerly chairman of the Department, on the topic, "The Reconstruction of Religious Thought in Islam: A Historic Intellectual Achievement of Iqbal". Professor Shagufta Begum, the Chairperson organised the lecture while Professor Akram Shah, the retired professor of Iqbal Studies, presided over the lecture. Faculty members, students and many people from different factions of civil society attended the lecture.
- The Department published its journal entitled: Al-Hikmat: A Journal of Philosophy. In this 2018 number, faculty members of the Department contributed several papers.
- The Department celebrated the World Philosophy Day. The theme of this year's World Philosophy Day was "Building Peace in the Minds of Men and Women". In this regard, the Department arranged a lecture and a walk. Professor Sajid Ali and other faculty members of the Department, spoke to highlight the significance of peace in society. After the talks, a walk was made in which faculty members and students participated with placards and banners to impart the message of the day to civil society.
- For promoting good health and climate change, the Department organised sport galas and excursion tours in which both students and faculty members of the Department participated.



- To pay tribute to ex-chairmen and senior faculty members of the Department of Philosophy, the Department organised a meeting. Many old and recent Philosophy alumni attended the meeting. Professor Abdul Khaliq, Professor Absar Ahmad, Professor Naeem Ahmad, Professor Sajid Ali, Professor Abdul Hafeez, and Professor Ghazala Irfan shared their lifelong teaching and administrative experiences with students. It was an excellent get together to bridge the gap between old generation and new generation philosophers.
- In this academic session, Professor Niaz Ahmad Akhtar, the Vice Chancellor of the University, organised a meeting of PU Alumni Association. It was instructed each department to call their alumni in their respective departments, and then altogether joined PU alumni association in Faisal Auditorium. The Department of Philosophy invited its alumni in the Department, the prominent alumni of the Department of Philosophy include Professor Ghazala Irfan, Chair of Philosophy, FC College, Lahore, Mr Qamar Zaman Kaira, politician, Muhammad Aslam Sukharia, District Nazim, Pakpattan, Sardar Shafqat Hayat Baloch, Ex-MNA, and Col (R) Fateh Shair Khan.
- The Department of Philosophy has revised the scheme of studies for BS Philosophy and MA Philosophy programs, which have been approved from the Board of Studies in Philosophy and the Board of Faculty of Arts and Humanities, and the recommendations have been sent to the registrar office for the meeting of the Academic Council.

PAKISTAN STUDY CENTRE

Telephone (s): +92-42-99231148

Fax Number (s): +92-42-99231148

E-mail Address (s): director.psc@pu.edu.pk

The Pakistan Study Centre, University of the Punjab was established in 1981. The Centre has been working for following objectives:

- Publication of short and full length studies on Pakistan
- Holding of Seminars, Special Lectures, Conferences, in-house discussions on matters of national importance
- Promotion of academic and research relationship with other universities, colleges, Pakistan Study Centres and research institutions.

The main objective of the Centre is to promote and undertake research on themes relating to history, politics, foreign affairs, economy, culture and languages of Pakistan.

○ MS and PhD Programmes

- M. Phil. and Ph.D. (Pakistan Studies) programmes were launched by the Centre in 2005 and 2008 respectively.
- Twenty Nine (29) M. Phil. students were admitted in academic sessions 2017-18 Criteria for admission in both programmes set by HEC and Punjab University was strictly followed.



○ **Academic Achievements**

More than ten (10) scholars have been awarded M. Phi. Pakistan Studies degrees during the period under review.

○ **Foreign Academic Linkages**

Linkages has been established with foreign eminent academicians and consequently they have been visiting the Centre and delivered the lectures. These include:

- Seminar on " Nation, Narration, Borders: Representing National Identity in Pakistani Anglophone Literature." Dr. Daniela Vitolo, University of Naples "L'Orientale, Italy and Prof. Dr. Muhammad Iqbal Chawala, Dean, Faculty of Arts & Humanities, Chairman, Department of History & Pakistan Studies, University of the Punjab, Lahore.
- Seminar on CPEC: A Journey towards Peace & Prosperity on August 28, 2018, The Vice-Chancellor Punjab University Prof. Dr. Niaz Ahmad Akhtar were the president. The delegation from Jiangsu Normal University, China comprised of Prof. Dr. Sun Hongqi (Director of Pakistan Research Center), Prof. Zhang Shengzhen (Dean of the International College), Mr. Zhen Yutong, Deputy Dean of the International College and Professor Lou Zhengrong, Director of the Social Science Academy.

○ **Institutional Linkages**

The Centre has been exchanging publications with different national and international research organizations. Under the programme, the library of the Centre is receiving more than 20 research journals covering a vast field of subjects.

DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

Telephone (s): +92-42-35 29 38 58

E-mail Address (s): info.french@pu.edu.pk, chairperson.french@pu.edu.pk

○ **Graduate programme:** Honors with major in French

Successful Graduation of Second Batch of BS French: Another great achievement in the academics at the French department during 2018 is the successful graduation of its second batch of four years BS Honors programme. Ms Fizza Hammad remained the outstanding student throughout the 4 years of BS programme and was conferred Gold Medal for her academic excellence.

○ **Foreign academic linkages**

Continued affiliation with

- Alliance Française d' Islamabad
- Alliance Française de Lahore
- Embassy of France
- Collaboration in French studies, Teachers training programmes, and conferences etc.



○ **Honours & awards**

- Dr Saleha Nazeer and her Research team participated in 7th Invention to Innovation Summit 2018 – the only Department to participate from Social Sciences, Arts & Humanities
- The innovative research projects presented at the Summit focused upon the Socio economic development in Pakistan through various products, trainings and courses related to French Studies. The Research projects and the Translation work were developed with a view to link academics in the field of French with the national and international market & Industry.

○ **Institutional linkages**

- Lahore College for Women University, Lahore.
- Government Postgraduate College for Women, Chuna Mundi, Lahore.
- Aitchison College
- SYCAS

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

Telephone (s): 042-99233124, 042- 99233125

Fax Number (s): 042-35952993

E-mail Address (s): chairperson.dws@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- M.Sc Gender Studies
2 years Master Program
No. of seats: 50 (Morning and Replica Each)
Requirement: B.A/B.Sc/equivalent examination with 2nd Division.
- BS (Hons)
4 Years Program
Requirement: Intermediate or equivalent examinations (GCE, A level, ICS, I.Com)
No. of Seats: (50 Morning, 70 Self-Supporting)

○ **MS and PhD Programmes**

- Ph.D
Three years program
No. seats: (10 Morning and 10 Self-Supporting)
Requirement: M.Phil/MS in Social Sciences
- M.Phil Leading to Ph.D
2 years Program
No. of Seats: (20 Morning and 20 Self Supporting)
Requirement: Master in Social Sciences



- **Academic Achievements**
 - Journal of Gender & Development
 - Students Magazine: Intellectual Youth
 - Newsletter: Zeal
- **Institutional Linkages**
 - Ministry of Women Development
 - Directorate of Women Development, Punjab
 - Women Empowerment Group

DEPARTMENT OF POLITICAL SCIENCE

Telephone (s): +92-42-99231229
 Fax Number (s): +92-42-35838263
 E-mail Address (s): chairperson@polsc.pu.edu.pk

- **Undergraduate and Postgraduate Programs**
 - BS (Hons.) 4 Yrs. Program (Political Science)
 - M.A. Political Science
 - M.A. International Relations
 - M.A. Diplomacy & Strategic Studies
- **MS and Ph.D. Programs**
 - M.Phil. (Political Science) Regular & Self Supporting Program
 - M.Phil. (International Relations) Regular & Self Supporting Program
 - Ph.D. (Political Science) Regular & Self Supporting Program
 - Ph.D. (International Relations) Regular & Self Supporting Program

DEPARTMENT OF SOCIAL WORK

Telephone (s): +92-42-99231553
 Fax Number (s): +92-42-99230958
 E-mail Address (s): chairman.dsw@pu.edu.pk

- **Undergraduate and Postgraduate Programmes**

In the reporting period, the Department is offering M.Sc. Social Work Programme in Morning & Replica classes and MPhil Programme in Regular class. It has also initiated its BS (Social Work) Self Supporting Programme this year.
- **Institutional Linkages**

Department has linkages with the following organizations.

 - At national and international level:
 - Social Welfare & Bait-ul-Maal Department, Govt. of the Punjab
 - Child Protection & Welfare Bureau, Govt. of the Punjab
 - Ministry of Human Rights, Govt. of Pakistan
 - Special Education Department, Govt. of the Punjab



- Directorate General of Labour Welfare, Govt. of the Punjab
- Community World Services (CWS)
- AGAHE
- UNICEF
- SPO (Strengthening Participatory Organization)

INSTITUTE OF COMMUNICATION STUDIES

Telephone (s): +92-42-99230518, 99231225

Fax Number (s): +92-42-99231182

○ **Undergraduate and Postgraduate Programmes**

- BS (4-Year) Program

The Institute offers BS (4 Years) Communication Studies as Regular and Replica/Self-Supporting program.

- Master Programs:

The Institute offers M.Sc Communication Studies in following area which includes:

- M.Sc Communication Studies (Morning Program) with four specializations:
 - Communication Theory and Print Media
 - Public Relations and Advertising
 - Electronic Media (Radio & Television)
 - Digital Media
- M.Sc Communication Studies (Replica Program) with four specializations:
 - Communication Theory and Print Media
 - Public Relations and Advertising
 - Electronic Media (Radio & Television)
 - Digital Media
- M.Sc Communication Studies (Development Journalism) Evening Program
- M.Sc Communication Studies (Film and TV Production) Evening Program

○ **MS and PhD Programmes**

- M. Phil Communication Studies (Research Track)
- M. Phil Communication Studies (Professional Track)
- Ph. D Communication Studies

○ **Academic Achievements**

The students have achieved academic distinctions in various events. Their documentaries have been not only selected in national but also in international events.

○ **Honors and Awards**

The students have won different honors and awards on documentaries etc.

○ **Institutional Linkages**

The Institute of Communication Studies has linkages with various Television Channels, Newspapers, Public Relation Departments and Advertising Agencies.



INSTITUTE OF SOCIAL & CULTURAL STUDIES

Telephone (s): +92-42-99233126

Fax Number (s): +92-42-99232375

E-mail Address (s): director.iscs@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- BS (4 years) Sociology & Sociocultural Studies (Regular)
- BS (4 years) Sociology & Sociocultural Studies (Replica/Self-Supporting)
- M.Sc Sociology (Regular)
- M.Sc Sociology (Replica/Self-Supporting)
- M.Sc Development Studies (Regular)
- M.Sc Development Studies (Replica/Self-Supporting)
- M.Sc Population Sciences (MPS) (Replica/Self-Supporting)
- M.Sc Criminology & Security Studies (Evening/Self-Supporting)

○ **M.Phil. and PhD Programmes**

- M.Phil Sociology (Regular)
- M.Phil Sociology (Replica)
- M.Phil Education Policy & Development (Regular)
- M.Phil Education Policy & Development (Replica)
- M.Phil Public Health (Evening)
- Ph.D Sociology
- Ph.D Public Health (Evening)

○ **Academic Achievements**

The ISCS has started a new program of Split PhD with the collaboration of Punjab Higher Education Commission (PHEC), awarded 5 scholarships to the students and they have opportunity of 1 year study in abroad.

○ **Foreign Academic Linkages**

- Linkages with Belfield University, Germany
- Student Exchange with University of Erfurt, Germany.

○ **Honors and Awards**

Prof. Dr. Muhammad Zakria Zakar, Professor at Institute of Social & Cultural Studies, awarded duties as Vice Chancellor, University of Okara, on 13th August, 2018 for the period of 4 years by the Govt. of Punjab, Pakistan.

○ **Institutional Linkages**

- National Centre for Resettlement and Rehabilitation in Collaboration with World Bank.
- Centre for Peace and Security Studies
- Sughra Begum Center for Educational Policy & Development in collaboration with PEP Foundation in New York, USA.
- Day Care Centre with the collaboration of Women Development Department. Government of Punjab.



Faculty of Commerce

HAILEY COLLEGE OF BANKING & FINANCE

Telephone (s): +92-42-99213791-93

Fax Number (s): +92-42-99213796

E-mail Address (s): principal@puhcbf@pu.edu.pk

○ **Undergraduate and Postgraduates Programmes**

▪ Undergraduate Programs

BBA (Hons.) – Four Year Program in the Morning on Regular basis in the following disciplines:

(a) Banking & Finance (b) Insurance & Risk Management

▪ Postgraduate Programs:

MBA Program 3.5 Years Regular Morning & Evening Program after 14 years of education in the following disciplines:

(a) Banking & Finance (b) Insurance & Risk Management

○ **MS and Ph.D Programs**

MS / MBA Programs to students after their BBA (4-Years) Program in the following disciplines:

(a) Banking & Finance (b) Insurance & Risk Management

These are regular programs being offered in the morning. At present we are not offering any Ph.D Program

○ **Academic Achievements**

Our degree programs are tailored to meet needs of Banking, Insurance Industry and Corporate World. We have earned reputation on account of performance of our students in the field of Banking, Finance, Insurance & Risk Management. Financial sector recognizes and acknowledges the potential, excellence, practical knowledge and professionalism of our graduates. They are rendering services in Corporate Sector, Banks, Financial Institutions and Insurance Sector both at home and abroad. Our qualified students are also serving the Civil Services of Pakistan besides public sector entities including Excise & Taxation AG Office, Civil Secretariat, Police, Armed Forces and LDA etc.

○ **Foreign Academic Linkages:**

We do not have any formal Academic Linkages, However, transfer credit are being accepted by Universities in Australia, UK and USA.

○ **Institutional Linkages:**

We have strong Institutional Linkage with Lahore Insurance Institute (LII), Lahore. They are facilitating us in curriculum development and providing faculty for teaching. We are also in liaison with Banking & Financial Institutions Asset Management Companies, Lahore Chapter of Pakistan Stock Exchange and Forex Companies for imparting Knowledge on practical aspects. The College has signed MOU with reputed organization also to accomplish common objective.



HAILEY COLLEGE OF COMMERCE

Telephone (s): +92-42-99230325, 99230327, 99231273, 99231804

Fax Number (s): +92-42-99231274

E-mail Address (s): principal@hcc.pu.edu.pk

- **Undergraduate and Postgraduate Programmes**

- B.Com. Hons. (Semester System): 04 years Programme
- M.Com (Semester System): 3 ½ years Programme after 14 years schooling
- D.C.M.A: Post Graduate Diploma in Cost and Management Accounting
- DED: Post Graduate Diploma in Entrepreneurship

- **MS and PhD Programmes**

- M.Com (Semester System): 1 ½ years Programme after 16 years schooling
- M.Phill (Semester System) in Commerce
- Ph.D (Semester System) in Commerce

- **Academic Achievement**

NBEAC 2014-2016

- **Institutional Linkages**

With ACCA and Ora Tech established Negotiation with ICAP & ICMA

Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

Telephone (s): +92-42-9231167

Fax Number (s): +92-42-9230478

E-mail Address (s): chairman@eco.pu.edu.pk

- **Under Graduate and Post Graduate Degree Programs**

- Bachelor of Economics (Regular/Self-Supporting) is a four-year degree program that provides undergraduate training in both theoretical and applied aspects of modern economics. This program was initiated in 2017 to cater increasing demand of 4-years BS degree program in economics given that HEC has announced phasing out of conventional two year B.A. /B.Sc. program.
- M.Sc. Economics (Regular/Self-Supporting) is a two-year program that prepares students for advance studies in economics and disseminates comprehensive knowledge focused at applied and quantitative economics. The applied courses (that require research work) taught in this program distinguish it from M.A. (Economics) offered in other institutions.



- MBEcon (Self-Supporting) is a two-year program that aimed at producing entrepreneurial class that will help in promoting industrial growth of the economy. The participants of the program would be trained to work as professional economists, managers, financial analysts, bankers and business executives.
- M.Phil. Economics (Morning/Self-Supporting) is a two year program and its successful graduates have prosperous professional careers. Our students are not just competent in their core area of study but also able to ascertain and synthesize existing knowledge for undertaking empirical research on economic issues in an effective manner. During program they acquire a broad knowledge base aiming at bringing the students to global research frontier.
- **Ph.D. Program**
The most prestigious program of the department is Ph.D. (Economics). This program aims to fill the professional vacuum of social scientists in Pakistan as expatriation of economists and researchers is seen to catch up attractive jobs in foreign countries. Our Ph.D. program enables students for notable contributions in the field of economics and equips them with necessary empirical skills which are required for policy oriented research. The Ph.D. program emphasizes full time course work/research. Part-time course work or research is not permissible.
- Post Graduate Diploma in Applied Economics (PGDAE) is a rigorous one year evening program in Applied Economics. It is useful for those who could not continue their studies after graduation and now want to do M.Sc. Economics and MBEcon. The Department of Economics has proposed some additional benefits for Diploma holders in the form of special seats in M.Sc. Economics morning and replica programs, as well as, in MBEcon program.
- **Academic Achievements**
Preparation of four years BS Economics curriculum in line with HEC guidelines, got it approved from various bodies and successfully launched this program in 2017.
- **Foreign Academic Linkages**
Foreign academic linkages have become significant for institutions who think and act globally. In order to promote mobility of doctoral students with the purpose of strengthening scientific cooperation between their institutions, an agreement was made between **Lille 1 University, France and University of the Punjab, Pakistan** to prepare a co-supervised Ph.D. thesis in Economics of Mr. Maqsood Aslam (doctoral student). The expected duration of research work is from October 2016 – October 2019. The two thesis supervisors appointed to take part in the co-supervision of the thesis are:
 - At Lille 1 University: Etienne FARVAQUE
 - At University of the Punjab: Muhammad Azmat Hayat



DEPARTMENT OF INFORMATION MANAGEMENT

Telephone (s): +92-42-99231224

E-mail Address (s): chairperson.im@pu.edu.pk

○ **Undergraduate and Postgraduate Programs**

There is a morning and a replica Masters in Information Management (MIM) programs. In 2018 forty students got their Master's degree.

○ **MS and PhD Programs**

The Department also offers M.Phil and PhD programs. In 2018 four students got their M.Phil and two students got Ph.D degree.

○ **Institutional Linkages**

The Department has become the first institution of Pakistan to get the membership of CiSAP (Consortium of iSchools Asia Pacific), and got institutional membership of Association for Library and Information Science Education (ALISE).

INSTITUTE OF ADMINISTRATIVE SCIENCES

Telephone (s): 92-42-99231164, 99231165

E-mail Address (s): director.ias@pu.edu.pk

Academic Activities

Studies at the Institute of Administrative Sciences are organized under the semester system. Students are offered summer internship and counseling, referrals & placement services, a well-equipped library and computer laboratory. Learner centered teaching, quality research by faculty as well as by students, comprehensive examinations, a strong link with employers, all contribute to the quality of education at IAS. A distinct feature of the Institute is its competent and committed faculty comprising of over twenty five permanent members.

IAS is a modern, vibrant and innovative institute that offers a wide range of career oriented as well as socially required and globally relevant academic programs from BS in Management to PhD in Management. Our academic portfolio consists of the following programs:

- BS in Management (HR, Marketing, Finance, Public Management & Supply chain) - Offered as Regular and Self Support Program
- Master of Human Resource Management (Offered as Regular, Self Support and Executive/ Evening Program)
- Master of Marketing (Offered as Executive/ Evening Program)
- Master of Health Administration (Offered as Executive/ Evening Program)
- Master of Science in Health Administration (Offered as Executive/ Evening Program)
- Master of Public Administration (18 years of Education, Offered as Regular and Executive/ Self Support Program)
- Master of Science in Human Resource Management Program Offered as Regular, Self Support & Executive/Evening Program)
- MPhil Management (Regular Program)
- PhD Administrative Sciences (Management) (Regular Program)



Our faculty and staff are ready to be partners in the process of learning and personal development of students in their studies and professional development. We are committed to providing rewarding educational experience which is the hallmark of our Institute. In the past few years, we have made major additions in our undergraduate and graduate degree programs – by introducing the element of research and practical assignments/ projects in almost all the courses offered. We have added sixteen new journals and approximately three hundred books of different authors and topics in the department library to facilitate students in their research. Our talented and dynamic faculty is better educated and trained to provide individual attention and a life changing development experience. Furthermore, we continue to work for the up gradation of our faculty by providing them research opportunities at various foreign universities and some of them are already in a process to earn doctorate from abroad which will further add to the knowledge base of the Institute and stimulate future research opportunities amongst the student body.

INSTITUTE OF BUSINESS ADMINISTRATION

Telephone (s): +92-42-99231257-58

Fax Number (s): +92-42-99231259

E-mail Address (s): director.iba@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

Currently, the following undergraduate and postgraduate programs are being offered by this institute

- BBA (Hons) (Morning/Afternoon) Program
- MBA 1.5 Years (Morning) Program
- MBA 3.5 Years (Afternoon) Program
- MBA (Evening) Program
- PGD (Evening) Program

○ **MS and PhD Programmes**

IBA offered M.Phil in Business Administration during the reporting period and there were 20 seats for this program. However, admissions in Ph.D in Business Administration Program were not offered during the reported period.

○ **Academic Achievements**

Institute of Business Administration (IBA) traces its history back to 1972 as a department. Later on, in 1987, the department was upgraded to the status of Institute. This was a great mile-stone in the history of the University, as IBA was the second institute in Pakistan where teaching of business administration was being offered. The Institute was shifted to its existing building in 1994. One year Post Graduate Diploma in Business Administration was started in 1992. To impart management education to in-service executives, MBA evening was started in 1995. In 2005, BBA (Hons) was also started for high-caliber under-graduate students who are both academically able and exhibit strong managerial potential. BBA (Hons) is offered on regular (morning) and self-support (afternoon) basis. In 2009, MBA (One and Half years) was also started for IBA-PU BBA (Hons) graduates and the program is offered



on regular basis. Aimed at developing advanced competencies in theorizing and research, IBA started M.Phil in Business Administration and Ph.D in Business Administration programs in 2014. In order to cater to the growing needs of the corporate sector, IBA launched MBA 3.5 years self-supporting program (equivalent to MS/M.Phil degree) from session 2016 for candidates having 14 years educations. To-date, IBA has produced 35 M. Phil, 456 MBA (1.5) Years, 5049 MBAs, 948 BBAs, 1236 PGDs and 9 ABMs and they are making valuable services at both national and international level. The detail is given as under:-

| Sr. No. | Program | No. of Students | | |
|---------|---|-----------------|-------------------------|---------|
| | | Previous | During reporting period | To-date |
| 1 | M. Phil | 26 | 9 | 35 |
| 2 | MBA 1.5 Years (Morning) | 369 | 58 | 427 |
| 3 | MBA 1.5 Years (Afternoon) (presently not offered) | 29 | - | 29 |
| 4 | MBA (Morning) (presently not offered) | 2452 | - | 2452 |
| 5 | MBA (Evening) | 2482 | 115 | 2597 |
| 6 | BBA Hons (Morning) | 400 | 55 | 455 |
| 7 | BBA Hons (Afternoon) | 444 | 49 | 493 |
| 8 | PGD (Evening) | 1216 | 20 | 1236 |
| 9 | ABM (Evening) (presently not offered) | 9 | - | 9 |

- Number of permanent/contract faculty members

| Sr. No. | Post | Nos. |
|---------|---------------------|------|
| 1 | Assistant Professor | 12 |
| 2 | Lecturer | 4 |

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

Telephone (s): +92-42-99230825-6

Fax Number (s): +92(42)99230557

E-mail Address (s): director@ibitpu.edu.pk

Web Site: www.ibitpu.edu.pk

The Institute is running two programs BBIT (Hon.) and MBIT (via BBIT). IBIT has 687 students enrolled out of which 478 are in BBIT-Hon. and 55 in MBIT via BBIT program. The detail of enrolled students in Fall Semester 2016 is given below:

- BBIT (Hon.) degree consists of 130 credit hours. It is 4 years full time study program
- MBIT (via BBIT) degree consists of 36 credit hours. It is one and a half year full time study program with 6 credit hours thesis. This degree is equivalent to MS/MPhil according to HEC road-map. To be eligible for the MBIT (via BBIT) program, a candidate must have BBIT (Hon.) degree from BBIT.



Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

Telephone (s): +92-42-99230211

Fax Number (s): +92-42-99230211

Undergraduate and Postgraduate Programmes

Master in Special Education

MS and PhD Programmes

- M.Phil in Special Education
- Ph.D in Special Education

○ Honours and Awards

Dr. Humara Bano received a Gold Medal from Idera-e-Taleem-o-Agahi Islamabad

○ Institutional Links

The department is linked with Directorate of Staff Development (DSD) for the training of in-service teachers in inclusive education. It is also in liaison with Rising Sun Institute for Children with Mental Retardation, Amin Maktab Centre for Children with mental Retardation, Child Welfare Centre for Mentally Challenged Children, Hamza Foundation Academy of the Deaf, and Punjab Public Service Commission.

INSTITUTE OF EDUCATION AND RESEARCH

Telephone (s): +92-42-99231263/5

Fax Number (s): +92-42-35864004

E-mail Address (s): director.ier@pu.edu.pk

○ Undergraduate and Postgraduate Programmes

- M.A. Education Elementary (2 years)
- M.A. Education Secondary (2 years)
- M. A. Education Islamic (2 years)
- M. A. Early Childhood Education (2 years)
- M.A. English Language Teaching & Linguistics (2 years)
- Master of Business Education (M.B.E) (2 years)
- Master of Science Education (M.S.Ed.) (2 years)
- Master of Technology Education (M.T.E.) (2 years)
- Master of Educational Research & Assessment (2 years)
- Master of Education (M.Ed.) (Regular) (1 year)
- Master of Education (M.Ed.) (Evening) (1 year)
- B.Ed. (Hons) Elementary (4 years)
- B.S.Ed (Hons) (4 years)



- **MS/ PhD Programmes**

- M. Phil Education (2 years)
- Ph.D in Education (5 years)

- **Academic Achievements**

This brief report provides information pertaining to the academic activities at IER during the period 01-10-2017 to 30-09-2018. During this period 657 students were enrolled in Bachelor degree programmes, 1326 students were enrolled in all master degree programs and 398 students in M.Phil and in Ph.D 68. During this period 925 completed their Master Degrees, 70 M.Phil and 4 students were awarded Ph.D Degree. In this period 471 books and 8 Foreign Research Journals were added in the library. There are total 41 faculty members teaching in the IER.

- **Foreign Academic Linkages**

Signing of MOU with Foreign University: Institutes of Education and Research, University of the Punjab and University of Education, Hong Kong has signed MOU for academic collaboration to strengthen mutual understanding to foster friendly cooperation and to promote academic collaboration and exchange faculty members and research personnel, academic and administrative collaborative students and staff, publication and to organize joint conferences, seminar and academic meetings. The ceremony was held in Vice-Chancellors' office University of the Punjab, Lahore. Prof. Dr. Tai-Lok Lui Vice-President of the Education University of Hong Kong and Prof. Dr. Muhammad Zakria Zakar, Vice-Chancellor, University of the Punjab signed the MOU in presence of Director IER and Dean, Faculty of Education on March 19, 2018.

Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

Telephone (s): +92-42-99239504, 35952911

Fax Number (s): +92-42-99231159

E-mail Address (s): coaltechnology@yahoo.com, director.cct@pu.edu.pk

- **Postgraduate Programmes**

M. Sc. Coal Technology (Regular Morning Programme)

- **MS and Ph. D. Programmes**

M.Phil Coal Technology (Self-supporting Evening Programme)

M.Sc. (Engg.) Energy & Environmental Engineering (Self-Supporting Evening Programme)

- **Honours and Awards**

7th Invention to Innovation Summit 2018 held on 07-03-2018 at Innovation Summit, University of the Punjab



DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

Telephone (s): +92-42-99230807

E-mail Address (s): chairman.pet.ceet@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- Currently no undergraduate program is running in the department however department has planned to start four years B.Sc Engineering Program in relevant engineering discipline very soon.
- Department and faculty is working hard and making no stone unturned in this perspective to start these graduate programs. Initial work has been started for the formation of course work as per rules and regulations of Higher Education Commission (HEC) and Pakistan Engineering Council (PEC)

○ **MS and Ph.D Programme: Yes**

- M.Phil Polymer Technology (Self Supporting Evening Programme) 2 Years
Our running M.Phil programme has following activities
 - Regular lectures
 - Labs
 - Mid term and final term papers
 - Quizzes
 - Presentations during the classes on exclusive topics related to the subject
 - Research Thesis
 - Research Motivation
 - Knowledge of state of art of modern research equipments
 - Publications in international high impact factor journals
- Ph.D Polymer Technology (Morning Regular Programme)
 - One year (Two semester) exclusive course work of advance levels
 - Regular classes Lectures
 - Mid-term and final term papers
 - Quizzes
 - Regular presentations during the classes on exclusive topics related to the subject
 - Knowledge of state of the art research equipments
 - Proper presentations and defence of synopsis
 - Approval of synopsis from Departmental Doctoral Program Coordination Committee (DDPC)
 - Approval of synopsis from Advance Study and Research Board (ASRB) University of the Punjab
 - Startup of research work with regular reporting of the student to the supervisor
 - Seminars on research topics
 - Full time research work on projects of applied nature



○ **Academic Achievements**

- In 2017-18 department successfully continued M.Phil Polymer Technology Programme. This interdisciplinary program is providing education to multiple sector of students regarding Polymer Engineering and Science.
- In 2018, third session of Ph.D Polymer Technology has also started and 11 students were taken on board.
- 16 research paper are published in 2017-18 by faculty member and students.
- Approximately 10 projects are approved for research and development of department in which students are also involved for working and learning research activities.
- Research thesis of students are continued and monitored exclusively.
- Constituted DDPC played active role during the year 2017-18 for its functioning especially regarding Ph.D working. A number of meetings of DDPC were arranged and sample draft for Ph.D synopsis is finalized. This exclusive effort was done in order to harmonize the synopsis of the students regarding its design, line spacing, title page and contents; which is also the demand of Doctoral Program Coordination Committee (DPCC) of PU.
- On the basis of this working a large number of students submitted their synopsis which they have defended in DDPC meeting.
- These synopses after corrections and recommendations of DDPC were then forwarded to Doctoral Program Coordination Committee (DPCC) and later on for Advance Study and Research Board (ASRB) of University of the Punjab for final approval of supervisors and topic.
- As a result 13 synopses have been approved in ASRB during the year 2017-18 and now students are continuing their work on their respective research topics.
- Strong efforts are made in adopting and developing new technology for teaching, experimentation and research like use of research software and use of multiple digital analytical techniques for analysis.
- Awareness was created amongst the student for advanced characterization techniques and use of high class research instruments which is the hour the need for high class research.
- By adopting new methods and advanced working modes by the teachers; capabilities of students for polymer/material synthesis and characterization has been raised.
- In addition to the regular classes, additional lectures are given to for conduction of research and training is provided to work independently as well as with other in multidisciplinary teams.

○ **Foreign Academic Linkages**

Foreign Academic Linkages has been initiated with foreign universities as listed below:

- Department of Chemical Engineering University of Malaysia Sarawak UNIMAS
- University of North Carolina USA Textile Engineering Bio Textiles
- Chemical Engineering, Polymers, Materials Engineering and Chemistry, Lehigh University USA.
- School of Textile Engineering, Donghua University, Shanghai, China.
- Department of Agricultural, Food & Nutritional Science University of Alberta Canada



- James Graham Brown Cancer Center, University of Louisville, Kentucky USA.
- Department of Chemical Engineering, Biotechnology and Environmental Tech University of Southern Denmark
- Technische Universitat Graz
- WR Grace, Cytec and Mallard Creek polymers and The Lewis Chemical Company. USA
- **Honours and Awards**

Won Punjab University Cash Award for Technology (POSTER) cash prize of Rs. 10,000/- in 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018

 - Won Chemistry Technology Award of cash prize of Rs. 20,000/- in 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018
 - Won Technology Award for Super Absorbent Hydrogels for anti-desertification Applications in 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018
 - Won Technology Award for Development of Woven Fabric for Medical Textile in 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018
 - Won Technology award for Chitosan / PVA blended membranes for RO performance crosslinked with TEOS in 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018
 - Won Best Poster Award for Synthesis of Biopolymer based Crosslinked Biodegradable Thin Films for Packaging Application using Mint and Grapefruit Peel Extraction 7th Invention to Innovation Summit 2018 Punjab University Lahore. March 06-07 2018
- **Institutional Linkages (National Level)**

Universities and R&D Organizations

Department already working with a number of institutions. These link ages are even made stronger by executing joint research activities with other universities and department. List is as follows:

 - Institute of Chemistry PU Lahore
 - Government College University (GCU), Lahore
 - Government College University (GCU), Faisalabad
 - National University of Science and Technology (NUST), Islamabad
 - Quaid-e-Azam University, Islamabad
 - Centre for Solid State Physics PU, Lahore
 - Demont Montessori College of Dentistry, Lahore
 - Bahaudin Zakria University (BZU), Multan
 - University of Engineering & Technology (UET), Lahore
 - IRCBM Comsats Lahore

Industries

Since beginning, department is working in coordination with a number of polymer industries. In 2017-18 these research collaborations are even made stronger.

 - Power chemicals, Faisalabad
 - Anwar Khawaja Industries



Two MoU has been signed with industries during the year 2017-18 for joint funded research projects with

- Reliance polymer industries, Lahore
- Shafi Reso Chem Industries, Lahore

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

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○ **Undergraduate and Postgraduate Programmes**

The Institute of Chemical Engineering and Technology is a pioneer Institute in the field of chemical engineering and provides broad-based Chemical Engineering programs resulting in B.Sc. Engineering, M.S. Engineering, and PhD degrees. The undergraduate and post graduate programs at the Institute prepare students for profession in chemical engineering-an exciting and challenging profession that combines the principles of the physical and chemical sciences with the discipline of engineering to solve technological problems using modern tools and provide effective service to society. Institute also contributes towards continual professional development of its graduates for which Continual Professional Development Cell (CPDC) is established. The role of CPDC is to develop competence and ability of engineers for the application of theoretical knowledge to practical situations and to evolve innovative solutions to real life problems while adhering to professional ethics and acquisition of a broader understating of their obligations to society. The graduate engineers participate in the continual development of new processes and new products that form the basis of much of the manufacturing segment of the global economy.

○ **MS and PhD Programmes**

Post graduate programs of M.Sc. and PhD Chemical Engineering provides opportunity for graduates for world-class research in renewable energy, co-combustion of coal and biomass, biodiesel, catalysis, polymers, rheology, material sciences, fluid dynamics, membrane technology, reaction engineering and filtration. Our laboratory facilities support innovative experimental work and are in line with industrial applications.

The following postgraduate courses are being offered at the Institute.

- M.Sc. (Engg.) Chemical Engineering
- PhD (Engg.) Chemical Engineering

○ **Academic Achievements**

The institute has a glorious history of service to the chemical and process industry in the country and abroad. The alumni of the Institute have contributed significantly to the industrial growth and economic development of the country by helping in the design, construction, commissioning, operation and management of many important chemical plants, petroleum refineries and a number of allied industrial units. They are holding highly



responsible positions in Education, Pakistan Atomic Energy Commission, Pakistan Council of Scientific and Industrial Research, Chemical and Process Industries both in the private and public sector, Defense Organizations, Universities and Governmental Departments.

The institute is home for more than thirty faculty members and approximately five hundred students. Institute's library is adorned with more than 35000 titles on chemical engineering and general sciences. Institute has also subscribed various international and national research journals. Institute has latest and state of the art computer laboratory having more than 40 computers. Additional twenty computers are installed in library to provide internet facility to the students.

The institute regularly organizes trainings, workshops, symposia and conferences. Recently 3rd International Conference on Engineering Sciences on December, 2017 was organized at the Institute in which different presenter in the engineering field from all over the Pakistan has presented their research. Many speakers were invited from Industry to highlight the issues that Pakistan industries are facing at the moment. This way a good industrial liaison has been created with the Institute and hopefully future research of Institute will address the industrial issues as well. Industry and academics highly appreciated these activities.

A Continual Professional Development Cell (CPDC) is established at the Institute level which provides training and development courses for fresh as well as employed engineers. Recently following courses were offered at the forum of CPDC:

- Aspen / Hysys for Chemical Engineers
- Sustainable Environmental Production
- Communication Skills Development

The institute has a tradition to invite the leading organizations at the premises of the institute for recruitment of young engineers. More than 15 process units conducted their recruitment process at the institute in the current fiscal year. Some of major recruiters are Engro Fertilizer, Nestle.

The leadership at the Institute of Chemical Engineering and Technology is striving to provide excellent learning, research and co-curricular facilities. The faculty and students of the institute have access to many educational resources, as well as opportunities for both basic and applied research. The class rooms, laboratories, conference room, offices and building are upgraded to provide conducive environment to students, faculty and staff.

○ **Foreign Academic Linkages**

Although a few MOUs have been signed with different universities at university level, an MOU has been signed with Universiti Teknologi Petronas and Institute of Chemical Engineering and Technology.

○ **Honours and Awards**

Many alumni of this Institute has been decorated with Sitara-e-Imtiaz Pakistan award for their over whelming contributions in the field of Education.



○ **Institutional Linkages**

- The Institute has a strong linkage with the industry, public and private sector institutions including SNGPL, PCSIR Laboratories, Atomic Energy Commission, PSQCA, National University of Sciences and Technology (NUST) Islamabad, NFC IET, NFC IFR, University of Engineering & Technology (UET) Lahore to share existing facilities.
- Recently an MOU is being prepared to be signed between Institute of Chemical Engineering and Technology and Brighto Paints.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

Telephone (s): +92-42-99230084-85

E-mail Address (s): director.iqtm@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- 4 years BSc Industrial Engineering & Management (IEM) and
- 2 years MSc Quality & Performance Management (Q&PM)

○ **MS and PhD Programmes**

- 2 years MS Total Quality Management (TQM)
- 2 years MS Industrial Engineering & Management (IEM)
- 3 years PhD Total Quality Management (TQM)

SKILL DEVELOPMENT CENTRE

Telephone (s): +92-42-99230083-2

E-mail Address (s): info.sdc@pu.edu.pk

Following are the courses which were being offered in the year 2017 to 2018.

| Course Title | Category |
|---|------------------------|
| Lean Six Sigma (Green & Black Belt) | Operational Excellence |
| Certified Project Management Professional | Operational Excellence |
| Supply Chain Management | Operational Excellence |
| Enterprise Resource Planning (Supply Chain, Accounting, Finance & HR) | Operational Excellence |
| TRIZ Methodology For Innovation | Operational Excellence |
| Certified Hr Professional | Operational Excellence |
| Certified Quality Professional | Operational Excellence |
| Certified Health & Safety Professional | Operational Excellence |
| Primavera P6 Professional | Operational Excellence |
| Business Accounting Softwares (Peachtree, Quickbooks, Tally) | Operational Excellence |
| Social Media Marketing | Marketing & Sales |
| Search Engine Optimization | Marketing & Sales |
| Customer Relationship Management (CRM) | Marketing & Sales |
| Advertising | Marketing & Sales |
| Public Relation (PR) | Marketing & Sales |
| Event Planning | Marketing & Sales |
| Strategic Marketing Management | Strategic Management |



| | |
|---|------------------------|
| Tax Management (Income Tax And Sales Tax) | Finance & Accounting |
| Programming (Visual Basic, Asp. Net, Java, Android And Mobile Applications) | Information Technology |
| Microsoft Office Management | Information Technology |
| Graphic Designing | Information Technology |
| Web Designing & Development | Information Technology |
| Spoken English | Language Program |
| IELTS (Preparation) | Language Program |
| Academic Writing | Language Program |
| Web Engineering | Technical Excellence |
| SPSS (Data Analysis By Using SPSS) | Technical Excellence |
| Data Base (Oracle, SQL, Server) | Technical Excellence |
| Game Designing | Technical Excellence |
| Auto Cad | Mechanical Engineering |
| Personal Leadership | Managerial Skills |
| Time Management & Decision Making | Managerial Skills |
| Image Make Over | Personal Development |
| Problem Solving & Decision Making | Personal Development |
| Introduction to Psychology | Interest Based |
| Interior Designing | Interest Based |
| Professional Photography & Film Making | Interest Based |

Faculty of Islamic Studies

INSTITUTE OF ISLAMIC STUDIES

Telephone (s): +92-42-99231232

E-mail Address (s): director.is@pu.edu.pk

- **Postgraduate Programmes**
 - BS Islamic Studies (Specialized World Religion)
 - M.A. Islamic Studies Programmes is running successfully in the department.
- **M.Phil and PhD Programmes**
 - Three M. Phil. Programmes (One Regular and Two Self-supporting) and Ph.D. Programmes in Islamic Studies are successfully running in the department.
- **Academic Achievements**
 - Three students of department won positions in essay competition of Ministry of Religious Affairs
- **Honours and Awards**
 - National Research Awards January 2017 was awarded to Dr. Shahida Parvee, Associate Professores.



SHEIKH ZAYED ISLAMIC CENTRE

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Sheikh Zayed Islamic Centre is on the way to rapid advancements in its academic and administrative spheres. Three degree programmes i.e. B.S. (four years) Islamic Studies, M.Phil. Islamic studies and Ph.D. Islamic Studies are being run by the Centre. At M.Phil. level, research projects are allotted keeping in view the current issues in the field of Islamic Studies. Sheikh Zayed Islamic Centre has its own library with 16374 books which contains primary sources of Quranic Sciences, Hadith, Fiqh and Islamic History. Sheikh Zayed Islamic Centre has a well-established computer lab. with **40** (2017-18) PCs and a Language Lab. with capacity of 30 seats.

○ **Undergraduate and Postgraduate Programmes**

▪ BS Islamic Studies

127 students were admitted in BS Islamic Studies and 71 students passed out.

○ **MS and PhD Programmes**

▪ M.Phil. Islamic Studies

30 students were admitted in M.Phil. Islamic Studies and 26 students passed out.

▪ Ph.D. Islamic Studies

15 students admitted in Ph.D. Islamic Studies and 14 Ph.D. scholars managed to get the degree of Ph.D Islamic Studies in the year 2017-18.

○ **Honours and Awards**

The Directorate of student Affairs with the collaboration of NAB Lahore organized the following competitions for the Observance & Reporting of the Anti-Corruption Awareness Activities – Culmination. The theme of these competitions was Character Building and Anti-Corruption. The following students of Sheikh Zayed Islamic Centre participated and won the 1st prizes.

Name of Student : Hafiza Rameela Ahmed, 1602-F

Topic : کردار سازی اور بد عنوانی کا خاتمہ

Position : 1st

Competition : Essay Writing Competition

Date : 05-08-2018

Institution : Punjab University Inter Department Competition

Name of Student : Maryam Usaid, 1710-F

Position : 1st

Competition : Painting Competition

Date : 08-08-2018

Institution : Punjab University Inter Department Competition



Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

Telephone (s): +92-42-99231275-99231276

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E-mail Address (s): principal@law.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- LL.B (Hons.)
- LL.B 3 Years
- D.T.L
- D.L.L
- D.I.P.L
- D.E.L
- D.B.L
- D.I.T.L
- DCLP
- D.F.S.L.

○ **MS and Ph.D Programmes**

- LL.M
- Ph.D

○ **Institutional Linkages**

- District Bar Council
- High Court Bar
- Court Bar
- Punjab Judicial Academy
- Trade Development Authority
- Punjab Environment Department
- Sociology Department (P.U)

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

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E-mail Address (s): info.ccpsy@pu.edu.pk

○ **Undergraduate and Postgraduate Programme**

- BS (4 Years) in Clinical Psychology
- Advanced Diploma in Clinical Psychology (Morning & Replica)



○ **MS and Ph.D. Programmes**

- Ph.D. in Clinical Psychology
- MS in Clinical Psychology
- MS in Speech Language Pathology

○ **Academic Achievements**

- BS (4 Years) in Clinical Psychology: 31 students completed their degree
- Advanced Diploma in Clinical Psychology: 18 students completed their diploma
- MS Programme in Clinical Psychology: 13 students completed their degree
- MS Programme in Speech Language Pathology: 16 students completed their degree
- Ph.D. in Clinical Psychology: 02 students completed their degree

○ **Institutional Linkages**

Professional linkages with the following psychiatric services providing institutes are well established to provide trainee clinical psychologists an opportunity to learn through practical implication of knowledge:

- Services Hospital, Lahore.
- Mayo Hospital, Lahore.
- Sir Ganga Ram Hospital, Lahore.
- Jinnah Hospital, Lahore.
- General Hospital, Lahore.
- Punjab Institute of Mental Health, Lahore.
- Amin Maktab, Lahore.
- Shadab Training Institute, Lahore.
- Child Protection Bureau, Lahore.
- Social Welfare Department, Govt. of Punjab, Lahore.
- Dar-ul-Sakoon,
- Dar-ul-Falah,
- Chaman, Institute for Special Children.
- Turning Point, Lahore.
- Fountain House, Lahore.
- Fatima Memorial Hospital, Lahore.

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

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○ **MS and Ph.D Programmes**

- M.Phil and Ph.D Programme in Molecular Biology



○ **Academic Achievements**

In 2017, CEMB produced forty-five M.Phil and ten Ph.D scholars (which is expected to be four by the end of year). At present, thirty-eight faculty members are engaged in teaching and research activities. Current enrollment of research scholars is ninety M.Phil, and one hundred & twenty-seven Ph.D students.

○ **Foreign Academic Linkages**

Centre is academically linked with TWAS and there are four students enrolled in Ph.D programme under TWAS-CEMB fellowship.

○ **Honours and Awards**

- CEMB won three Technology Awards and one Special Award in 2nd Invention to Innovation Summit SINDH at Karachi University in 2017 on three products.
 - Multiple gene cotton varieties.
 - Ecoli expression of HA gene.
 - Production of edible vaccine against NDV.
- Ms. Aneela Yasmeen, Lecturer and Ph.D Research Scholar joined “Mevlana Exchange Program” at Department of Agriculture Genetic Engineering, Nigde Omer Halisdemir University, Turkey (2017-18).
- Satha Innovation Award for the development of CEMB, Multigenic Cotton, By University of the Punjab and UET Lahore. (7-8 March, 2017)
- Dr. Azra Mehmood, Assistant Professor has received hands on training on the use of “Bioluminescent In-vivo Imaging System” sponsored by LI-COR Company, USA in November 2017.
- CEMB received ICRA-Asia Young Scientist Innovation Medal-2017.
- CEMB won Invention to Innovation Award 2017 organized at University of the Punjab, Lahore.
- CEMB won Invention to Innovation Award 2017 organized at University of Balochistan and won five awards for Edible Vaccines, Transgenic Corn, Biolistic Gun.
- Post-Doc Fellowship Awarded to Dr. Abdul Qayyum Rao by Alexander von Humboldt Foundation; Botanische Institute-II, Karlsruhe Institute of Technology (KIT), Germany (1st phase completed)
- IRSIP HEC six months Training Program awarded to Ms Ambreen Gul at Department of Molecular Biology and Genetics, Aarhus University, Denmark.
- IRSIP HEC six months training program awarded to Zahida Qamar at Department of Cell and Systems Biology, University of Toronto, Canada.
- IRSIP HEC six months training program awarded to Ms Fatima Batool at Faculty of Life Science University of Manchester, UK.
- 7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March, 2018)
- Dr. Bushra Rashid Visited to Omer Halisdemir University, Nigde Turkey under Mevlana Faculty Exchange Program funded by Omer Halisdemir University, Nigde Turkey April 12-26, 2018



- Dr. Bushra Tabassum Visited to Omer Halisdemir University, Nigde Turkey under Mevlana Faculty Exchange Program funded by Omer Halisdemir University, Nigde Turkey April 12-26, 2018
- **Institutional Linkages**
Centre has strong linkages with different learning institutions. Many students are doing their internship with a background of life science. The institutions are as under,
 - Lahore College for Women University
 - Kinnaird College for Women Lahore
 - University of Veterinary and Animal Science, Lahore
 - Allama Iqbal Medical College (AIMC)/Jinnah Hospital, Lahore
 - Bahuddin Zakria University, Multan
 - Shaheed Zulfiqar Ali Bhutto Medical University, PIMS Islamabad,
 - Benevolent Trust Free Eye Hospital (LRBT), Lahore.
 - Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore.
 - Arid Agriculture University, Rawalpindi
 - University of Agriculture , Faisalabad
 - University of Lahore, Thokar Niaz Baig, Lahore
 - Government College University, Lahore
 - Government College University, Faisalabad
 - COMSAT Sahiwal Campus
 - Institute of Biochemistry & Biotechnology IBB, UVAS, Lahore.
 - Govt College Home Economics, Lahore.
 - FC College University, Lahore.
 - College of Earth and Environmental Science (CEES) University of Punjab
 - Avicenna Medical College/Hospital, Lahore.
 - Muhammad Ali Jinnah University, Islamabad
 - The Islamia University, Bahawalpur.
 - National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad
 - Abdul Wali Khan University Mardan.
 - International Center for Chemical and Biological Sciences, University of Karachi

DEPARTMENT OF BOTANY

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○ **Undergraduate and Postgraduate Programmes**

Department of Botany is running Undergraduate BS Botany (4-Years) (Morning) Program and two M.Sc Botany (Morning and Self-supporting) Programs. Admissions of these programs are held annually during the month of August/September (as per University schedule). There are 29 seats for BS (4-Years) Morning program, 45 seats in M.Sc. Morning and 53 seats in self-supporting Programs. These programs are being run under semester system.



○ **MS and PhD Programmes**

The Department is also offering four Postgraduate MS & M.Phil Botany (2-years) Regular and self-supporting programs. There are 15 seats each for MS & M.Phil Regular programs and 30 seats each for self-supporting programs. The Department also runs the Ph.D (Regular and Old scheme programs. All programs are run under Semester systems.

○ **Academic Achievements**

The following session were completed during the said period:

| Program | Session | No. of students |
|---------|---------|-----------------|
| BS | 2014-18 | 16 |
| M.Sc. | 2016-18 | 40 |
| MS | 2016-18 | 15 |
| M.Phil | 2016-18 | 09 |

▪ **Ph.D**

The Viva-Voce examination of the following Ph.D. Scholars were held successfully and their Ph.D. notification was issued by the University of the Punjab, Lahore.

| Program | Session | No. of students |
|---------|------------------|-----------------|
| 1 | Dr. Arifa Khalid | 2017 |
| 2 | Dr. Amna Ishaq | 2017 |
| 3 | Dr. Arooj Naseer | 2018 |

▪ The following students availed IRSP from HEC during this period:

| Sr. No | Name of Scholar | Duration | Place |
|--------|-----------------|------------------------------------|--|
| 1. | Afshan wahab | 16 June 2017 to 12 Dec 2017 | Harvard University, Cambridge, MA, USA |
| 2. | Hira Bashir | 7th Sep 2017 to 3rd March 2018 | INRA, MYCSA, Bordeaux, France |
| 3. | Munazza Kiran | 16 September 2017 to 12 March 2018 | Harvard University, Cambridge, MA, USA. |
| 4. | Tayyaba Qasim | 16 September 2017 to 12 March 2018 | Harvard University, Cambridge, MA, USA. |
| 5. | Memoona Khan | 18 September 2017 to 13 March 2018 | Field Museum of Natural History Chicago University of Chicago, USA. |
| 6. | Qurat-ul-Ain | July 2017 - January 2018 | Department of Biological and Agricultural Engineering, Texas A & M University, USA |



○ **Foreign Academic Linkages**

- Dr. B.C. Lamb, Imperial College, London research on Molecular Evolution/Biodiversity
- Professor Nevo, University of Haifa (Department of Molecular Evolution)
- Professor Nasir ud Din from Molecular/ Bioinformation Institute, Nisbet Road, Lahore.
- Dr. Mukhtar ul Hussain from Brunel, London
- Dr. Sergio C. Capareda. Department of Biological and Agricultural Engineering, Texas A & University USA
- Donald H. Pfister, Department of Organismic and Evolutionary Biology, Harvard University, MA, USA
- Prof. Dr. Mary Catherine Aime, Department of Botany and Plant Pathology/Arthur Fungarium and Kreibel Herbarium Purdue University, Indiana, USA
- Chicago Botanic Garden/ Northwestern University Illinois USA
- Dr. Philippe Callac, INRA, MYCSA, Bordeaux, France
- Field Museum of Natural History Chicago, University of Chicago, USA

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

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Fax Number (s): +92-42-35952855

E-mail Address (s): chairperson.mmg@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

Number of students enrolled during the period BS and M.Sc

| | Male | Female | Total |
|------------------------|------|--------|-----------|
| BS Session (2017-21) | 04 | 32 | 36 |
| M.Sc (Session 2017-19) | 00 | 35 | 35 |
| Total | | | 71 |

○ **MS/M.Phil & Ph.D Programmes**

Number of students enrolled during the period MS/M.Phil & Ph.D

| | Male | Female | Total |
|---------------------------------|------|--------|-----------|
| MS Session (2017-19) | 01 | 13 | 14 |
| MS Session (2018-20) Spring | 08 | 06 | 14 |
| M.Phil Session (2017-19) | 00 | 15 | 15 |
| M.Phil Session (2018-20) Spring | 02 | 13 | 15 |
| Ph.D fall (Session 2017-22) | 03 | 10 | 13 |
| Ph.D spring (Session 2018-23) | 03 | 08 | 11 |
| Total | | | 82 |



○ **Academic Achievement**

Number of students passed out during period BS and M.Sc

| Class | Male | Female | Total |
|------------------------|------|--------|-------|
| BS Session (2014-18) | 04 | 30 | 34 |
| M.Sc Session (2016-18) | 00 | 35 | 35 |
| Total | | | 69 |

Number of students passed out during period MS/M.Phil and Ph.D

| Class | Male | Female | Total |
|--------------------------|------|--------|-------|
| MS Session (2016-18) | 03 | 12 | 15 |
| M.Phil Session (2016-18) | 01 | 16 | 17 |
| Ph.D | 05 | 01 | 06 |
| Total | | | 38 |

○ **Foreign Academic Linkages**

- TWAS-UNESCO Associateship Scheme at Centres of Excellence in the South. MMG Department is a part of this scheme.
- Research Collaboration between Robert Thomas Bachmann, Universiti Kuala Lumpur. Malaysian Institute of Chemical and Bioengineering Technology. Lot 1988 Taboh Naning, 78000 Alor Gajah Melaka, Malaysia and Department of Microbiology and Molecular Genetics, Punjab University.
- Research Collaboration between: Institute of Medicinal Biotechnology (IMB), Peking Union Medical College (PUMC), Chinese Academy of Medical Sciences (CAMS) Beijing, China and the Department of Microbiology and Molecular Genetics (MMG), University of the Punjab, Lahore, Pakistan. (Collaborative research project under “Belt and Road Initiative”).
- Research Collaboration between Center for Pharmaceutical Research and Innovation (CPRI), College of Pharmacy, University of Kentucky, Lexington, USA, and the Department of Microbiology and Molecular Genetics (MMG), University of the Punjab, Lahore, Pakistan.

○ **Honours and awards**

- Prof Dr Shahida Hasnain awarded Pride of Performance by President of Pakistan
- Mr. Muhammad Zeeshan Akbar Awarded Fully Funded Chinese Government Scholarship for Ph.D Computer Science, School of Computer, South China Normal University, Guangzhou, China (2017-2020).
- Dr. Nousheen Zaidi was awarded Georg Forster Research Fellowship for Experienced Researchers by the Humboldt Foundation, March 2017- 19 (for 12 months divided up into three research stays).
- Dr. Imran Sajid awarded the US Fulbright Postdoctoral Fellowship by USEFP/IEE under Fulbright Scholars Program 2018-2019, for 1 year post-doctorate at The College of Pharmacy, University of Kentucky, Lexington, USA.



- Dr. Nageen Hussain and Dr Samreen Riaz got best Technology Award at the 7th Innovation Summit 2018 organized by ORIC-PU.
- Awarded Letter of Appreciation as Chief Co-coordinator/Focal Person from the University of the Punjab, Lahore on 28-January Familycon 2017 27th Annual International Conference on Family Medicine at Pearl Continental Hotel Lahore from 27-29th January 2017
- First Best Poster Prize winner in International Conference Solid State Physics held on 10-14 December
- Second Best poster Prize winner on 12-14 January Familycon 2018 on 28th Annual International Conference on Family Medicine at Pearl Continental Hotel Lahore from 12-14th January 2018.
- Awarded Letter of Appreciation as Chief Co-coordinator/Focal Person from the University of the Punjab, Lahore for the Familycon 2018 28th Annual International Conference on Family Medicine at Pearl Continental Hotel Lahore from 12-14th January 2018.
- Two Best poster awards with cash prize in the Conference on Microbiology & Molecular Genetics, in the department of Microbiology & Molecular Genetics, University of the Punjab, Lahore on 7-9 February 2018.
- First best poster technology award with cash prize in the 7th Innovation Summit for technology organized by ORIC University of the Punjab, Lahore on 7-8 March 2018.
- **Institutional Linkages**
 - International
 - Robert Thomas Bachmann, Universiti Kuala Lumpur. Malaysian Institute of Chemical and Bioengineering Technology. Lot 1988 Taboh Naning, 78000 Alor Gajah Melaka, Malaysia
 - Dr. Lisa Scanduzzi, Albert Einstein College of Medicine, New York, USA.
 - Prof. Dr Peter Lindblad, Department of Chemistry Angstrom –Microbial Chemistry, Uppsala University, Sweden.
 - Prof. Dr. Yuanda Song, Colin Ratledge Center for Microbial Lipids, School of Agriculture Engineering and Food Science, Shandong University of Technology, Zibo, Shandong, China
 - Prof. Dr Peter Lindblad, Department of Chemistry Angstrom –Microbial Chemistry, Uppsala University, Sweden.
 - Prof. Dr. Chenghang Sun, Institute of Medicinal Biotechnology (IMB), Peking Union Medical College (PUMC), Chinese Academy of Medical Sciences (CAMS), Beijing, China.
 - Prof. Dr. Jon S. Thorson, Center for Pharmaceutical Research and Innovation (CPRI), College of Pharmacy, University of Kentucky, Lexington, USA.
 - National
 - The women University Multan, Multan
 - The University of Lahore (UOL).
 - University of Health Sciences, Lahore
 - University of Veterinary and Animal Sciences, Lahore.



- Lahore College for Women University
- Forman Christian College University Lahore
- University of Central Punjab (UCP), Lahore.
- COMSATS University Islamabad, Abbottabad Campus
- Allama Iqbal Medical College, Jinnah Hospital Lahore
- Citilab and Research Centre Lahore
- Gulab Devi Chest Hospital Lahore

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

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○ **Undergraduate and Post Graduate Programmes**

The BS (4 years) degree program in Physical Education was introduced in Pakistan in 2013 and spread over eight semesters. The department has an elaborate M.Sc Program for the external BA/BSc (2 years) students coming from various colleges. The department is accommodating the BA/BSc (2 Year) students from all over Pakistan on merit and reserve seats.

DEPARTMENT OF ZOOLOGY

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○ **Undergraduate and Postgraduate Programmes**

- Undergraduate program in the Department of Zoology includes B.S. (4-years) degree program. Total of 27 seats are available including reserves seats.
- In postgraduate programs department offers M.Sc. (2-years) program (Morning and Evening) for the external B.Sc. Pass course (2-years) students coming from various colleges. The department is accommodating B.Sc. (2- years) students from all over Pakistan since decades on merit and reserve seats.

○ **MS and PhD Programmes**

- Department offers M.Phil./MS programs both in Fall and Spring semesters as well as in morning and evening classes.
- Department also offers PhD degree for various disciplines of zoology.

○ **Academic Achievements**

Department produced 27 students of BS (4-year), **116** students of M.Sc. while **91** students of M.Phil/MS, while **12** PhD scholars defended their PhD Theses and awarded with Doctorate degree

○ **Foreign Academic Linkages**

- Faculty members and PhD Scholars visit different foreign universities of technologically advanced countries.



- Ph.D. Students of my Lab. are visiting foreign Universities in Ph.D. split program awarded by HEC Govt. Pakistan at U.K. and USA for 6 months to 1 year period. In these visits they carry samples from Department of Zoology and employ them in the advance labs of Oxford University, Harvard University and other different universities of the World.
- **Honors and Awards** (Member, chair, Co-chair, University incentive Award, Performance Award, Members Selection Committee)
 - Member, Board of Studies in Biological Sciences, School of Biological Sciences, University of the Punjab, Lahore, vide office order No. SBS/745/18, dated 27.11.2018.
 - Member of the Board of studies in medicine & Dentistry as constituted under the Punjab University Act, 1973. Of the Shaikh Zayed Postgraduate Medical Institute/Shaiikh Khalifa Bin Zayed Al-Nahyan Medical & Dental College, Lahore, vide office order No. D/5963/Acad, dated 17.09.2018.
 - Member, Board of Faculty of Sciences, University of Sargodha, Sargodha, vide office order No. UOS/Acad/761, dated 29.10.2018.
 - Convener, Departmental Tenure Review Committee (DTRC) of the Department of Zoology, University of the Punjab, Lahore vide office order No. D/3877/Est-I, dated 05.11.2018.
 - Member, committee regarding Seniority issue of Prof. Dr. Rizwan Akram Rana, Institute of Education & Research, University of the Punjab, Lahore, vide office order No. D/3600/Est-I, dated 05.10.2018.
 - Member, Advanced Studies & Research Board, University of the Punjab, Lahore, vide office order No. D/6404/Acad, dated 26.09.2018.
 - Member, Departmental Tenure Review Committee (DTRC) for Department of Zoology, GC University Lahore. Vide office order No. 07-03/DTRC(TTS)-18, dated 15.08.2018.
 - Member of the Standing Committee on Plagiarism, University of the Punjab, Lahore, vide office order No. 3241/Addl.R, dated 22.06.2018.
 - Member, ADHOC committee appointed by the Vice-Chancellor to discharge the function of the Board of Studies, Centre for Applied Molecular Biology, University of the Punjab, Act, 1973. Vide office order No. D/4588/Acad, dated 03.08.2018.
 - Member, Departmental Tenure Review Committee (DTRC) of the Institute of Agricultural Sciences, University of the Punjab, Lahore to evaluate/review the performance of the Faculty Members working on TTS according to the relevant statutes. Vide office order No. D/2566/Est-I, dated 19.07.2018.
 - Member of Robes/Hall & Seating arrangements/Academic Procession/Stage Management Committee for the Phase-II of 126th Convocation, University of the Punjab, Lahore, vide office order No. D/198/R, dated 12.02.2018.
 - Member, committee to give its suggestions (in the light of TTS statutes and further clarifications by HEC to resolve the promotion and other allied issues of the faculty members working under Tenure Track System at University of the Punjab, Lahore. Vide office order No. D/218/R, dated 16.02.2018.



- Member, committee regarding grant of advance/annual increment and performance based increment/honorarium to the faculty members working under Tenure Track System, at University of the Punjab, Lahore vide office order No. D/211/R, dated 15.02.2018.
- Member, committee for preliminary hearing of appeals in the disciplinary cases for the academic years 2018 and 2019 to consider the appeals of the appellants against the decisions of the Disciplinary Committees (Unfair Means Committees), University of the Punjab, Lahore vide office order No. D/214/R, dated 15.02.2018.
- Member, Board of Faculty of Sciences, University of the Punjab, Lahore. Vide office order No. D/1888/Acad, dated 07.03.2018.
- Member, Transport Committee, University of the Punjab, Lahore, vide office order No. D202/R, dated 13.02.2018.
- Chairman, House Allotment Committee for Non-Teaching Staff of University of the Punjab, Lahore, vide office order No. D/203/R, dated 13.02.2018.
- Chairman, Sub-Committee to evaluate the cases regarding grant of Advance/Annual Increment and Performance Based Increment/Honorarium to the Faculty members working under Tenure Track System, before placing in the Main TTS Committee, University of the Punjab, Lahore, vide office order No. D/474/R, dated 07.05.2018.
- Was interview by Main Hassan Bin Aamir, a bona-fide student of M.Sc. Communication Studies (Morning), 2nd Semester, Session 2016-18, at the Institute of Communication Studies, University of the Punjab, Lahore. Vide office order No. D/No/1842/ICS, dated 22.10.2018.
- Mid probationary reviewer of 3 years' Progress Report of Dr. Shahzad Ali, Assistant Professor (TTS), Department of Wildlife and Ecology. UVAS, Lahore. Vide office order No. 856, dated, 16.08.2018.
- Acted as Expert to interview the applicant for the post of Assistant Professor (Zoology on TTS basis) at University of Education, College Road Township, Lahore on 09.09.2018, vide office order No. UE/R/2018/3601, dated September 05, 2018.
- Acted as subject expert for selection board for promotion as Professor/Associate Professor (TTS), School of Biological Sciences, University of the Punjab, Lahore on August 08, 2018 vide office order No. SBS/423/18, dated 02.08.2018.
- Attended the 38th All Pakistan Science Conference "Energy Crisis and Their Solution in Pakistan" on 10th December 2018 at College of Earth and Environmental Sciences, University of the Punjab, Lahore.
- Organizer one day symposium "Intergrated pest management for food safety" on December 13, 2018 in Department of Zoology with collaboration of C-Shine Group and ORIC, University of the Punjab, Lahore. Vide office order No. D/1704/UZ and 13846/VC, dated 23.11.2018.
- Participated and acted as Guest in one day symposium titled "DNA in Crime Investigation" organized by Centre for Applied Molecular Biology, University of the Punjab, Lahore, vide office order No. CAMB/D/359/18, dated 02.04.2018.



- Participated and gave lecture for lead in 3rd International Conference on Biosciences-2018, organized by Biological Society of Pakistan, GC University Lahore, Pakistan on May 9th to 11th, 2018.
- Organizer, National Workshop on “Potential of Sericulture for Employment and Income Generation” organized by Department of Zoology, University of the Punjab, Lahore & Punjab Forestry Research Institute on February 15, 2018.
- Organizer, 3rd Training workshop on “Hands on Practice of Basic Lab. Instruments” by Department of Zoology, University of the Punjab, Lahore on February 02, 2018.
- Participated in one day Symposium on “Industrial Biotech & Biorefining” organized by Center for Applied Molecular Biology, University of the Punjab, Lahore on 25.01.2018.
- Organizer, Training workshop on “Effective Time Management” by Department of Zoology & Career Counseling & Placement Centre, University of the Punjab, Lahore on January 08, 2018.
- Participated and gave lecture for lead in 3rd International Conference on Biosciences-2018, organized by Biological Society of Pakistan, GC University Lahore, Pakistan on May 9th to 11th, 2018.
- Presented a poster in 38th Pakistan Congress of Zoology, Deeba, F., Shakir, H.A., Irfan, M. and Qazi, J.I. 2018. “Chemical and UV mutagenesis for enhanced productions of chitinase from *Bacillus subtilis*” during the 38th Pakistan Congress of Zoology (International), held at University of the Punjab, Lahore on February 27 – March 1, 2018.

INSTITUTE OF AGRICULTURAL SCIENCES

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○ **Undergraduate and Postgraduate Programmes**

- B.Sc. (Hons.)
 - Majors
 - Plant Pathology
 - Horticulture
 - Food Technology
 - Entomology
 - Agronomy

○ **MS and PhD Programmes**

- M.Sc. (Hons.)
 - Majors:
 - Plant Pathology
 - Food Technology
 - Horticulture
 - Entomology
- Ph.D. Agricultural Sciences



○ **Academic Achievements**

- Imparting quality education and development of culture for advanced research are the primary foci of the Institute of Agricultural Sciences (IAGS). Four regular batches of BS (Hons.), four of M.Sc. (Hons.), and eight of Ph.D. are in progress. During the report period 167 students to BS (Hons.), 120 to M.Sc. (Hons.) and 15 to Ph.D. program were admitted. Since the establishment of the institute, eleven batches of BS (Hons.) 4-year program and eleven batches of M.Sc. (Hons.) programs have passed out. In the area of teaching, attention is being focused on concept building. This goal is achieved by observing the curriculum developed by HEC to meet the national needs. Quality enhancement is addressed on the guideline proposed by HEC and PU faculty assessment ariterions. The guidelines are based on credit hour allocation, infrastructure development, student-teacher relationship and involvement of parents in class performance of students. The Module understandings accelerated by utilizing the tools of teaching, tutorials, quizzes and presentations are regular features. Research activities are of academic, applied and adaptive nature. Research projects assigned to Ph.D. students are oriented to cover these aspects. Faculty members have won several research projects with funding from Punjab University and other well reputed local and international organizations. The Institute is also playing a vital role in human resource development in education and farm resource capacity enhancement.
- The institute is playing a significant role in dissemination of scientific information by publishing a biannual scientific journal "*Mycopath*" and a quarterly newsletter '*Agricultural News*'. Seminars, invited lectures from nationally and internationally reputed scientists are regular features of the activities. To inculcate healthy activity of mind and spirit students are involved in various academic & extracurricular committees, and are strongly encouraged to join scientific societies.
- During this period 113 books, 15 research journals, 10 newsletters, 143 reports and 43 theses were added in the library of the institute. The First Fungal Culture Bank of Pakistan has isolated, purified and conserved 72 fungal and 50 bacterial species that were added to conservatory during the report period. Herbal Heritage Centre after standardizing techniques of *Aloe vera* gel and essential oils production at lab scale has acquired locally fabricated pilot plants for commercial production of both.

○ **Foreign Academic Linkages**

- Punjab University – PARB – University of Toronto, Canada
- Punjab University – ICARDA – USDA, University of Arizona, USA

○ **Honours and Awards**

- *Dr. M. Saleem Haider, Professor & 'Director*
Performance award received in 2018 from the University of the Punjab.
- *Dr. Salik Nawaz Khan Associate Professor*
Awarded performance based increment in 2017.



- *Dr. Arshad Javaid, Associate Professor*
Performance based increment and honourarium by Punjab University received in 2017.
- *Dr. Tehmina Anjum, Associate Professor*
Research productivity award (Pakistan Council for Science and Technology) for the year 2017
- *Dr. Amna Shoaib, Assistant Professor*
Honorary and Awarded performance based increment in 2017.
- *Dr. Shazia Shafique, Assistant Professor*
Honorary and Awarded performance based increment in 2018.
- *Dr. Muhammad Ashfaq, Assistant Professor*
 - Awarded performance based increment in 2017
 - Awarded honorary in the year 2018
- *Dr. Muhammad Bilal Chattha, Assistant Professor*
Awarded performance based increment in 2017
- *Dr. Muhammad Nasir Subhani, Assistant Professor*
Research incentive award received in 2017 from the University of the Punjab
- *Dr. Shahbaz Ahmad, Assistant Professor*
Performance award received in 2016-17 from the University of the Punjab.
- *Dr. Sinawar Waseem Ali, Assistant Professor*
 - Ambassador of Global Harmonization Initiative (GHI) in Pakistan
 - Secretary Press & Public Relations, Pakistan Society of Food Scientist and Technologists – Lahore Chapter (2016-18)
- *Dr. Hafiz Azhar Ali Khan, Assistant Professor*
 - Research productivity award (RPA) by the Pakistan Council for Science and Technology (PCST)
 - Incentive award on research publications by the University of the Punjab.
 - Performance evaluation award received in 2017-18 from the University of the Punjab.

○ **Institutional Linkages**

The Institute of Agricultural Sciences has linkages with the following institutions and BS (Hons.) students are sent every year to these institutions for their internship program:

- Pakistan Council for Scientific & Industrial Research (PCSIR) Ferozepur Road, Lahore.
- Center of Excellence in Molecular Biology, Punjab University, Lahore.
- Parks & Horticulture Authority, Lahore
- School of Biological Sciences, Punjab University, Lahore
- FBRC, PCSIR, Lahore
- Federal Seed Certification and registration department (FSCRD)
- Soil Fertility Lab., Thokar Niaz Baig, Lahore
- Land Reclamation Department, Lahore
- Cotton Research Institute, Vehari
- Cotton Research Institute, Multan
- Central Cotton Research Institute, Multan



- M/s Four Brothers, Lahore
- M/s Auriga Chemicals, Lahore
- Agricultural Engineering Workshop, Thokar Niaz, Baig, Lahore
- Punjab Ecotoxicology Lab., Kala Shah Kaku, Lahore
- Rice Research Institute, Kala Shah Kaku, Lahore
- NARC, Islamabad
- Adaptive Research Farm, Sheikhpura
- Adaptive Research Farm, Gujranwala
- Soil Salinity Research Institute (SSRI) Pindi Bhatian
- PARC, Islamabad
- College of earth and environmental sciences, University of the Punjab, Lahore
- Pakistan Council for Scientific and Industrial Research
- School of Biological Sciences, University of the Punjab
- University of Veterinary and Animal Sciences, Lahore.
- Pakistan Council for Scientific and Industrial Research
- School of Biological Sciences, University of the Punjab
- University of Veterinary and Animal Sciences, Lahore.
- Engro Foods (Pvt) Ltd. Sahiwal
- Innovative Biscuits (Pvt) Ltd. Lahore
- JB Foods (Pvt) Ltd. Lahore
- Metro-Habib Cash & Carry, Lahore
- Premier Dairies (Pvt) Ltd. Lahore
- Qarshi Industries (Pvt) Ltd. Hattar, Harripur.
- Rafhan Maize Products (Pvt) Ltd. Faisalabad
- Asian Foods (Mayfair) Pvt Ltd. Lahore
- Bunny's (Pvt) Ltd. LahoreCakes and Bakes (Pvt) Ltd. Lahore
- Dawn bread (Pvt) Ltd. Lahore
- United Snacks (Pvt) Ltd. Lahore
- Mitchell's Fruit Farms, Renalla Khurd, District Okara
- Nestle Pakistan, SheikhpuraPEPSI Cola (Pvt) Ltd. Lahore
- Coca Cola Beverage Pakistan, Lahore
- Pakistan Standards and Quality Control Authority (PSQCA)
- Veterinary Research Institute Lahore
- Nuclear Institute for Agriculture and Biology, Faisal Abad.
- Directorate of pest Warning and Quality Control of Pesticides, Punjab
- Citrus Research Institute Sargodha
- Parks & Horticulture Authority, Lahore
- Computational Boilogy group Schoool of Sciences and engineering LUMS Lahore
- Training international Lahore



INSTITUTE OF APPLIED PSYCHOLOGY

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○ **Undergraduate and Postgraduate Programs**

Currently Institute of Applied Psychology is running two Undergraduate BS (4-Years) Applied Psychology (Morning and Replica) Programs and two Postgraduate M.Sc Applied Psychology (Morning and Replica) Programs. Admissions of these programs are held annually during the month of September/October (as per University schedule). There are 40 seats for BS (4-Years) Morning program, 38 seats for BS (4-Years) Replica program, 50 seats each in M.Sc. Morning and Replica Programs. These programs are being run under semester system.

○ **MS and PhD Programs**

Institute is also offering full time M.Phil Applied Psychology, MS Health Psychology and Ph.D Applied Psychology Programs. There are 20 seats each for M.Phil Applied Psychology, MS Health Psychology Programs, and 10 for Ph.D Applied Psychology.

○ **Academic Achievements**

- External Lecture on Child Abuse, Related Issues and Interventions
IAP arranged an external lecture on Child Abuse, Related issues and Interventions for students of BS, MSc and PhD Forensic Psychology at IAP on November 1st, 2017. The resource person was Dr. Rabia Iftikhar, Assistant Professor, Clinical Psychology Unit, GCU, Lahore. She competently explained the core concepts encircling Child Abuse, causal factors and consequences in an informative manner. This lecture served to enhance the student's understanding in their concerned fields.
- Extension Lecture on Drug Addiction, Related Issues and Interventions
On November 21st 2017 lecture was arranged on "Drug Addiction, Related Issues and Interventions" for the students of BS, MSc (Morning & Replica) and PhD. The lecture was conducted by Dr. Musaffa Butt, Assistant Professor, Government College University. The students were elaborated on the types of drug addictions, causal factors, consequences, statistics and necessary mechanisms for its prevention. After an interactive discussion on the topic, he closed the talk by taking queries from the students.
- Extension Lecture on Forensic Investigation Techniques
On December 5th 2017, Prof. Dr. Farah Malik arranged a lecture on "Forensic Investigation Techniques" for the students of PhD, MSc (Morning & Replica) and BS specializing in the field of Forensic Psychology. This lecture was conducted by Mr. Manzoor Hussain, Senior Research Officer (Incharge/Head of Forensic DNA & Molecular Diagnostic laboratories) of Centre of Excellence In Molecular Biology, (CAMB) PU. The students were briefed about forensic investigation techniques and application aiding in criminal profiling and research. Queries of the students were answered at the end of the lecture to enhance their understanding of the topic.



- **Seminar on Numeracy as Predictors of Decision Making**
A seminar entitled “Numeracy as Predictors of Decision Making” was organized on January 3rd, 2018. Dr. Saima Ghazal, Assistant Professor, Institute of Applied Psychology, Punjab University conducted the seminar for MPhil and PhD students. The seminar provided students with an excellent opportunity to enhance their conceptual and practical knowledge in order to develop their academic and professional skill in test construction and procedures relevant to it.
- **Qualitative Data Analysis through NVIVO-11 Workshop**
One day workshop on Qualitative Data Analysis through NVIVO-11 was organized for MPhil and PhD Scholars of Institute of Applied Psychology, University of the Punjab, Lahore on March 7th, 2018. Dr. Mujeeba Ashraf, Assistant Professor, Institute of Applied Psychology, University of the Punjab was the resource person. It mainly particularized on enhancing the capabilities of students in the qualitative research and was extremely beneficial for their research projects.
- **Workshop on SEM through AMOS**
A two days' workshop on SEM through AMOS was conducted from 28th to 29th March, 2018 for the students of M.Phil, MS Health psychology and PhD. The primary purpose of the workshop was to enlighten students regarding the guidelines necessary for conducting advanced statistical analysis with AMOS. Mr. Muhammad Faran, Lecturer, University of Management and Technology was the resource person. The workshop provided an opportunity to the attendees to further their understanding about the intricacies in conducting statistical analysis through AMOS.
- **Workshop on Online Data Collection**
Institute of Applied Psychology arranged one day workshop on “Online Data Collection” on 4th April, 2018 for the students of MS Health Psychology and MPhil Applied Psychology. Ms. Jaleesha Abdul Hafeez Butt who recently did MS from Middle Sex University, UK was the resource person. The primary objective was awareness regarding techniques of online data collection as an aid to the technological advancements in research; The workshop was beneficial in terms of keeping student updated in research advancements.
- **Workshop on Application of Psychological Assessment**
Workshop on “Application of Psychological Assessment” was conducted by Dr. Iftikhar Ahmed, Professor, University of Management and Technology on 2nd May, 2018 for the students of PhD, MS and MPhil. The students were elaborated on modern techniques of psychological assessment and application of testing and assessment in Psychology.
- **Workshop on Child Sexual Abuse**
Institute of Applied Psychology arranged one day workshop on “Child Sexual Abuse” on 7th May, 2018 for the students PhD , MS, MPhil, MS specializing in Clinical and Forensic Psychology. Dr. Saima Sandhu, Chartered Clinical psychologist from New Jersey



delivered awareness regarding factors, consequences and statistics of child sexual abuse. She elaborated on the importance to adopt necessary mechanisms to prevent child sexual abuse.

- **Workshop on Self in Research**

Dr. Aroosa Fahim, Dean of Social Sciences, Kinnarid College from Women University conducted a workshop on Self in Research on 9th May, 2018 for students of PhD , MS, MPhil, which elaborated how subjective sense of self facilitates or hinders our research process. The workshop was beneficial in conducting future researches for the students.

- **Acting Training Workshop**

A week long acting workshop was organized for students of Institute of Applied Psychology which enhanced students' capacities and capabilities in extracurricular activities, held from March 14th March to 19th March, 2018. Mr. Sibte Hassan, founder of Makhotay Theatre and Mr. Zakariya Hashmi, actor at Makhotay Theatre arranged various training exercises to polish the acting skills in students. The production team was also trained for theatre management and performances.

- **Co-Curricular and Extra-Curricular Activities**

We believe that participation in co-curricular and extra-curricular activities are equally important for students to develop as physically and psychologically healthy individual, a socially responsible individual; a self confident and assertive individual and the one who has realized all inherent potentials. A student advisory committee in the Institute comprising of enthusiastic faculty members prepares annual calendar for co-curricular and extra-curricular activities and ensures students' participation in arrangements and participation in such activities. Last year was a very eventful one comprising of several co-curricular activities such as annual dinner, educational trips and sports event. Moreover, students of the institute actively participated and won accolades in various extracurricular activities like sports, project competition and made Institute proud with their achievements as always.

- **One Day Symposium : Psychology for Change: Women and Community**

In connection to International Women's Day celebrations across globe, Institute of Applied Psychology (IAP), organized a one day symposium entitled "Psychology for Change: Women and Community", on 21st March, 2017 at Al-Razi Hall, University of the Punjab (PU), Lahore. The inaugural session started off with an address by Prof. Dr. Farah Malik, Director Institute of Applied Psychology (IAP) and Center for Clinical Psychology (CCP), University of the Punjab, who welcomed the worthy guests and dignitaries followed by a screening of documentary on women empowerment in Pakistan. Prof. Dr. Najma Najam, Former Vice Chancellor Fatima Jinnah Women University, Rawalpindi (first Women University) and Karakoram International University, Gilgit, delivered the keynote address on the occasion followed by an address by worthy Vice Chancellor PU, Prof. Dr. Zaffar Mueen Nasar, who acknowledged and appreciated the efforts of women in the development of Pakistan as well as of the university.



- Lastly, the guest of honor, Begum Zakia Shah Nawaz, Minister for Population and Environment, Government of the Punjab, addressed the audience and highlighted the contributions of women in every sphere of Pakistani society. The session ended with distribution of shields among the worthy guests. Next, a symposium presentation session commenced chaired by Prof. Dr. Ruhi Khalid, Director Institute of Psychology (IAP), Beaconhouse National University Lahore followed by a panel discussion which explored the theme of this symposium in great detail chaired by Prof. Dr. Rafia Hassan, a renowned psychologist. The panel comprised of several eminent women from diverse fields of society including, banking sector, sports, academics, social activism etc. The event formally ended with vote of thanks and certificate distribution ceremony, in which participants of poster exhibition and these display were awarded with certificates of appreciation for their work amidst huge round of applause.
- **Institute of Applied Psychology Alumni Dinner**
Institute of Applied Psychology organized Alumni dinner on 7th April 2018 to relive the memories bidding farewell to the passed out batch and welcome the newcomers. The energetic event included prestigious guests who were a significant part of the Institute. The Director Prof. Dr. Farah Malik and faculty members welcomed gracious personalities including Prof. Dr. Muhammad Naeem Khan, Dean of faculty of Life Science, Dr. Rafia Hassan, former chairperson Prof. Dr. Rukhsana Kausar, Prof. Dr. Ruhi Khalid, former Directors, Prof. Dr. Seemen Alam, Prof. Dr. Yasmin N. Farooqi, Dr. Mian Aftab Ahmed,, Professor Emeritus IAP Prof. Dr. Najma Najam, former. President of Pakistan Psychological Association Dr. Bilal Aslam Sufi and Mr. Riaz Fatyana. The program started with the Almighty's name and continued with cultural depiction of Pakistan. It included diverse skits depicting everyday life of a psychologist. The fun continued with the singing performances of students and mimes highlighting the creativity and involvement of students. The students gave titles and souvenirs to their seniors. The program ended with Director's note on the importance of such events in which alumni meet, share experiences and most importantly relive the moments spent.
- **Peace Seminar**
Institute of Applied Psychology, Punjab University, Lahore, organized a seminar entitled "peace seminar" at Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab, on December 22nd, 2017. Prof. Dr. Taqi Zahid Butt, Dean, Faculty of Engineering & Technology, University of the Punjab, Lahore, and Prof. Dr. Muhammad Naeem Khan, Dean Faculty of Life Sciences were chief guests were worthy chief guests for the event respectively. A large number of students of IAP and CCP along with faculty members were present at the occasion. This seminar was organized to pay homage to MARTYRS of Army Public School Peshawar, in collaboration with Punjab Higher Education Commission (PHEC). The program formally started with recitation of Holy Quran, later a student, Kumail Raza of IAP expressed his intense feelings for martyrs of APS Peshawar



in a distinctive style through his poetry and many students from IAP and CCP performed skits regarding Peshawar attack, paying tribute to martyrs. Afterwards worthy Dr. Rukhsana Kausar, Director, Institute of Applied Psychology and Centre for Clinical Psychology addressed the audience announcing Weeklong Campaign to pay homage to martyrs of APS Peshawar. At the end chief guests and Punjab Higher Education Commission representative shared their emotions for martyrs and advised students to stand strong against brutality and violence. The program ended with peace walk around campus followed by refreshments.

- **Annual Dinner 2018**

Institute of Applied Psychology organized Annual Dinner on 16th February ,2018, to bid farewell to passed out batches and welcome new comers. The Director Prof. Dr. Rukhsana Kausar and faculty members welcomed gracious personalities including Prof. Dr. Muhammad Naeem Khan, Dean of faculty of Life Science, Dr. Rafia Hassan, former chairperson and Prof. Dr. Najma Najam, former Director. The program started with the recitation and continued with reenactment of Heer Ranjha accompanied by Sufi performances. It included diverse skits depicting life in a police station and an extravagant illustration of a political talk show. The students showed their zeal and zest. The fun continued with the singing performances of students accompanied by flute and musical performances highlighting the creativity and involvement of students. The students gave titles and souvenirs to their seniors. The program ended with shield presentation honoring the services of ex-Directors in the field of psychology.

- **Cultural Day**

Students celebrated cultural day initiated by Ms. Beenish Najam as an aid to the Corss-cultural Psychology course. The students of BS semester IV, Institute of Applied Psychology, Punjab University, Lahore, arranged the event on May 8th, 2018. They showed active participation in the event showcasing their potentials and depicted their cultures in fascinating way. The event formally started with *Tilawat*, followed by colorful cultural performances, games and activities. And finally ended with Prof. Dr. Farah Malik, Director, Institute of Applied Psychology, Lahore address highlighting the importance of celebrating the true roots of culture and motivating students for future participation. The event was perfect practical approach to their academia enhanced their capacities and made them know their capabilities.

- **Forensic Psychology Tours**

First official study visit of first batch of Forensic Psychology was to District Jail, Lahore held by Prof. Dr. Farah Malik and Ms. Shahnila Tariq on 15th November and 29th November, 2017. Students were divided into groups. They were taken under the supervision of their respective teachers. Before going to jail, formal permission from IG Prison Punjab was taken. Students were supervised by a team of Police Officer and Deputy Superintendent Mr. Ghulam Sarwar. Students visited Prisoner's cells. They went



for their case reports from juveniles and adults. They were taken to juvenile school and met with the juveniles in order to write reports. It was a wonderful exposure for students to visit their district jail.

- 2nd official study visit of first batch of Forensic Psychology to Child Protection and Welfare Bureau (CPWB) was arranged by Prof. Dr. Farah Malik and Ms. Shahnila Tariq on 16th November and 30th November, 2017. It was held in two visits; students were divided into two groups and were taken to CPWB under the supervision of their respective course teachers. The students were taken to different section of CPWB; The Principal Ms. Saiqa Hafeez briefly introduced herself and bureau to the students. Students went there for their case study; they met with the children there and had conversation with them in order to make their reports. Students were taken to the class rooms, library and hostels of the bureau. It was a one of their best exposures by studying Forensic Psychology. Third visit of forensic psychology students arranged by Prof. Dr. Farah Malik and Ms. Shahnila Tariq was Central Jail Kot Lakhpat, Lahore on 14-03-2018. The tour consisted on a brief introduction and visit of Central Jail Lahore from the kitchen of the jail to the cells of the prisoners. Mr Ijaz Asghar Superintendent of the jail met with the students and explained all the system of the jail. The students were also given lunch.
- Another study visit was to the session court, Lahore on May 3, 2018. The students were welcomed by two honorable judges of session court. Mr. Abid Hussain Qureshi, head of session court briefed the students about all the proceedings and laws of Pakistan. It was the wonderful experience to visit and explore different courts under one roof. The students also visited different courts and got expose of the proceeding of the cases.
- Organizational Psychology Tours
First visit of Organizational Psychology students arranged by Dr. Shazia Qayyum was Shahkam industry of Knitted, Woven & Denim Apparel & Garments Producer on 16-17 November 2017. A two-day tour consisted on a brief introduction and visit of whole industry from the labor working to the machinery processing, from the marketing department to their brand ONE. Mr. Shahid Kamil, CEO, met with the students and explained the Vision Go Big or Go Home. The students were also given refreshments.
- Another informative visit was to the Interwood Mobel-Pakistan leading furniture and lifestyle brand on December 5, 2017. The students were welcomed with refreshments. They met with marketing manager who briefed about a short success story of Interwood. The students visited the industry from the purchasing department of wood to the polishing, nailing and packing of furniture.
- The third visit was to the Tatra Pack processing and packaging solutions for food and beverages on 22nd February, 2018. Mr. Osman Bucha and Mr. Ali welcomed the students. Students were briefed about the actual meaning of Tetra-Pack and the process



of packaging and processing of food. It was well furnished industry in a line management hierarchy. The students were presented with juices in their packing materials and other fast food items.

- We believe that participation in extracurricular activities is equally important for a student to develop as physically and psychologically healthy, a socially responsible; a self-confident and assertive and the one who has realized all inherent potentials. A team of advisory committee comprising of enthusiastic faculty members prepares annual calendar for extra-curricular activities and ensures students' participation in arrangements and participation in such activities.
- Last year was a very eventful one, comprising of several extracurricular activities such as annual dinner, educational trips and sports event. Moreover, students of the institute actively participated and won accolades in various extracurricular activities like sports, project competition and made Institute proud with their achievements as always.
- Congratulating New Director Prof. Dr. Farah Malik
Faculty and Staff of Institute of Applied Psychology congratulated Prof. Dr. Farah Malik for joining the Institute as Director on 6th March, 2018. A bouquet was presented to welcome worthy Director and best wishes were extended hoping for a prosperous future.
- Farewell to Former Director Prof. Dr. Rukhsana Kausar
Faculty and Staff of Institute of Applied Psychology bid farewell to Prof. Dr. Rukhsana Kausar on her retirement after serving decades with warm wishes on 5th March, 2018. Bouquets and souvenirs were presented to her as a token of appreciation and regard.
- Annual Sports Day 2018
Institute of Applied Psychology, Punjab University held its annual sports day on April 17th, 2018 under leadership of Prof. Dr. Farah Malik, Director of IAP. Ms. Andleeb Sandhu, pioneer and president of Pakistan Women Karate Association, General Secretary of Pakistan Karate Federation, and Prof. Dr. Muhammad Naeem Khan, Dean of Faculty of Life Sciences, graced the occasion with their presence. Both honorable guests filled the air with full encouragement, determination and complete zeal, and inaugurated the event along with our worthy Director and faculty members. The event was organized by Ms. Zaeema Farooq and her organizing committee of students which started with the welcome note by the Director, praising the efforts of the committees and further appreciating the vigor of participating students in extracurricular activities. Colorful stalls with variety of food items were also displayed. The opening ceremony of event included aerobic skills and Karate demonstration with self-defense skills by our students.
- Different Races, Badminton, Ludo, Carom, Football and Cricket matches were held between students' teams from different programs. Students cheered and the grounds erupted with roars for supporting their teams. In the closing ceremony, Prof. Dr. Farah Malik distributed prizes to the winners and appreciated the successful event. She also acknowledged the faculty members, nonteaching staff and the umpires from the sports department.



- Annual Mehfil-e-Milad

Annual Mehfil-e-milad was held at the IAP on December 11th, 2017 to observe the auspicious event of 12th Rabi-ul Awwal. The event started with Quran Khawani and proceeded by naats offered in the honor of Prophet Muhammad (P.B.U.H). Students, faculty and staff members participated in event with religious passion and zeal to celebrate and honor the birth of Prophet Muhammad (P.B.U.H). The event marked its end with a collective Dua ceremony after which tabaruk (sweets) were distributed among everyone in attendance.

- Outgoing Batch's Theme Week

To make the final weeks at the IAP memorable, the senior batch (MSc Morning and Replica BS Morning and Replica) organized a theme week from the 7th to 11th May, 2018 under the auspices of the Director, Prof. Dr. Farah Malik. From travelling back to their school days to the gujjars at Gujjar Day, and finally professionals at Professional Day, it was a highly enjoyable and cherished event. Students sequenced their week entitling each day as school day, gujjar day, odd day, cool day and professional day respectively, where all the final year students were in their element portraying the various themes. Those joyous moments were captured and will be treasured.

- 5 Day Study Tour

- Institute of Applied Psychology arranged Five Days Tour to Abbottabad and Naran Dr. Shazia Khalid and Ms Zaeema Farooq accompanied the tour. Buses departed from Lahore and had a long ride to Abbottabad of about half a day. Students visited the grand Ilyasi Mosque which was delightful, fascinating and utterly perplexing at the same time. The next morning on the way to Naran, students visited famous tourist hub in Kaghan Valley. Later, after 3 hours' drive and a short stay students headed to an adventurous and yet another unique experience to visit breathtaking and heavenly Saif ul Malook Lake. Boating in the blue mesmerizing waters of the lake and horse riding on lush green lawns was a once in a life time experience. Next Morning, they took their way to eye-catching and one of the beautiful mountain tops, the Babusar top with a beautiful view of Lalusar Lake on the way.
- After a pleasant evening of sightseeing and eventful and tiring adventure of hiking to the top they headed back to hotel in Naran. At dinner, they were generously provided some traditional local food which indeed was delicious. 4th day was destined for a beautiful place called Siri Paye along River Kanhar. The weather was stunning and provided for a great view of the landscape.
- The green meadows were completely mesmerizing. Last spot on the 5th day on way back to Lahore was Sajikot Waterfall. Students reached Lahore after a short stay at Bhera rest area which was an excellent end to the tour to Naran, Kaghan Valley.



- Students' Achievements

Students of Institute of Applied Psychology under the Directorship of Prof. Dr. Farah Malik won first position in Inter-University Performing Arts Competition held at Government College University, Lahore, during their Mental Health Week on 22nd March, 2018. Students attended acting workshops and were trained by Mr. Sibte Hassan, founder, Makhotay Theatre and Mr. Zakariya Hashmi, actor at Makhotay Theatre to polish their skills in theatre and were commended for their performance on the theme of Religion and Culture in Psychology.

- Institute of Applied Psychology, Punjab University secured 1st position in Inter University Quiz Competition held on 22nd February, 2018, Mental Health Day under the auspices of Beacon House National University, Lahore. Amna Shahid, Habiba Arif and Aimen Faruki represented IAP in the competition and were awarded by the Vice Chancellor of BNU Mr. Hafiz Nasir Kardar. Students of Institute of Applied Psychology secured a special prize owing to the quality of poster on 12th April, 2018, at Lahore College for Women University, Lahore's Mental Health Week on the theme of Peace Psychology

- Institute of Applied Psychology, Punjab University secured 1st position in Inter University Poster Competition held under the auspices of RIPHAH Institute, Lahore on 25th November, 2017.

- Students of Institute of Applied Psychology, Punjab University, Lahore were runner ups in poster competition held at University of Central Punjab, Lahore on 2nd January, 2018.

- Ali recited his poetry at the event and was much appreciated by the audience.

- Our student Nazar Abbas BS-4 represented Punjab University at All Pakistan Musical Conference and won gold medal on November 25, 2017.

- Ayesha Areej student of BS-4, IAP, PU represented Punjab University in all Pakistan parliamentary tournament held from 23rd to 26th March 2018.

- Saira Amjad a student of BS-2 participated in All Pakistan Intervarsity Karate championship conducted by UET Lahore and won one *gold medal* and two *silver medals* along with team trophy.

- Community Work

Institute of Applied Psychology inculcates in its students a sense of responsibility and sensitivity towards the current social issues and a spirit of volunteerism. The students of the Institute participate in community work, both at the directives of the Institute as well as on voluntary basis. In order to ensure students' participation, the Institute has added community work as a mandatory part of its curricula. This year too, community work was undertaken by students with keen interest and commitment.

- The students visited various public schools and gave training to the students regarding health and hygiene, morality and grooming. One of the activities held in collaboration



with SCAS was putting up stalls at University girls' hostels to make them aware of psychological health, educate and sensitize them about issues related to physical and mental health, and train them manage day to day life problems. Stress management, healthy life style and eating habits were amongst the main areas covered in the community work. Students executed projects on environment protection & cleanliness, humanism, altruism and patriotism.

- On a personal level, students render voluntary services in different hospitals, situations, raising awareness among masses on different issues through preparing and circulating educational pamphlets, providing support to the families of children with special conditions and diseases.
 - Our students volunteer to be part of different student committees: Cleanliness, Security, Discipline, Extracurricular activities etc. Their duty is to watch over and assist in respective responsibilities and report to the faculty member accordingly.
 - A group of BS semester II morning session students organized a three day workshop on self-defense from 26th-28th June, 2018 at IAP Hall. The workshop was divided into several sessions; including session on nutrition, warm-up exercises, strength training and self-defense techniques in case of any untoward situation faced by the defendant. A large number of students as well as faculty members participated in the workshop, which was thoroughly beneficial for the women participants by enabling them with the techniques for their personal safety and security.
 - Another group of BS semester II morning session students organized a lecture on personal hygiene for women on 27th June, 2018 at IAP Hall. A demonstration of Candidiasis was also presented in order to highlight the importance of personal hygiene. With the help of audio-visual aid, the students shared most common issues and taboos related to women's hygiene and how one can address them while briefing about how to maintain personal hygiene.
 - We take pride in our students' versatility, who despite of attending demanding academic activities (under semester system), also extend help for managing institutional extra-curricular activities.
- **Foreign Academic Linkages**
The Institute has foreign academic linkage with:
- St. Andrew's University, Scotland, UK.
 - International Council of Professional Therapists (UK).
 - Children and War Foundation, Bergen, Norway.
- **Honors and Awards**
- Holding workshops, seminars, extension lectures and video conferencing lectures to update students' knowledge is a salient feature of the Institute.
 - Dr. Abdul Hai Alawi Gold Medal for the topper student of MSc Applied Psychology.
 - Human Development Fund (HDF) Merit Scholarship for the two toppers of MSc Semester II.



○ **Institutional Linkages**

The Institute has linkages with different external bodies in order to share resources and provide practical training and placements to its graduating students.

- Child Protection and Welfare Bureau, Lahore
- Services Hospital, Lahore
- Mayo Hospital, Lahore
- Ganga Ram Hospital, Lahore
- Surgical Unit-II, Jinnah Hospital, Lahore
- Fountain House, Lahore
- Punjab Institute of Mental Health, Lahore
- National Society For Mentally And Emotionally, Handicapped Children Lahore
- Shaikh Zayed Hospital, Lahore.

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

Telephone (s): +92-42-99230355

Fax Number (s): +92-42-99230242

E-mail Address (s): director.ibb@pu.edu.pk, information.ibb@pu.edu.pk

○ **Undergraduate and Postgraduate Programs**

The Institute offers 4-years BS Biochemistry, BS Biotechnology and 2-years M. Sc. Biochemistry/Biotechnology degree programs at the undergraduate and postgraduate levels. During the academic session 2017-18, more than 7000 students applied for admission in various degree programs of the Institute. However, due to limited seats available, only few top merit candidates could be accommodated. The overall strength of students in various semesters of BS and M.Sc. degree programs is around 350 and for the Academic session 2017-18, the number of admitted students was 75 and 40, respectively.

○ **MS and PhD Programs**

The Institute also offers two years MS Biochemistry/ Biotechnology and 3-5 years Ph.D. degree programs that run under the semester system. During the academic session 2017-18, the 40 students were admitted in MS Biochemistry/MS Biotechnology while 07 in Ph.D. Biochemistry/Ph.D. Biotechnology degree programs.

○ **Academic Achievements**

- The Institute of Biochemistry and Biotechnology (IBB) was established in 1996 with the aims at producing the knowledgeable and curious students and future scientists that are skilled for problem-solving, self-directed learning, experimental design, critical evaluation and presentation of scientific results in the fields of modern biochemistry, cell and molecular biology, and biotechnology. Since the first academic session that was started in 1997-98, we are committed to provide a cooperative and stimulating environment to our graduate, postgraduate students and group leaders for the pursuance of academic and research activities. A highly qualified and committed faculty,



a well-designed building, adequate laboratory infrastructure, modern library facilities and a stimulating environment has ensured the recognition of the Institute as a center of excellence in the fields of biochemistry and biotechnology, in the country.

- In order to augment and strengthen the institutional research capacity and teaching standards, we are also in the process of establishing research and academic linkages with foreign universities and local industry, in near future.

SCHOOL OF BIOLOGICAL SCIENCES

Telephone (s): +92-42-99230960

Fax Number (s): +92-42-99230980

E-mail Address (s): info.sbs@pu.edu.pk

○ **MS and Ph.D. Programmes**

- Presently, 109 research scholars 45 MPhil and 64 Ph.D., are working in the School for their MPhil. and Ph.D. degrees. Most of the students admitted in 2013-14 have obtained their Ph.D. degrees. Remaining students of this batch are fairly advanced in their research projects and are in different stages of compiling their data, write up of thesis and giving final touches to their research work. The 2015-16 scholars are fairly advanced in their research projects and are making satisfactory progress. The 2017-18 batch have completed their prescribed course work and are in their initial stages of planning experiments and running pilot experiments. The 2018-19 batch is in the initial stages of their course work.
- The Ph.D. students of the School have undertaken their mandatory Semester and Comprehensive Examinations, which they have passed with excellent scores

○ **Foreign Academic Linkages**

| Sr. No. | Name of Researcher/ Sponsoring Agency | Title of research project with duration | Collaborating scientist/institution | Joint objectives |
|---------|---------------------------------------|---|---|------------------|
| 1. | Dr. Naeem Rashid | | 1. Prof. Tadayuki Imanak, Ritsume Kikan University Shuga 2. Prof. Hoorayuki Atomi, Kyoto University, Kyoto 3. Prof. Masaki Morikawe, Hokkaido University, Hokkaido, Japan. 4. Dr. Osman Mirza, University of Copenhagen, Denmark 5. Prof. Raja Noor Zahia, University Putra, Malaysia 6. Prof. Ziao-Feng Tang, Wuhan University, China | |



| | | | | |
|----|--|---|--|--|
| 2. | Dr. Abdul Rauf Shakoori | | 1. University of Vermont Medical Center Vermont, USA | |
| 3. | Dr. Waheed Akhtar | | 1. Center for Comparative Medicine, School of Medicine, University of California, Davis, USA | |
| 4. | Dr. Sadaf Naz Deutsche Forschungsgemeinschaft, Germany, LO 1555/8-1, | Molecular characterization of complex movement disorders with predominant dystonic features in consanguineous families. 2015-2018 | Deutsche Forschungsgemeinschaft, Germany | |
| 5 | Dr. Sadaf Naz psych \$4100, University of Minnesota, USA | Molecular characterization of Psychotic disorders in Pakistan. 2016-2017 | University of Minnesota, USA | |
| 6 | Dr. Sadaf Naz | | 1. National Institutes of Health, USA 2. Johns Hopkins University, USA 3. University of Minnesota, USA 4. University College London, UK 5. University of Helsinki/Karolinska Institute (Finland/Sweden) 6. University of Luebeck, Germany | |

○ **Institutional Linkages**

Developed linkages with KEMU and signed MOU



CENTRE FOR APPLIED MOLECULAR BIOLOGY

Telephone (s): +92-42-35293135-36

Fax Number (s): +92-42-35293148

E-mail Address (s): director.camb@pu.edu.pk

○ **MS and PhD Programmes**

CAMB has offered M.Phil and Ph.D programmes in Molecular Biology & Forensic Sciences

○ **Academic Achievements**

23 M.Phil students have been completed their M.Phil. 27 M.Phil and 16 Ph.D students are already enrolled to pursue their degrees.

○ **Institutional Linkages**

CAMB always gives importance to develop linkages with other public and private institutions of the country. The centre is providing research platform to the students of various universities /organizations including

- University of Agriculture, Faisalabad.
- Govt. College University, Lahore
- Bahauddin Zakariya University, (Sub-Campus), Lahore
- Bahauddin Zakariya University, Multan
- University of Veterinary and Animal Science, Lahore
- Govt. College for Women, Gulberg, Lahore
- Kinnaird College, Lahore

Faculty of Health Sciences

FACULTY OF HEALTH SCIENCES

Telephone (s): 042-99210833

E-Mail Address (s): dean.hs@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

| Sr. No. | Admission/ Discipline name | Degree |
|---------|------------------------------|-----------------------|
| 1 | Doctor of Physiotherapy | DPT (5-year) |
| 2 | Medical Lab Technology | B.Sc. (Hons.) 4- year |
| 3 | Medical Imaging Technology | B.Sc. (Hons.) 4- year |
| 4 | Operation Theater Technology | B.Sc. (Hons.) 4- year |
| 5 | Cardiac Perfusion Technology | B.Sc. (Hons.) 4- year |
| 6 | Optometry | B.Sc. (Hons.) 4- year |
| 7 | Dental Technology | B.Sc. (Hons.) 4- year |
| 8 | Anesthesia Technology | B.Sc. (Hons.) 4- year |



○ **Total number of Students in different disciplines**

| Sr. No. | Admission/ Discipline name | Number of students | No. of Boys | No. of Girls |
|---------|------------------------------|--------------------|-------------|--------------|
| 1 | Medical Lab Technology | 9 | 2 | 7 |
| 2 | Medical Imaging Technology | 9 | 0 | 9 |
| 3 | Operation Theater Technology | 8 | 4 | 4 |
| 4 | Doctor of Physiotherapy | 15 | 4 | 11 |
| 5 | Cardiac Perfusion Technology | 8 | 1 | 7 |
| 6 | Optometry | 9 | 3 | 6 |
| 7 | Dental Technology | 7 | 2 | 5 |
| 8 | Anesthesia Technology | 8 | 1 | 7 |
| | Total | 73 | 17 | 56 |

○ **Institutional Linkages**

- M. Phil & Ph.D Memorandum of Understanding Between Faculty of Health Sciences and Different Departments and Faculties of University of the Punjab, Lahore
 - MOU for mutual cooperation for Education of Graduates of Health Disciplines for MS/M.phil/Ph.D in medical Education among the Incharge Dean Faculty of Health Sciences, Director IER PU Lahore, and Dean Faculty of Education PU Lahore.
 - MOU for Mutual cooperation for Education of Graduates of health Disciplines for MSc/M.phil/Ph.D in Biostatistics & Epidemiology between Incharge Dean Faculty of Health Sciences PU, Lahore and Principal CSAS PU, Lahore.
 - MOU for mutual cooperation for Education of Graduates of Health Disciplines for Executive-MBA/M.phil/PhD in Hospital & Health Management between the Incharge Dean Faculty of Health Sciences, and Director, IBA PU, Lahore
 - MOU for mutual cooperation for Education of Graduates of Health Disciplines for MS in Human Resource Management/MS in Health Administration/M.phil/Ph.D in Health and Hospital Administration between the Incharge Dean Faculty of Health Sciences, and Director, IAS PU, Lahore.
 - MOU for mutual cooperation for Education of Graduates of Health Disciplines for M.phil/Ph.D in Hospital & Healthcare Quality Assurance between the Incharge Dean Faculty of Health Sciences, and Director, IQTM PU, Lahore.
 - Memorandum of Understanding Mutual Cooperation for Education of Graduates of health Sciences for M.phil/Ph.D among the Incharge Dean Faculty of Health Sciences, Principal College of Pharmacy PU, Lahore and Dean Faculty of Pharmacy PU Lahore.
 - Memorandum of Understanding Between School of Biological Sciences (SBS) and Department of postgraduate Studies and Translational Research (DPSTR) for Mutual Cooperation for Education of Graduates of Health Sciences for M.Phil.Ph.D between the Incharge Dean Faculty of Health Sciences, and School of Biological Sciences PU Lahore.



- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Chairman Department of Botany PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Chairman Department of Zoology PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Director School of Physical Sciences PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Chairperson Department of MMG PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Acting Director IBB PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Director CHEP PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Director CEMB PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education and Research of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Dean Faculty of Engineering & Technology PU, Lahore.
- Memorandum of Understanding Mutual cooperation for Education and Research of Graduates of health Sciences for M.Phil/Ph.D between the Incharge Dean Faculty of Health Sciences, and Director CAMB PU, Lahore.
- Memorandum of Understanding Between Faculty of Health Sciences, University of the Punjab, Lahore and Different Universities/Educational Complex/Institutes/Centers
 - Memorandum of Understanding between University of the Punjab, Lahore Pakistan and King Edward Medical University, Lahore.
 - Memorandum of Understanding between University of the Punjab, Lahore Pakistan and Fatima Jinnah Medical University, Lahore.
 - Agreement Faculty of Health Sciences university of the Punjab, Lahore Pakistan and Amina Inayat Medical & Education Complex
 - Memorandum of Understanding between University of the Punjab, Lahore Pakistan and Doctors Hospital and Medical Center, Lahore.
 - Memorandum of Understanding between University of the Punjab, Lahore Pakistan and Institute of Orthopedics and Rehabilitation.



- Memorandum of Understanding between University of the Punjab, Lahore Pakistan and Alnoor Diagnostic Centre, Lahore.
- Memorandum of Understanding between University of the Punjab, Lahore Pakistan and Gulab Devi Medical Complex, Lahore.

Faculty of Oriental Learning

DEPARTMENT OF ARABIC

Telephone (s): +92-42-99233130, 99233116

Fax Number (s): +92-42-99233130

E-mail Address (s): chairman.arabic@pu.edu.pk

- **Undergraduate and Postgraduate Programmes**

Diploma in Arabic & M.A. Arabic programs are running in Arabic Department.

- **MS and PhD Programmes**

M. Phil. and Ph. D. Arabic programs are running in Arabic Department.

- **Academic Achievements**

Two M. A. students got 1st positions in M. A. Arabic Part I, II and M.A. Arabic P-II Twelve students did their research work and wrote M.A. theses. Seventeen M. Phil. Arabic students completed their research work and awarded degrees. Three Ph. D. Arabic students completed their research work and awarded degrees.

UNIVERSITY ORIENTAL COLLEGE

Telephone (s): +92-42-99212272, 99211621

Fax Number (s): +92-42-9910831

E-mail Address (s): principal.oriental@yahoo.com

- **Post Graduate level departments**

5 (Arabic, Persian, Urdu, Punjabi, Kashmiryat)

- **Under Graduate Certificate/Diploma Classes in the Institute of Languages = 15**

54 Faculty Members are teaching the Post Graduate and Certificate/Diploma classes of the above of the Oriental College.

At present 901 students are studying in different disciplines

(M.A 188 + M.Phil 85 + Ph.D 48 + Diploma in Languages 254 = 575)

CONFUCIUS INSTITUTE

Telephone (s): 042-99233139

E-mail Address (s): directorconfucius@pu.edu.pk

- **Academic Program (Short Courses)**

1. Chinese Language Courses for credit courses (compulsory and optional)
2. CLC 1, CLC 2, CLC 3, CLC 4 and CLC 5 for Chinese language lovers.



3. Confucius Institute offers free of cost CLC 1 and CLC 2 to University of the Punjab teachers and employees.
 4. CLC course for teaching sites outside of PU's campus.
- Confucius Institute also offers the Chinese language proficiency test services.

Academic Session

In 2017-18, around 300 Students and employees from various departments have participated in the following courses at Confucius Institute.

1. Chinese Language Course 1
2. Chinese Language Course 2
3. Chinese Language Course 3
4. Chinese Language Course 4
5. Chinese Language Course 5

Faculty of Pharmacy

PUNJAB UNIVERSITY COLLEGE OF PHARMACY

Telephone (s): +92-42-99211616

Fax Number (s): +92-42-99211624

E-mail Address (s): principal@pharmacy.pu.edu.pk

The Punjab University College of Pharmacy (PUCP) formerly known as Department of Pharmacy is the oldest and the prestigious Pharmacy institute in Pakistan. The Mission of the College is to provide the Pharmacy Education of high quality through excellent courses as approved by Pakistan Council of Pharmacy (PCP), Higher Education Commission (HEC) and Inter University Faculty Board (IUFB), constituted by the Chancellor/Governor of the Punjab conducted within a creative and friendly environment. The Faculty consists of outstanding professionals who are fully committed to guide the students in their acquisition of learning under the supervision of Dean Prof. Dr. Khalid Hussain and Principal Prof. Dr. Nadeem Irfan Bukhari. The College has the advanced teaching and student learning technologies, including digital white boards, recordable lecturing, etc. The interaction between teachers and students creates the learning environment which facilitates mastery of professional skills and knowledge. PUCP is accredited with Pakistan Council of Pharmacy under Pharmacy Act.

After upgrading the Department of Pharmacy to Punjab University College of Pharmacy, all laboratories have been re-organized and developed with financial assistance of the Higher Education Commission.

Testing of drugs and medicines as antimicrobial agents are now possible due to the modern facilities provided in the laboratory of Pharmaceutical Microbiology.



Industrial Pharmacy Section has also been upgraded with pharmaceutical machinery and with locally manufactured equipment. Recently, equipments have been added in the Laboratory for the Quality Management and a laboratory on nanomedicine has been established.

To provide better research opportunities, the College library is well equipped with textbooks, reference books and scientific research journals in various disciplines of Pharmaceutical Sciences having latest research work to the students and professionals. A facility of computer lab and Internet is also provided to the students.

At present there are about 1408 students studying in various classes of the University College of Pharmacy. The 302 students are studying in postgraduate class of M. Phil Part-I & II (Pharmacy) and in Ph.D Pharmacy programmes. A number of 110 new books for the session 2017-18 have added in our library.

○ **Undergraduate and Postgraduate Programmes**

In our College following regular classes of Undergraduate Degree Programme (Pharm. D) comprising of five years is regularly conducted throughout the each academic year.

- Pharm D Morning Session
- Pharm D Evening Session

○ **M.Phil and PhD Programmes**

In our Faculty regular classes of M.Phil and Ph.D. are conducted in following four disciplines

- Pharmaceutical Chemistry
- Pharmaceutics
- Pharmacology
- Pharmacognosy

○ **Foreign Academic Linkages**

- DeMont Fort University, UK for International PhD (Individual faculty member)
- University Sian Malaysia (USM)

○ **Honours and Awards**

- ISO 9001:2008 certification
- Two of Faculty members have won the research project grants awarded by HEC under NRPU scheme.

○ **Institutional Linkages**

- a. DeMont Fort University, UK for International PhD (Individual faculty member)
- b. Allama Iqbal Medical College (Jinnah Hospital), Lahore
- c. The CCL Pharmaceutical Laboratories, Lahore
- d. Highnoon Laboratories, Lahore



Faculty of Sciences

CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS

Telephone (s) +92-42-99233133-35, +92-42-99231136

Fax Number (s): +92-42-99231139

E-Mail Address (s): director.cssp@pu.edu.pk

○ **MS and Ph.D. Programmes**

- M.Phil. Solid State Physics
- M.Phil. Microelectronic Engineering & Semiconductor Physics
- MS. Nanotechnology
- Ph.D. Solid State Physics
- Ph.D. Microelectronics/ Nanotechnology

○ **Academic Achievements**

The Centre of Excellence in Solid State Physics was established in 1973. The major aim of establishing the Centre in this field was to provide the country with technically trained manpower and to establish research facilities in the field of solid state physics. The Centre offers M.Phil. degrees, Ph.D. degree and collaborative research work. The analytical facilities established in the Centre were successfully utilized to help various projects of National Importance. Students of various universities of Pakistan are offered these analytical facilities, and hundreds of samples of many different students have been analyzed, through ASIP and HEC, to date. Centre of Excellence in Solid State now boasts to have established facilities for theoretical and experimental research in the fields of materials preparation and characterization to device fabrication and characterization.

| Achievements | 2017-18 |
|---------------------------------------|---------|
| Number of faculty members | 13 |
| Number of adjunct faculty members | 35 |
| Number of books & Journal | 4269 |
| Number of M.Phil. students enrolled | 445 |
| Number of Ph.D. students enrolled: | 25 |
| Number of students completing M.Phil. | 68 |
| Number of students completing Ph.D. | 1 |

○ **Foreign Academic Linkages**

- At International level
 - School of Chemistry, University of Manchester, UK
 - Chinese Academy of Sciences Beijing, China
 - Laser Centre, University Technology Malaysia
 - Institute of Electronics, York University, York, UK



○ **Institutional Linkages**

- At National level
 - University of Engineering & Technology, Lahore.
 - Islamia University, Bahawalpur
 - Lahore College for Women University, Lahore
 - Govt. College University, Lahore
 - Bahauddin Zakariya University, Multan
 - Forman Christian College, Lahore
 - National Centre of Physics, Islamabad

CENTRE FOR HIGH ENERGY PHYSICS

Telephone (s) +92-42-99231137

E-Mail Address (s): director.chep@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

During this period, 59 students completed their BS (4-year) in Computational Physics and 71 students completed their M. Sc. in Computational Physics.

○ **MS and Ph. D. Programmes**

During this period, 14 students completed their M. Phil study in High Energy Physics, 01 student completed Ph.D. in High Energy Physics.

CENTRE FOR INTEGRATED MOUNTAIN RESEARCH

Telephone (s): +92-42-99230625, 99230587

Fax Number (s): +92-42-99230624

E-mail Address (s): cimrpu87@gmail.com. Director.cimr@pu.edu.pk

○ **Postgraduate Programmes**

M.Sc. in Mountain Conservation and Watershed Management (MCWM) – Regular 2 Years
This two-year M.Sc. Part I and Part II degree program each possess 25 and 27 students respectively thus a sum of 52 students are enrolled. The total numbers of student who have completed their Masteral degree in period are 06.

CENTER FOR UNDERGRADUATE STUDIES

Telephone (s): +92-42-99232068

Fax Number (s): +92-42-99322057

E-mail Address (s): director.hons@pu.edu.pk

Centre for Undergraduate Studies was established in 2007. Currently it is successfully running BS (4 Years) program for Chemistry, Botany and Zoology. Students are admitted in their main departments and then sent to the Centre for first two years, where they learn compulsory subjects along with electives. Centre is also the focal point for BS (4 Years) in affiliated colleges



and is providing curriculum, scheme of studies and guidelines to the affiliated colleges. Faculty at CUGS is making significant research output each year. With curricular activities, extra-curricular activities are also arranged in the Centre. One-day tour and annual sports gala are among these. In order to nourish strong interpersonal skills among students as well as to develop a cultured and dynamic student community, Centre for Undergraduate Studies has also organized various seminars, competitions and quizzes for students. Annual dinner was also arranged where the successful players were awarded trophies and certificates. Development of Aloe Vera Research laboratory is completed during this period, and many books have been purchased for library. At present there are more than 3500 books in the library of different disciplines from which students benefit whenever they desire. In addition, many intellectual and academic journals are also regularly delivered to the library for the students. Center also has the credit of being second most important venue for entry tests after examination halls. Video conference facility and Al Raazi Hall are the most important and fully engaged assets of the Center.

○ **Undergraduate & Postgraduate Programs**

- First four semester of BS (4 Years) Botany
- First four semester of BS (4 Years) Chemistry
- First four semester of BS (4 Years) Zoology
- First four semester of BS (4 Years) Statistics (M + E); till 2017

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

Telephone (s): +92-42-99233121-2

Fax Number (s): +92-42-99233120

E-mail Address (s): principal.cees@pu.edu.pk

○ **Undergraduate and Postgraduate Programs**

- BS Environmental Sciences (Morning & Evening)
- M.Sc. Applied Hydrology (Morning)
- MSc. Tourism and Hospitality Management (THM) Morning & Evening Program
- PGD Occupational Health & Safety (Evening) Program

○ **MS/M.Phil. and PhD Programs**

- MS Environmental Sciences
- Ph.D Environmental Sciences
- M.Phil Applied Hydrology
- Ph.D Applied Hydrology
- M.Phil Geomatics
- Ph.D Geomatics



○ **Academic Achievements**

The College of Earth and Environmental Sciences is successfully running BS, M.Sc. MS/M.Phil. and PhD degree programs in the disciplines of Environmental Sciences, Applied Hydrology, Geomatics, Tourism and Hospitality Management and PGD in Occupational Health & Safety. Presently, CEES has enrolment of about 679 Students in various disciplines during the academic session 2017-2018. Moreover, CEES has produced 13 PhD, 60 MS/ M.Phil. and 103 BS / M.Sc. during the academic session 2017-2018. In addition to that the faculty members of the CEES have published more than 43 research publications in the national / international journals / conferences during the academic year 2017-2018.

○ **Institutional Linkages**

- University of Windsor, Ontario, Canada
- M/s Wisey's Germany
- American Rainwater Catchment System (Pakistan Chapter)
- Pakistan Council for Renewable Water Resources (PCRWR)
- PCRET, Pakistan
- Pakistan Meteorological Department
- Ministry of Climate Change
- WAPDA
- Soil Survey of Pakistan
- National Cleaner Production Centre (NCPC), Islamabad
- Indus Consortium
- WWF (Pakistan)
- Bulleh Shah Packages
- Waste Busters
- The Urban Unit
- ECO

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

Telephone (s): +92-42-35962612-4

E-mail Address (s): info.stat@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- BS Statistics (4 years) – Regular & Self Supporting (Undergraduate)
- BS Operation Research (4 years) – Regular & Self Supporting (Undergraduate)
- BS Actuarial Science (4 years) – Regular & Self Supporting (Undergraduate)
- M.Sc. Statistics – Regular & Self Supporting (Postgraduate)
- M.Sc. Actuarial Science – Regular & Self Supporting (Postgraduate)
- M.Sc. Biostatistics – Self Supporting (Postgraduate)
- Master of Information and Operational Management (MIOM) – Self Supporting (Postgraduate)
- M.Sc. Business Statistics and Management (MBSM)– Self Supporting (Postgraduate)



- **MS and PhD Programmes**
 - M.Phil – Regular
 - PhD – Regular
- **Academic Achievements**
 - Admissions to all the academic programs were successfully made;
 - Examinations to all the academic programs were timely conducted and results were also announced well within stipulated time.

DEPARTMENT OF GEOGRAPHY

Telephone (s): +92-42-99230419

Fax Number (s): +92-42-99231239

E-mail Address (s): office.geog@pu.edu.pk

- **Undergraduate and Postgraduate Programmes**
 - BS Regular Programme
 - BS *Selfsupport Programme*
 - M.Sc. Regular programmes
- **MS and Ph.D Programmes**
 - M. Phil. Regular programme
 - M. Phil. Self-support programme
 - Ph.D. in Geography
- **Academic Achievements**

36 M.Phil. Degrees are awarded.
- **Honors and Awards: 1**

DEPARTMENT OF MATHEMATICS

Telephone (s): +92-42-99231241, 99231091

Fax Number (s): +92-42-99230329

E-mail Address (s): chairman.math@pu.edu.pk

- **Undergraduate and Postgraduate Programmes**
 - BS 4 Years
 - M.Sc. 2 Years (Morning/Self-Supporting Program)
- **M.Phil. and PhD Programmes**
 - M.Phil. 2 Years
 - Ph.D. 3-5 Years
- **Academic Achievements**
 - 08 Ph.D. Scholars completed their PhD
 - 36 M.Phil. Scholars completed their M.Phil.
 - 96 M.Sc. students completed their M.Sc.
 - 26 BS students completed their BS



○ **Foreign Academic Linkages**

- School of Mathematical Sciences, Universiti Sains Malaysia, Penang, Malaysia
- School of Engineering, Manufacturing and Mechanical Engineering, University of Birmingham, UK.

○ **Honours and Awards**

Dr. Nuaman Raza (Assistant Professor), was Awarded the Best Departmental Award for the year 2017.

○ **Institutional Linkages**

- External Examiners from different Universities for Viva Voce of M.Phil./MS and Ph.D.
- 04 Post-graduate Colleges are affiliated with the department at M.Sc. level.

DEPARTMENT OF PHYSICS

Telephone (s): +92-42-99231243, 99230428

Fax Number (s): +92-42-35856892

E-mail Address (s): info.physics@pu.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- BS (H) in Physics – Regular Undergraduate
- M.Sc. Physics – Regular (Morning) Postgraduate

○ **MPhil and PhD Programmes**

- M.Phil – (Regular & Replica Afternoon Programme)
- PhD – Regular

○ **Academic Achievements**

The total numbers of students who have completed their degrees during 01.10.2017 to 30.09.2018 are 111 (30 BS, 58 MSc. 22 MPhil and 1 Ph.D.).32 research papers have been published in National and International Research Journals by the faculty members in the last academic year and many are submitted.

○ **Foreign Academic Linkages**

Here is a list of some foreign institutions:

- Department of Radiation Medicine, University of Kentucky, USA.
- Southside Regional Medical Centre, Petersburg, VA, USA.
- Department of Electrical Engineering and Computer Science, Michigan State University, USA

○ **Institutional Linkages**

PINSTECH- Islamabad, INMOL- Lahore, Shaukat Khanum Hospital- Lahore, SUPARCO- Lahore, Govt. College University- Lahore, Centre of Excellence in Solid State Physics Department of Meteorology- Lahore and PCSIR-Lahore.



DEPARTMENT OF SPACE SCIENCE

Telephone (s): +92-42-99233107

Fax Number (s): +92-42-9923106

E-mail Address (s): chairman.spsc@pu.edu.pk

○ Undergraduate and Postgraduate Programmes

B.S in Space Science

B.S in Space Science (Replica)

M.Sc. in Space Science

○ MS and PhD Programmes

M.Phil. in Space Science – Regular

M.Phil. in Space Science – Replica

PhD – (old scheme)

○ Academic Achievements

- Admission to all the academic programs were successfully made;
- Examinations to all the academic programs were timely conducted and results were also announced well within stipulated time;

○ Institutional Linkages

- SUPARCO
- Urban Unit
- WWF
- NESPAK
- Soil Survey of Pakistan
- Geological Survey of Pakistan
- Pakistan Water Research Council
- Pakistan Meteorological Deptt.
- Punjab Forest Department
- PMDFC

INSTITUTE OF CHEMISTRY

Telephone (s): +92-42-99230463

Fax Number (s): +92-42-9231269

E-mail Address (s): director@chem.pu.edu.pk

○ Undergraduate & Postgraduate Programs

- BS 4 Year Program
- M.Sc Morning
- M.Sc Evening/self supporting program

○ MS & PhD Programs

- M.Phil (Fall and Spring)
- Ph.D (Fall and Spring)



INSTITUTE OF GEOLOGY

Telephone (s): +92-42-99230467, 99231267

Fax Number (s): +92-42-35846501

E-mail Address (s): director.geo@pu.edu.pk

○ **Undergraduate and Postgraduate Programs**

During the academic session 2017-18 the Institute of Geology enrolled 90 students in BS Applied Geology (04 years) First Professional, Morning & Replica, while 34 students in M.Phil Applied Geology and 05 students admitted in Ph.D. Applied Geology degree program

○ **M.Phil/PhD Programs**

Presently the Institute of Geology is running following M.Phil. / PhD programs with total strength of 91 and students.

- M.Phil. Applied Geology
- PhD Applied Geology

○ **Foreign Academic Linkages**

Institute of Geology has following foreign linkages programs.

- Linkages with Seismic Micro-Technology Inc. Katy Freeway, Houston Texas, USA.
- DGB Earth Science, Netherlands
- Hydrological Forecast and Warning Department, Swedish Meteorological and Hydrological Institute, Sweden.
- M/S Thies, Germany

○ **Institutional Linkages**

- Mines and Mineral Department Govt. of Punjab, Lahore
- Oil and Gas Development Corporation Limited (OGDCL), Islamabad
- Pakistan Atomic Energy Mineral Centre, Ferozepur Road, Lahore
- Environmental Protection Department (EPD), Govt. of the Punjab, Lahore
- Water and Power Development Authority (WAPDA), Lahore
- Pakistan Oil Fields Ltd.
- OMV Exploration Pakistan, Islamabad
- MOL Pakistan Oil and Gas Co. Islamabad
- Ocean Pakistan Limited.
- Associated Consultants Engineering (ACE), Lahore.
- National Engineering Services Pakistan (NESPAK), Lahore
- Road Research and Material Testing Institute, Canal Road, New Campus, Lahore
- Pakistan Institute of Nuclear Science & Technology (PINSTECH), Islamabad.



PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

Telephone (s): +92-42-99210969

Fax Number (s): +92-42-99212505

E-mail Address (s): principal@pucit.edu.pk

○ **Undergraduate and Postgraduate Programmes**

- BS Computer Science
- BS Software Engineering
- BS Information Technology
- M.Sc Information Technology

○ **MS and PhD Programmes**

- M.Phil Computer Science
- MPhil Remote Sensing & GIS
- Ph.D in Computer Science

○ **Academic Achievements**

- 100% increase in student intake at BS level
- Increase in PhD Faculty to 18

SCHOOL OF PHYSICAL SCIENCES

Telephone (s): +92-42-99230234

E-mail Address (s): dg.sps@pu.edu.pk

○ **M. Phil and PhD Programmes**

School of Physical Sciences is planning to start M. Phil and PhD degree programs in the fields of Chemistry, and Physics. However, currently SPS is facilitating students and researchers from University of the Punjab and other organizations in their research.

○ **Academic Achievements**

In School of Physical Sciences up till now 30 M. Phil students and 12 PhD have completed part of their research projects related to physical, biochemical and molecular sciences.

○ **Institutional Linkages**

University of the Punjab (Different Departments).

Punjab University Gujranwala Campus

Telephone (s): +92-55-9201221, 9201225-27

Fax Number (s): +92-55-9201223

E-mail Address (s): dg.grw@pu.edu.pk; sajidakhtarr@gmail.com

○ **Undergraduate and Postgraduate Programmes**

- BBA (Hons.) Banking & Finance, 4 Years Programme
- BBA (Hons.), 4 Years Programme



- B.Com (Hons.), 4 Years Programme
- M.Com, 3.5 Years Programme
- MA English, 2 Years Programme
- BSIT, 4 Years Programme
- M.Sc. IT, 2 Years Programme
- LL.B, 3 Years Programme
- LL.B, 5 Years Programme
- **MS and Ph.D Programmes**
 - MPhil Commerce
 - MCom 1.5 Years

○ **Institutional Linkages**

All the six departments at University of the Punjab Gujranwala Campus i.e., Banking & Finance, Business Administration, Commerce, English, Information Technology, and Law are working in collaboration with the parent departments of University of the Punjab at Lahore

Punjab University Jhelum Campus

Telephone (s): +92-544-448780, 0544-448770

E-Mail Address (s): administrator@pujc.edu.pk

- **Undergraduate and Postgraduate Programmes**
 - Bachelor of Business Administration
 - Bachelor of Computer science
 - Bachelor of Commerce
 - BS Administrative Sciences
 - L.LB (3years) & L.LB 5years

○ **Institutional Linkages**

All the five departments at University of the Punjab JHELUM Campus i.e., BSCS, Business Administration, Commerce, and Law are working in collaboration with the parent departments of University of the Punjab at Lahore.



Chapter

2

RESEARCH & DEVELOPMENT

- ***Research & Development***

Projects: (i) Completed (ii) Newly launched

- *Publications*

- *Conferences, Seminars and Workshops, etc.*

- *Research Journals*

- *Research Collaboration*

- *Indigenous*

- *Foreign Linkages*

- *Funding grants for R&D*

- *Operation of Office of Research, Innovation and Commercialization (ORIC)*



CHAPTER 2

Research & Development

Faculty of Arts & Humanities

CENTRE FOR SOUTH ASIAN STUDIES

○ Research and Development

- The Centre completed a series of near about 300 research publications comprising of Books, Journals, Research Aid Series, Monographs and Reports, etc. South Asian Studies (Bi-Annual Journal) regular and valuable publication of the Centre, is HEC Recognized X Category Research Journal. In Addition to that Centre as launch a new Journal “Journal of Indian Studies” in this year 2017. The Centre has organized number of Seminars on different topics of national and international importance.
- During the period from 2017-18, the Centre has organized number of seminars as well as. The Centre has published Five publications (2 books and 4 issues of two Bi-annual journals - South Asian Studies & Journal of Indian Studies).

○ Publications: Books/ Edited

▪ Books

| Sr. No. | Author | Title | Year |
|---------|------------------------|------------------------------------|------|
| 1 | Prof.Dr.Umbreen Javaid | SAARC: Performance & Challenges | 2018 |
| 2 | Prof.Dr.Umbreen Javaid | The Kashmir Dispute in South Asia. | 2018 |

▪ JournalSouth Asian Studies

| Sr. No. | Title | Year |
|---------|--|------|
| 1 | Journal of South Asian Studies Vol.33-No.1 (January-June, 2018) | 2018 |
| 2 | Journal of South Asian Studies Vol.32-No.2 (July-December, 2017) | 2017 |

▪ Journal of Indian Studies

| Sr. No. | Title | Year |
|---------|---------------------------------------|---------------------|
| 1 | Journal of Indian Studies Vol.2, No.2 | July- December 2017 |

○ Conferences, Seminars and Workshops, etc. (sponsors, oral Presentation+Poster Presentation)

| | | |
|--|---|----------|
| A Seminar on “China-Pakistan Economic Corridor”. | Xiaoqing Xie Associate Professor, China University of Geosciences, China | 21-11-17 |
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| A Lecture on "China-Pakistan Economic Corridor". | Dr. Zubair Iqbal Ghouri CEO, Lahore Knowledge Park(LKPC). | 22-11-17 |
| Debate "Model CCI : Debating Federalism" Hanns Siedal Foundation | Dr. Rehana Saeed Hashmi Professor, Department of Political Science, University of the Punjab, Lahore. | 03-12-17 04-12-17 |
| Ceremony " Inaugural Ceremony of Renovation & Up-gradation of Library & Computer Lab and Celebration of Recognition of New Research Journal of Indian Studies". | Prof. Dr. Zafar Mueen Nasar Vice-chancellor, University of the Punjab, Lahore. | 05-12-17 |
| A Mehfil-e-Milad Organized in CSAS | Director, CSAS and Faculty members& students | 13-12-17 |
| A Two Days International Conference on "Changing Regional Political Dynamics in South Asia". | Malik Muhammad Rafique Rajwana, Governor/ Chancellor, Govt. of Punjab, Chief Guest | 17,18-01- 18 |
| International Seminar on " <u>Ambedkar's Mission of Annihilation of Caste and Present Situation</u> ". (Sir Ganga Ram Heritage Foundation, Lahore.) | Saddique-ul-Farooq Chairman, Evacuee Trust Property Board Prof. Dr. Muhammad Zakria Zakar Vice-chancellor, University of the Punjab, Lahore. | 25-01-18 |
| A Seminar on "China-Pakistan Economic Corridor (CPEC) & Significance of Gwadar Port". | Brig. (R) Nadir Mir National Reform, Chairman, Nadir Mir on Launching of PNRM at Lahore. | 01-03-18 |
| A Lecture on " Terrorism: A Conceptual Quagmire". | Dr. Dayab Ali Assistant Professor, Department of Political Science, P.U. Lahore. | 06-03-18 |
| A launching ceremony of one year Post Graduate Diploma in " <u>Indian Studies</u> " | Khurshid Mahmud Kasuri Former Foreign Minister, Pakistan | 12-03-18 |



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| A Seminar on “ Indian and Pakistan As Successor States of British India”. | Ross Masud Former Legal Advisor, Ministry of Foreign Affairs, Pakistan. | 14-03-18 |
| <u>Programmes on Pakistan Day (23 March) to Celebrate:</u> | Dr. Jafar Riaz Kataria Assistant Professor, CSAS, P.U. Lahore. | 20-03-18 |
| 1-Quiz | | |
| 2-Discussion of Faculty | Dr. Abdul Majid Assistant Professor, CSAS, P.U. Lahore. | 21-03-18 |
| 3-Competitions (Debates & Singing National Songs). | Mir Waheed Akhlaq Research Fellow, CSAS, P.U. Lahore. | 22-03-18 |
| “Drug Abuse Prevention in Educational Institutions” | Ms. Maria Ali Project Officer, Anti Narcotic Force, Lahore | 02-03-18 |
| A Solidarity Walk “Against the Indian Atrocities in Occupied Kashmir”. | Director, All Faculty members and Students of Csas & Pol.Sc. | 04-04-18 |
| A Seminar on “Pakistan Maritime Affairs: Prospects & Challenges”. | Commodore S.M. Shahzad Commodore, Pakistan Navy | 05-03-18 At 12:00 Noon |
| A Seminar on “ A Reflection on Indian Atrocities in Occupied Kashmir”. | Ms. Mushaal Hossein Mullick w/o Yasin Malik | 05-04-18 At 2:30 Noon |
| A memorial Seminar on “1 st Death Anniversary of Prof. Dr. Muhammad Jahangir Tamimi”. | Prof. Dr. Umbreen Javiad, Director, CSAS, P.U., Lahore. | 16-04-18 |
| A session on “Women and Youth Participation in Electoral Process”. | Iram Fatima, Officer Incharge Bedari, Lahore | 23-04-18 |
| A Seminar On “ Kashmir: Current Situation and Pakistan’s Policy Options”. | Dr. Nazir Hussain Chairman, SPIR, Quaid-e- Azam University, Islamabad. | 26-04-18 |
| A training workshop on “SPSS” | Dr. Qaisar Khalid Mahmood, Currently Serving, Department of Sociology, International Islamic University, Islamabad | 05-05-18 |



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| A Seminar on “ Nuclear Regulatory Framework and Oversight Process in Pakistan.” | Dr. Mohammad Anwar Habib, Former Chairman, Pakistan Nuclear Regulatory Authority. | 08-05-18 |
| A inauguration ceremony of book title “Jang-e-September ki Yadian by Altaf Hassan Qureshi” | Lieutenant. General (R) Abdul Qadir Baloch, Wazir-e-Safran, Government of Pakistan | 10-05-18 |
| A Seminar on “ The Geo Strategic Dimensions and Post 9/11 Afghanistan.” | Brig. (R) Ishaq Ahmed, Director, Intelligence and International Security Studies with South Asian Strategic Stability Institute, a think tank, Islamabad. | 11-05-18 |
| A seminar on “Electoral Reforms with Youth”. | Iram Fatima, Officer Incharge Bedari, Lahore | 17-05-18 |
| A Seminar on “ State Terrorism in Indian Occupied Kashmir”. | Former Ambassador, Javid Husain, President, Lahore Council for World Affairs, Pakistan. | 28-06-18 |
| A National Seminar on “Requirement of Fair Independent Election”. | Justice Faqir Muhammad Khokar, S.M. Zafar, Altaf Hasan Qureshi and Prof. Dr. Umbreen Javaid..... Pakistan Institute of National Affairs, (Paina). | 02-07-18 |
| A Seminar on “Election Politics 2018: Issues and Challenges”. | Sulman Abid, Political Analyst and Columnist | 12-07-18 |
| A Seminar on “Significance of Voting: Election 2018”. | Fahad Shahbaz, Anchor Person, Dunya Media Group, Lahore. | 18-07-18 |
| To celebrate 14 th August following Events are arranged in CSAS (1) Students Debates (English) “Importance of National Unity”. | Conducted by Dr. Abdul Majid, Assistant Professor, Centre for South Asian Studies, P.U. Lahore. | 07-08-18 |



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| (2) National Songs, Cultral Dress Show. | Conducted by Mr. Waheed Akhlaq Research Assistant, Centre for South Asian Studies, P.U. Lahore. | 08-08-18 |
| A Seminar on "Independence Day". | Prof. Dr. Rafiq Ahmed, Former Vice-Chancellor, P.U. Lahore and Vice-Chairman, Nazria Pakistan Trust, Lahore. | 08-08-18 (At 11:00 am) |
| (1) A Round Table Discussion "Pakistan: A Way Forward". | Conducted by Dr. Marium Kamal, Assistant Professor, Centre for South Asian Studies, P.U. Lahore. | 09-08-18 |
| (2) Students Debates (Urdu) "Azaadi ki Ahmiyat". | Conducted by Dr. Jafar Riaz Kataria Assistant Professor, Centre for South Asian Studies, P.U. Lahore. | 10-08-18 |
| A Seminar on "Significance of Internal Harmony for National Independence". | Prof. Dr. Muhammad Akram Ch., Justice Faqir Muhammad Khokar, S.M. Zafar, Altaf Hasan Qureshi and Prof. Dr. Umbreen Javaid..... Pakistan Institute of National Affairs, (Paina). | 15-08-18 |
| A Seminar on "6 th September: A Tribute to Martyrs on Defence Day". | Brig. (R) Nadir Mir, Chairman, Pakistan National Reform Movement (PNRMO | 06-09-18 |
| A Workshop on "Child Marriage and its Impact on South Asian Society". | Ms. Irum Fatima, Programme Coordinator, Bedari. | 08-10-18 |
| A Inauguration Ceremony of "Indian Study Desk". | Prof. Dr. Niaz Ahmad Akhtar, Vice-Chancellor, University of the Punjab, Lahore. | 16-10-18 |
| A Seminar on " Child Bombers: From Innocence to Violence". | Dr. Sohail Habib Tajik, DIG, Sheikhupura. | 22-10-18 |



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| A Seminar on “Kashmir Issue and Violations of Human Rights”. | Justice (R) Faqir Muhammad Khokhar | 25-10-18 |
| Signing Ceremony “Mou with Lahore Centre for Peace Research”. | Prof. Dr. Niaz Ahmad Akhtar, Vice-Chancellor, University of the Punjab, Lahore. Prof. Dr. Umbreen Javaid & Prof. Dr. Mujahid Ali Mansoori Executive Director, LCPR | 08-11-18 |
| A Lecture on “Global Geopolitical Shifts and Pakistan”. | Former Ambassador Javid Husain, President, Lahore Council for World Affairs. | 28-11-18 |
| A Mehfile- Melad-un-Nabi (SAW) | All the Faculty members and Students of CSAS | 30-11-18 |
| A Workshop on “Research Methodology”. | Prof. Dr. Khalid Mahmood, Chairman, Department of Library & Information Science, University of the Punjab, Lahore. | 03-12-18 |
| A International Seminar on “Ambedkar Vision of Dalit Empowerment Through Education”. | Ijaz Alam Augustine, Minister of Human Rights & Minorities Affairs, Punjab Sir Ganga Ram Heritage Foundation, Lahore. | 06-12-18 |
| A Lecture on “Benefits of Opening Kartarpur Corridor for Sikh Community of South Asia”. | Prof.Dr.AkhtarSandhu, Department of History, University of Education, Lahore Dr. Kalyan Singh Kalyan, Assistant Professor, GCU, Lahore. | 12-12-18 |

○ **Research Journals**

▪ Journal of South Asian Studies Vol. 32 No.2

| Authors name | Article name | Journal with session |
|-----------------------|--|-----------------------|
| Muhammad Iqbal Chawla | One Belt One Road Summit 2017 and its Implications for CPEC: An Overview | (July-December, 2017) |
| Safeer Ahmad Bhat | Jammu and Kashmir on the Eve of Partition- A Study of Political Conditions | (July-December, 2017) |



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|---|---|-----------------------|
| Muhammad Hameed | Elephant and Rider Type Buddhist Diptych Type Portable Shrines from Gandhara | (July-December, 2017) |
| Abdul Majid | ASEAN's Institutional Structure and Economic Co-operation | (July-December, 2017) |
| Tahir Ashraf, Md. Nasrudin & Md. Akhir | Revisiting SAARC: A Perspective from Pakistan | (July-December, 2017) |
| Devid Kumar Basyal & Jin-Wan Seo | Employees' Resistance to Change and Technology Acceptance in Ne | (July-December, 2017) |
| by Jafar Riaz Kataria & Umbreen Javaid | Political Socialization in Pakistan: A Study of Political Efficacy of the Students of Madrassa | (July-December, 2017) |
| M. Gail Hickey | 'We weren't allowed to date': Unpacking U.S. South Asian Courtship Narratives | (July-December, 2017) |
| Iram Khalid | Counter Terrorism Police in Pakistan and Role of Police: A Way Forward | (July-December, 2017) |
| Nabila Asghar, Tanveer Ahmed Naveed & Shaista Saleem | Impact of Social, Political and Economic Globalization on Gender Inequality Index in Pakistan: A Time Series Analysis | (July-December, 2017) |
| Sadia Rafique & Khalid Manzoor Butt | Position of Women in Iran: An Analysis of Pre and Post Islamic Revolution 1979 | (July-December, 2017) |
| Zakia Shazeb & Shahzeb Khan | Neoliberal Epistemology in Pakistani Anglophone Fiction | (July-December, 2017) |
| Shabana Fayyaz | Footprints of ISIS in South Asia – Challenge to Regional Peace and Stability! | (July-December, 2017) |
| Inayat Kalim | China Pakistan Economic Corridor – A geo- economic masterstroke of China | (July-December, 2017) |
| Farhan Navid Yousaf | Human (In)Security in South Asia | (July-December, 2017) |
| Muhammad Khalid Khan, Ishfaq Ahmed, Rizwan Qaisar Danish & Muhammad Ramzan | Necessitating Human Resource Management Model in South Asia: A Rationale Perspective | (July-December, 2017) |
| <i>Farooq Ahmad Dar</i> | Iqbal and Jinnah: An Amalgamation of Thought and Real Politics | (July-December, 2017) |
| Hasina Afruj Shanta | The Caretaker Debate, 10th Jatiya Sangsad Elections and Recent Trends in Bangladesh Politics | (July-December, 2017) |



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|-------------------------------|--|-----------------------|
| Muhammad Asif & Ayaz Muhammad | Image of USA in Urban Pakistan: An Empirical Assessment | (July-December, 2017) |
| Munish Alagh | Building a case for developing institutions and communities in South Asia based on the Learning's from neo institutional economics | (July-December, 2017) |
| Muhammad Iqbal Chawla | One Belt One Road Summit 2017 and its Implications for CPEC: An Overview | (July-December, 2017) |
| <i>Safeer Ahmad Bhat</i> | Jammu and Kashmir on the Eve of Partition- A Study of Political Conditions | (July-December, 2017) |

- Journal of South Asian Stud
- Journal of Indian Studies Vol.3-No.2

| Authors name | Article name | Journal with session |
|--|---|-----------------------|
| Zubaida Zafar & Shoukat Ali | An Analytical Study of Conflict and Democracy in Bangladesh | (July-December, 2017) |
| Ahmed Usman, Shabbir Hussain & Muhammad Usman | Caste and Character of Candidates, Political Patronage and Voting Behavior in India | (July-December, 2017) |
| Awais Akhtar & M. Najam-ud-din Farani | A Biographical Sketch of European Travelers to India (1556-1707) | (July-December, 2017) |
| Farhat Nasreen | Pakistan-India Relations: Post Nuclear Scenario | (July-December, 2017) |
| Saqib Khan & Khalid Manzoor Butt | Cyber Technology, Radicalization and Terrorism in Pakistan | (July-December, 2017) |
| Kalsoom Ghanzafar, Rabia Aslam & Quratul Ain | Recruitment of Teachers in South Asian Countries | (July-December, 2017) |
| Muhammad Ikram & Sawaira Rashid | Challenges and Constraints in the way of China-Pakistan Economic Corridor: Indian Stance | (July-December, 2017) |
| Muhammad Saeed Meo, Shahzad Ali, Vina Javed Khan, Muhammad Haris & Muhammad Rizwan | Indo-Pak Relationship on Line of Control after Pakistan Inclusion in Afghan Soviet War 1979 | (July-December, 2017) |
| Shoukat Ali, Zubaida Zafar & Mussarrat | Ethnicity in Afghanistan: Pakistani Factor | (July-December, 2017) |
| Fauzia Ghani | India-Afghanistan Knot in South Asia: Implications for Pakistan 2000-2014 | (July-December, 2017) |



UNIVERSITY COLLEGE OF ART & DESIGN

○ **Research & Development**

- Prof. Dr. Shaukat Mahmood was serving as an HEC Professor under foreign Faculty Hiring Programme for the last 8 years.
- After expiry of the FFHP Prof. Dr. Shaukat Mahmood and Prof. Dr. Naseem Akhtar Said have been serving as Professor (on contract basis). They are actively engaged with students, research projects and the course work as well.

○ **Projects: Completed**

- “Contemporary Art in Pakistan”
- “Architecture Pakistan”
- “Lahore’s Monumental Architecture through the Ages: Historiography of Preservation”

○ **Publication**

- Dr. Sumaira Jawad. 2017. Feminist Discourse. University Historical Society. Vol. 30

| | | |
|---|---------------------------|--|
| 1 | Prof. Dr. Shaukat Mahmood | Mughal love for Cypress tree <i>Heritage</i> issue 29 Islamabad. |
| 2 | Prof. Dr. Shaukat Mahmood | Magic of Sawan-Bhadon in Shalamar Bagh <i>Heritage</i> Issue 29 Islamabad. |
| 3 | Prof. Dr. Shaukat Mahmood | Ali: The Philanthropist <i>Heritage</i> Issue 29 Islamabad. |
| 4 | Prof. Dr. Shaukat Mahmood | Abdu Sattar Eidi : Higher than Nobel <i>Heritage</i> Issue 30 Islamabad. |
| 5 | Prof. Dr. Shaukat Mahmood | Hanif Muhammad: The little master <i>Heritage</i> Issue 30 Islamabad. |

○ **Seminars**

- Organized by: Dr. Sumera Jawad
Seminar on “Role of Media in Pakistan Art”
Speaker: Ammar Masuad
Venue: Lecture Theatre
Date: Wednesday 13, December 2017

DEPARTMENT OF ARCHAEOLOGY

○ **Projects: Newly launched**

- Second season of excavation at Shorkot mound



○ **Publications: Books/Edited**

- Dr. Muhammad Hameed, Assistant Professor/ Incharge
Article: British Architecture of Lahore: An Introductory Note of their Religious and Educational Buildings
Published in: Journal of Punjab University Historical Society, Vol.31
- Miss Samia Tahir, Lecturer
Article: British Architecture of Lahore: An Introductory Note of their Religious and Educational Buildings
Published in: Journal of Punjab University Historical Society, Vol.31

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

○ **Publications: Books/ Edited**

Dr. Rizwan Akhtar Book Launched a book “Lahore, I am coming” Department of English Language & Literature on 14th December, 2017

- Dr. Amra Raza
 - The City as an Anthropomorphic Character in Aravind Adiga’s Fiction Journal of Research (Humanities) University of the Punjab, Lahore, Issue Vol. LIV Jan. 2018 (Category Z).
 - Political Discourse and US Strategic Narrative in Zeb-Un-Nissa Hamidullah’s Sixty Days in America, Journal of Political Studies, University of the Punjab, Lahore, Vol.24. Issue2, Winter, 2017 (Category X).
 - *Sir Syed’s Safarnama e ‘Musafir e London’ A Narratological Study of Anti Colonialism, Oriental College Magazine, Issue Vol. 92, No. 4, October to December 2017.*
- Dr. Shamaila Dodhy
 - The Unforgettable and Invisible Truth: A Study of Acquaintance Rape in Yejide Kilanko’s *Daughters Who Walk This Path*. *Pakistan Journal of Women’s Studies: Alam-e-Niswan* 25.1 (2018): 117-125. ISSN 1024-1256. HEC RECOGNIZED.
 - “Identity Construction and the Development of African Male Writings: A Study of Ngugiwa Thiong’o’s *Wizard of the Crow*.” *Journal of Language and Communication* 5.1 (2018): 86-94. ISSN: 2289-649X (Online).
 - Witnessing Trauma through Discordant Chronology of Words in Yvonne Vera’s *Under the Tongue* KEMANUSIAAN: The Asian Journal of Humanities. 25.2 (2018): 73-89. Print ISSN: 1394-9330 Online ISSN: 2180-4257. SCOPUS INDEXED.
- Dr. Khurshid Alam
 - Comparative Study of Feminist Voice: The Handmaid’s Tale and The Bell Jar” presented at conference “Women’s Spring: Feminism, Nationalism and Civil Disobedience.” Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, (23rd June 2018. UK).
 - “Itni Behuda Aurat!”: Lesbianism and Queer Spatial Politics in Angeline Maliks Chewing Gum. *Journal of Research (Humanities)*. Vol LIV Jan 2018.



- Shahzeb Khan
 - Beauty out of Chaos. A Parallel Study of Pakistan's Trauma Art and Literature. Vol 54 (January 2018).
- Dr. Aamir Aziz:
 - Gender Politics and Dualistic Othering: Possession, Christianity and the Repudiation of the Maternal / Feminine in *Desire Under the Elms*” *Journal of South Texas English Studies* Volume 7, Issue 2 (2018): 35-44.
 - Theatricality, the Spectacle's Veil and Allegory-in-Reverse in Arthur Miller's *The Crucible*.” *English Studies* 99.2 (2018): 183-193. (A Routledge Journal).
 - Environmental Deformation and Toxic Landscapes in Zulfikar Ghose's Poetry.” In *The Green World in Contemporary Poetry and Philosophy: Mapping Nature in the Twentieth and Twenty-First Centuries*. Brill Publishers, 2018.
- Zoya Jamil Ch
 - Comparative Study of Feminist Voice: *The Handmaid's Tale* and *The Bell Jar*” presented at conference “Women's Spring: Feminism, Nationalism and Civil Disobedience.” Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, (23rd June 2018. UK).
- Syeda Momina Masood
 - “Itni Behuda Aurat!”: Lesbianism and Queer Spatial Politics in Angeline Maliks Chewing Gum. *Journal of Research (Humanities)*. Vol LIV Jan 2018.
- **Conferences, Seminars and Workshops, etc.** (Sponsors, Oral Presentation + Poster Presentation)
Conferences, Seminars and Workshops held in the Department of English Language & Literature, University of the Punjab, Lahore
 - International Conference of TEDx in Punjab University at the Department of English Language & Literature on November 11th, 2017.
 - Dr. Rizwan Akhtar's Book Launch “Lahore, I am coming” Department of English on 14th December, 2017
 - Green Environment Day on 06th April, 2018, Department of English, PU, Lahore.
 - Documentary Screening of ‘True Cost’ by Global Shapes Hub and Fashion Revolution, on April 25th, 2018, Department of English, PU, Lahore.
 - B.S Students Summer Reading Fiesta June 2018. Department of English PU, Lahore
 - Team TedX Punjab University presented paper titled “Future Worth Dreaming About: TED and the Possibilities for an Empowered Youth / Institutions in Pakistan” at First National Conference of Allama Iqbal Open University on “Media in Postmodern Times: Challenges and Prospects on November, 2017.
 - Simulcast of TEDx 2018 “Doom. Gloom. Outrage. Uproar” in the Department of English, PU Lahore on 13th April, 2018.



- T.V Programme Khabardaar on November 16th, 2017 with renowned T.V presenter Aftab Iqbal.
- Sports Day on 29th March 2018 in the Department of English, PU Lahore.
- First National Conference on Counterbalancing Politics and Aesthetics in Pakistani Literature on May 05th, 2018 in collaboration with PHEC and Department of Information, Culture and Punjab Arts Council.
- Readers Drama and Theatre Festival (3 Days) in Collaboration with Lal Production House on May 14th – 16th 2018. Plays titled “The Windscreen”, “Rang-e-Noor” and “The Voice” were Staged in Department of English, PU Lahore.
- National. Research Presenter for Pakistani Literature in English since celebration of 70 Years Independence on 13th October, 2017.
- Hosted the first ever International Conference of TEDX in Punjab University at the Department of English Language & Literature on November 11th, 2017.
- Hosted Dr. Rizwan Akhtar’s Book Launch “Lahore, I’m Coming” in the Department of English Language & Literature on December 14th, 2017.

Participated in Conferences, Seminars and Workshops by English Department’s Faculty

- Prof. Dr. Amra Raza, Chair
 - Guest Speaker at the First International Conference on English Language, Literature, Education and Society ICELLES (13th –14th March 2018, LGU).
 - Speaker on Pakistani Writing in English in Punjab: 70Years. 13th October 2017, Pakistan Academy of Letters.
 - Chaired session at the First International Humanities Conference (13th – 14th October, 2017 FCCU, Lahore).
 - Speaker and Award Recipient at “Torch Bearers of Change: from Antigone to Malala Celebrating leading Women as Agents of Change. Unique Group of Institutions, Lahore (17th March 2018).
 - Speaker at International PhD Colloquium on “Selecting a PhD Topic” (19th March, 2018 IAS, PU, Lahore).
 - Chief Organizer of First National Conference on “Counterbalancing Politics and Aesthetics in Pakistani Literature (NCCPA 2018)” in collaboration with PHEC, Department of Information and Culture, and Punjab Arts Council (5th May 2018).
 - Chief Organizer of Reader's Drama and Theatre in collaboration with Lal Production house, (14th to 16th May 2018, Department of English, PU, Lahore).
 - Hooria Liaqat and Dr. Amra Raza. “Mythological Oppression in Anita Desai's Fasting, Feasting (1999)” presented at the conference “Women's Spring: Feminism, Nationalism and Civil Disobedience” organised by Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, United Kingdom.



- Shafaat Yaar Khan and Dr. Amra Raza. "Political Discourse and US Strategic Narrative in Zeb-un-Nisa Hamidullah's Sixty Days in America" *Journal of Political Studies*. Vol 24. Issue 2, Winter 2017 (Category X).
- Saasha Arif and Dr. Amra Raza. The City as an Anthropomorphic Character in Aravind Adiga's Fiction. *Journal of Research (Humanities)*. Vol LIV. Jan 2018.
- Shafaat Yaar Khan and Dr. Amra Raza. "Sir Syed's Safar Nama-e-Musafiran-e-London: A Narratological Study of Anti-Colonialism. Vol 92. No.4. 2017.
- Dr. Rizwan Akhtar, Assistant Professor
 - Chaired a session "Representing Gender Power Hierarchies in Fiction" at the First National Conference on Counter Balancing Politics and Aesthetics in Pakistani Literature. (5th May, 2018, Department of English, PU, Lahore).
 - Fatima Syeda and Dr. Rizwan Akhtar. Body, Power and Gendered Identity: Inscribed Bodies of Men in Partition Fiction. *Journal of Research (Humanities)*. Vol LIV Jan 2018. Published collection of poems, *Lahore, I Am Coming* (2017) PU Press, Lahore.
- Ayesha Barque, Assistant Professor
 - Speaker at PU Library Book Club June 2018 reviewing the book, *Guilt and Other Plays* by Usman Ali.
 - "Haiku in Athar Tahir's The Last Tea." *A Wind Blows*. Ed. M. Athar Tahir. 2018. 72-77.
 - "Energy in the Poetry of Shadab Zeest Hashmi – A Study of Trope and Syntax." *A Wind Blows*. Ed. M. Athar Tahir. 2018. 78-92.
- Dr. Khurshid Alam, Assistant Professor
 - Zoya Jamil Chaudhry and Khurshid Alam. Comparative Study of Feminist Voice: The Handmaid's Tale and The Bell Jar" presented at conference "Women's Spring: Feminism, Nationalism and Civil Disobedience." Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, (23rd June 2018. UK).
 - Speaker at PU Library Book Club May 2018 on the novel, *Noor* by Sorayya Khan.
 - Chaired session "Counterbalancing Aesthetics and Politics through Theatre and Film" at the First National Conference on Counter Balancing Politics and Aesthetics in Pakistani Literature organized by Department of English PU (5th May 2018).
 - Khurshid Alam and Dr. Ali Raza Tahir. Lacan and Subject Formation in Eugene O'Neill's *Mourning Becomes Electra*. *Al-Hikmat*. Vol 37. 2017.
 - Syeda Momina Masood and Khurshid Alam. 'Itni Behuda Aurat!': Lesbianism and Queer Spatial Politics in Angeline Maliks Chewing Gum. *Journal of Research (Humanities)*. Vol LIV Jan 2018.
- Dr. Amir Aziz, Assistant Professor
 - Dr. Aamir Aziz and Frans Willem Korsten. "Theatricality, the Spectacle's Veil and Allegory-in-Reverse in Arthur Miller's The Crucible." *English Studies* 99.2 (2018): 183-193. (A Routledge Journal).



- Dr. Aamir Aziz and Rabia Zaheer.” Environmental Deformation and Toxic Landscapes in Zulfikar Ghose's Poetry.” In *The Green World in Contemporary Poetry and Philosophy: Mapping Nature in the Twentieth and Twenty-First Centuries*. Brill Publishers, 2018.
- Dr. Aamir Aziz. “Resurrecting the Demons of the Past for a Different Future: The Performative Potential of Arthur Miller's *The Crucible* in an age of Post-Truth Populism”. 10th Biennial Swedish Association for American Studies (SAAS) conference “Open Covenants: Pasts and Futures of Global America” Stockholm (September 2018).
- Shahzeb Khan, Assistant Professor
 - Organiser of First National Conference on “Counterbalancing Politics and Aesthetics in Pakistani Literature (NCCPA 2018)” in collaboration with PHEC, Department of Information and Culture, and Punjab Arts Council, 5th May 2018.
 - Presented paper, “Towards a Decolonial Dialogue with Transgender” at 49th Annual North East Modern Language Association Conference at Pittsburgh, Philadelphia, Pennsylvania, USA (April 12-15, 2018).
 - Presented paper, “Literature of England in Pakistan and the Question of Occluded Ontology” @ ICPWE's 2nd International Conference on Pakistani Anglophone Literature at Kinnaird College, Lahore. (15th – 16th April 2018).
 - Presented paper, “Fantastic Beasts of Our Past and How to tackle them with English Literature” at First International Conference of Faculty of Humanities, FCCU: “Locating the Transcultural Humanities in Pakistan/South Asia. (13th – 14th October 2017).
 - “English Literature and 'the elegance of deceit'” The News (31st December 2017).
 - Speaker at PU Library Book Club. *Forty Rules of Love by Elif Shafak* (10th Jan 2018).
 - Speaker at PU Library Book Club. *Eqbal Ahmed: Critical Outsiders in a Turbulent Age* by Stuart Schaar (14th Feb 2018).
 - Conducted a three-hour workshop on “Decolonial Research in English Literature: Problems (and Solutions) of Identity, Politics and Aesthetics” at Government Post Graduate College for Women Satellite Town, Gujranwala (13th March 2018).
 - Sahar Hamid and Shahzeb Khan. *Beauty out of Chaos. A Parallel Study of Pakistan's Trauma Art and Literature*. Vol 54 (January 2018).
 - Zakia Reshidd and Shahzeb Khan. “Neoliberal Epistemology in Pakistani Anglophone Fiction.” *South Asian Studies*. Vol 32. No 2 (Jul-Dec 2017).
- Zoya Jamil Chaudhry, Lecturer
 - Zoya Jamil Chaudhry and Khurshid Alam “Comparative Study of Feminist Voice: The Handmaid's Tale and The Bell Jar” Conference “Women's Spring: Feminism, Nationalism and Civil Disobedience” (June 21st to June 23rd 2018) organised by Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, UK.



- Edited book “China-Pakistan Economic Corridor (CPEC) Political, Economic, and Social Perspectives” authored by the Dr. Moeen Nasar, Ex V.C, PU, and Prof. Dr. M. Iqbal Chawla Dean of Humanities and Social Sciences, PU.
- Momina Masood, Lecturer
 - Presented “Queer Embodiments and Postcolonial Resistance in Pakistani Film Cultures” at the 49th annual conference of the Northeast Modern Language Association (NEMLA), Pittsburgh, USA. (April 12, 2018).
 - Presented “Beyond the Cishet City: Queer Desires in Pakistani Visual Media and the Anti-Urban” in the workshop, Everyday Urbanism, at the LUMS, (March 17, 2018). Presented “From an Idea to the Dissertation: A Portrait of the Researcher as a Young Graduate Student” English Graduate Seminar, FCCU, Lahore (Jan 15, 2018).
 - Presented paper “Decoding Institutional Bias: The Postcolonial Subject and the Question of Agency” 1st International Humanities Conference, Locating the Transcultural Humanities in Pakistan, at FCCU, Lahore (Oct 13, 2017).
 - “*Itni Behuda Aurat!*”: Lesbianism and Queer Spatial Politics in Angeline Malik's *Chewing Gum*”, co-authored with Mr. Khurshid Alam, Journal of Research (Humanities), vol. LIV, University of the Punjab, January 2018, pp. 138-149.
 - Creative writing extensively published in online and print literary journals including *Pakistani Literature*, *3:AM Magazine*, *minor literature[s]*, *The Bombay Review*, *The Missing Slate* et al.
- Hooria Liaqat, Lecturer

Hooria Liaqat and Dr. Amra Raza's paper titled “Mythological Oppression in Anita Desai's *Fasting, Feasting* (1999)” Conference “Women's Spring: Feminism, Nationalism and Civil Disobedience” Institute for Black Atlantic Research (IBAR) at University of Central Lancashire, Preston, UK (21st – 23rd June 2018).
- **Research Journals**

Journal of Research (Humanities) HEC recognized ‘Z’ category Vol. LIV, January, 2018.

Article and Authors Names.

 - Geopolitics of Sensing and Knowing: On (De)Coloniality, Border Thinking, and Epistemic Disobedience. *Walter Mignolo*
 - Women Matter in *Night of the Golden Butterfly* Dr. Sohail Ahmad Saeed
 - Safe Scholarship. Dr. Saeed Ur Rehman
 - Blindness Re-Visited: A Study of Uzma Aslam Khan's *The Geometry of God*. Dr. Neelam Jabeen.
 - Paradigm Shift in Literary Studies: From Literary Criticism to Political Criticism. Dr. Muhammad Asif & Dr. Muhammad Saeed Akhtar
 - The City as an Anthropomorphic Character in Aravind Adiga's Fiction. Saasha Asif & Dr. Amra Raza



- Body, Power and Gendered Identity: Inscribed Bodies of Men in Partition Fiction. *Fatima Syeda & Dr. Rizwan Akhtar*
- “Itni Behuda Aurat!”: Lesbianism and Queer Spatial Politics in Angeline Malik’s Chewing Gum. *Syeda Momina Masood & Khurshid Alam*
- Obsessive ‘Westoxification’ Versus the Albatross of Fundamentalism and Love as Collateral Damage in Kamila Shamsie’s *Home Fire*. *Aamer Shaheen, Sadia Qamar & Dr. Muhammad Islam*
- Cultivating Virtual Feminist Violence in *Alice-Madness Returns* and *Inferno*: Analysis of Video Game Adaptions of *Alice in Wonderland* and Dante’s *Inferno*. *Sara Khan*
- Counter Hegemonic Effects of Hybridity in Paul Scott’s *The Raj Quartet*. *Kifayat Ullah Khan*
- Politics of Resistance against Capitalism in Transcultural Adaptions of Brecht’s *The Caucasian Chalk Circle* by Ajoka Theatre in Pakistan. *Taimur Kayani, Dr. Arbaahya Ali Termizi*
- Beauty out of Chaos: A Parallel Study of Pakistan’s Trauma Art and Literature. *Sahar Hamid & Shahzeb Khan*
- The Woman Does not Exist: Lacan, Poe and Re-(W)righting the Feminine. *Sheheryar Khan*
- Filming Pakistan in Zero Budget. *Dr. Ahmad Bilal*
- RESEARCH COLLABORATION
 - **Foreign Linkages**
St. Andrews University, Scotland.

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

- **Research & Development**
 - The Department was established in 1932, with J.F. Bruce as its First Professor. It soon earned recognition owing to its high standard and expertise in a wide range of historical discipline. The Department since then stands as one of the elite and largest History Department among the various Universities of Pakistan. It is a pioneer Department in South Asia for advanced studies and enjoys status of premier and prestigious institution having fostered members of Faculty in other Universities. Initially, local colleges cooperated with the Department in organizing post-graduate teaching. Eminent scholars and Professors contributed towards its advancement from time to time. Those who rendered invaluable services include Professor J.F. Bruce, Prof. Dr. A.L. Sirivastava, Prof. J.D Ward, Sir Montgomery Hyde, Dr. Ishtiaq Hussain Qureshi, Prof. Dilawer Hussain, Prof. Sh. Abdur Rashid, Prof. Dr. Abdul Hamid, Dr. Zafarul Islam, Dr. Zawar Hussain Zaidi, Syed Ali Abbas, Prof. Dr. Yar Muhammad Khan, Prof. Muhammad Aslam, Prof. Ikram Ali Malik, Prof. Dr. Sadiq Ali Gill, Prof. Qamar Abbss and Prof. Dr. S. Qalb-i-Abid. The Research Journal of the History Department entitled “Journal of the Punjab University Historical Society” is one of the oldest journals of the University. It first appeared in 1932 and is currently being published biannually. It is a journal of international repute.



- The present faculty has also grown up to seniority, eminence and professional ability. This includes Prof. Dr. Muhammad Iqbal Chawla, Dr. Mahboob Hussain, Dr. Faraz Anjum, Dr. Rukhsana Iftikhar, Dr. Naumana Kiran, Mr. Ghazi Muhammad Abdullah, Dr. Maqbool Ahmad Awan, Dr. Rubina Shoeb, Dr. Muhammad Abrar Ahmed & Miss. Anam Iftikhar.
- Department is planning to greatly strengthen the Ph. D program. Twenty five students have completed M. Phil in History in the current session and three students have completed Ph. D and two teachers are currently working on his Ph. D dissertation'. It is expected that he will complete his Ph. D in 2018.

○ **Publications: Books/ Edited**

- Prof. Dr. Muhammad Iqbal Chawla
 - (2018) *"The Politics of Pragmatism in Pakistan: A Case Study of the Pakistan People's Party"*, *Pakistan Journal of History and Culture*, (HEC Recognized) Vol. XXXIX, No. 1. NIHCR, Quaid-i-Azam University, Islamabad.
 - (2018) *"Pakistani hopes from PEC: Contextualizing Pakistan in 2050 and beyond"* China-Pakistan Economic Corridor (CPEC) Political, Economic and Social Perspectives, Conference Proceeding published by Department of History and Pakistan Studies & Research Society of Pakistan, University of the Punjab, Lahore. PP. 260-270.
 - (2018) *"The Redcliffe Award of August 1947: A Reappraisal with a Focus on Role of Viceroy Mountbatten in its Deliberation and Implementation"* FWU Journal of Social Sciences, (HEC Category X) Vol. 12, Issue - 1, 2018, PP. 172-179.
 - (2018) *"Belt and Road Initiative: Regional and Global Dimensions"* *Journal of Political Studies*, (HEC Category X) Vol. 25, Issue - 1, 2018, PP. 81:94
 - (2018) *"Fazl-i-Husain's Plural Approach and the Punjab Politics: Re-contextualizing the Foundation of the Unionist Party"*, *A Research Journal of South Asian Studies*, (HEC Category X) Vol. 33, No. 1, January – June, 2018, pp. 197-207.
 - (2018) *"Re-contextualizing Bhagat Singh's Freedom Struggle for Independence of India"*, *Journal of the Research Society of Pakistan*, (HEC Category X) University of the Punjab, Lahore. Vol. 55, No.1, January-June, 2018. pp. 17-30.
 - (2017) *"Economic Cooperation Organization: A Historical Perspective"* *Journal of Political Studies*, (HEC Category X) University of the Punjab, Lahore. Vol. 24, Issue - 2, 2017, 575:588
 - (2017) *"Islamic Welfare State: A Critique Of Parvez's Ideas About Islam"* *Pakistan Economic and Social Review*, University of the Punjab, Lahore, (HEC Category X) Volume 55, No. 2 (Winter 2017), pp. 309-326.
 - (2017) *"A History of Visual Art in Pakistan: Studying The Resistance Against Zia-Ul-Haq's Military Regime"*, *Journal of the Research Society of Pakistan*, (HEC Category X) University of the Punjab, Lahore. Vol. 54, No.2, July-December, 2017. pp. 225-238.



- (2017) "Era Of "Reconciliation" In Pakistan, 2006-2017: A Critical Reappraisal", *Journal of the Research Society of Pakistan*, (HEC Category X) University of the Punjab, Lahore. Vol. 54, No.2, July-December, 2017. pp. 239-248.
- **Books Authored**
Rethorizing the History and Historiography of South Asia,
Edited by Prof. Dr. Muhammad Iqbal Chawla, 2018
- Dr. Mahboob Hussain
 - "Resolution of National Issues: An Assessment of First Pakistani Parliament's Durability", *Journal of the Research Society of Pakistan* (ISSN 0034-5431) Vol. 55 2018
 - "Politics of Symbols & Slogans: It's Impact on Elections Election of 1970", *Journal of Historical Studies*. Vol. 3
 - "Emergence of Separatist Movement in East Pakistan: Impact of Jinnah's Leadership", *Journal of Political Studies* ISSN 1994-1080. Vol. 24
- Dr. Faraz Anjum
 - "Islami aur Maghrabi Tasawwur-i-Tarikh: Aik Taqabali Mutala" [Islamic and Western Concept of History: A Comparative Study], *Al-Ayyam* 9 No. 1 (Jan.-June 2018): 9-38. " „
 - And Never the Twain Shall Meet": Pre-colonial European Travellers and the „Reality" of India," *The Historian* 16 (Summer 2018): 1-13.
 - "Education and Learning in Mughal India" *Journal of the Research Society of Pakistan*, 55 No. 1 (Jan.-June 2018): 83-94.
 - "Annales School and Pakistani Historiography," *Journal of the Punjab University Historical Society*, 31, No. 1 (Jan. – June 2018): 51-59.
- Dr. Naumana Kiran
 - Fatima Begum: A Narrative of Unsung Hero of Pakistan Movement. *Journal of the Research Society of Pakistan*, Vol. 54, Issue No.(July-Dec., 2017
 - "Politics of Sindh and the Federal Cabinet of Pakistan, 1947-1955," The 46th Annual Conference on South Asia, University of Wisconsin, 26-28 October, 2017, Madison, United States of America. 4 17. "Muslim Mystics of the Punjab and the Pakistan Movement,"
 - "South Asian Studies Reimagined, SASA 12th Anniversary Conference, 23-25 March 2018, Claremont McKenna College, California, USA,.
- Dr. Robina shoeb
 - Reimagining Sikh Religion: Origin and Growth: An Overview, *Journal of the Punjab University Historical Society* (Vol. 31, No. 1, Jan, June. 2018).



- Muslim Accounts of “Happiness? During the Migration to the West Punjab: Revisiting the Experience/ Stories Amidst Partition of Punjab 1947, *Pakistan Vision*. Vol 19 No. 1, Jan- Jun 2018.
- History of Education in Punjab 1999-2008 - An Analysis: *Journal of the Research Society of Pakistan*, (Vol. 54, No. 2, July -Dec., 2017)
- Refocusing on the Education System under the Sikh Rule: *Journal of the Punjab University Historical Society* (Vol. 30, No. 2, Dec. 2017).
- Miss Anam Iftikhar
 - History of Education in Punjab, 1999-2008: An Analysis, *Journal of the Research Society of Pakistan* Volume No. 54, Issue No. 2 (July - December, 2017).
 - Can Cricket be used as a tool for ‘Peace Process between India and Pakistan’?, *Journal of the Punjab University Historical Society* Volume No. 03, Issue No. 2, July - December, 2017.
 - Re-Contextualizing Bhagat Singh’s Freedom Struggle for Independence of India, *Journal of the Research Society of Pakistan*, Volume No. 55, Issue No. 1 (January - June, 2018).
 - Reimagining Sikh Religion, Origin and Growth: An Overview, *Journal of the Punjab University Historical Society*, Volume No. 31, Issue No. 1, January - June 2018.
 - Muslim Accounts of „Happiness“ during the Migration to West Punjab: Revisiting the Experiences/Stories amidst Partition of Punjab 1947, *Pakistan Vision* Vol. 19 No. 1, 2018
- **Conferences, Seminars and Workshops, etc.** (sponsors, oral Presentation+Poster Presentation)

| Sr. No. | Title | Topic | Date | Venue |
|---------|----------------------------|--|------------|---|
| 1 | Sama Fiaz Rasool | How to Win Successful Scholarship Abroad | 12-01-2018 | Department of History & Pakistan Studies, University of the Punjab, Lahore. |
| 2 | | Child Rights Awareness Session | 17-01-2018 | Department of History & Pakistan Studies, University of the Punjab, Lahore. |
| 3 | Mr. Ghee Bowman, | Partition, Museum and Identity: Punjab 1947-70 | 22-03-2018 | Department of History & Pakistan Studies, University of the Punjab, Lahore. |
| 4 | Prof. Dr. Sarah Fd. Ansari | Beyond Partition: India, Pakistan and the ‘aftershocks of August 1947. Or, what happened next? | 14-09-2018 | Department of History & Pakistan Studies, University of the Punjab, Lahore. |

04 seminars were organized by History Department during 2017-18.



○ **Research Journals 2017-18**

Following volumes of the Journal of the Punjab University Historical Society were published.

| S.No. | Name of Journal | Volume |
|-------|---|---------|
| 1 | Journal of the Punjab University Historical Society | 30 No.2 |
| 2 | Journal of the Punjab University Historical Society | 31 No.1 |
| 3 | Journal of the Punjab University Historical Society | 31 No.2 |

RESEARCH COLLABORATION

○ **Funding grants for R & D**

Dr. Rukhsana Iftikhar and Dr. Naumana Kiran availed grants of HEC & PHEC to present papers in International Conferences.

RESEARCH SOCIETY OF PAKISTAN

○ **Publications:** Research Journal

- July to December 2017
- *Under Print Journal*
- January to June 2018
- July to December 2018

○ **Books**

- *Books Reprinted*
- The Emergence of Pakistan
- *Future Programme Publication of Books*
 - China-Pakistan Economic Corridor (CPEC)
 - Political, Economic and Social Perspectives
 - Diary and Notes of Mian Fazl-i-Hussain
 - Letter of Mian Fazl-i-Hussain

Number of Books in the Library

The total number of books in the library of the Research Society of Pakistan is 8884

Number of Publication

Titled of Books so far books published by the Research Society of Pakistan 115 Books.

PAKISTAN STUDY CENTRE

○ **Research & Development**

- The Centre is conducting research on different themes of Pakistan Studies, and on a variety of subjects dealing with the developments taking place in the world.
- The Centre publishes research works in shape of books, monographs as well as in its research journal '*Pakistan Vision*'.
- The Centre's research journal, '*Pakistan Vision*', is published bi-annually. It has been recognized by Higher Education Commission in Y category and is available on Centre's website.



- The Centre has been trying to play a more effective role in the promotion of academic and research collaboration with other universities, Pakistan Study Centres and other institutions. The Centre has established linkages with scholars and academicians of national and international repute.
- The Centre is organizing international conferences, seminars, the special lectures on regular basis. These are organized on a very large scale, covering variety of subjects; specialists working in national and international institutions are invited to speak on matters of national and international importance. These are well-attended seminars.
- **Conferences, Seminars and Workshops, etc.** (sponsors, oral Presentation+Poster Presentation)
During the period under review, Pakistan Study Centre organized following international and national seminars and special lectures:
 - Seminar in collaboration with *Sir Syed Taleem Tehzeb-o-Akhlaq Foundation* to pay tribute to Sir Syed Ahmed Khan, Panel of Speakers included: Syed Muhammad Asadullah (Convener, *Sir Syed Taleem Tehzeb-o-Akhlaq Foundation*), Mr. Mujeeb ur Rehman Shami, Chief Editor, *Daily Pakistan*, Justice (r) M.A. Shahid Siddiqi, Prof. Dr. Muhammad Iqbal Chawla, Dean, Faculty of Arts & Humanities, University of the Punjab, Prof. Dr. Zaffar Mueen Nasar, Vice-Chancellor, Punjab University.
 - Seminar on " Nation, Narration, Borders: Representing National Identity in Pakistani Anglophone Literature." Dr. Daniela Vitolo, University of Naples "L'Orientale, Italy and Prof. Dr. Muhammad Iqbal Chawla, Dean, Faculty of Arts & Humanities, Chairman, Department of History & Pakistan Studies, University of the Punjab, Lahore.
 - Seminar on "Lahore Resolution: Revisited" in connection with the Pakistan Day celebrations. Distinguished Professor of History and Public Policy and Dean, Faculty of Social Sciences FCCU, Lahore Prof. Dr. Sikandar Hayat and Prof. Dr. Muhammad Iqbal Chawla, Dean, Faculty of Arts & Humanities, Chairman, Department of History & Pakistan Studies, University of the Punjab, Lahore, were the keynote speakers
 - Seminar on "Women Participation in Elections 2018" on July 11, 2018. Distinguished jurist and professor of law Justice (r) Dr. Nasira Javed Iqbal was the keynote speaker.
 - seminar in connection with Independence Day celebrations on August 28, 2018. Prof. Dr. Muhammad Iqbal Chawla, Director, Pakistan Study Centre, Dean, Faculty of Arts & Humanities, Chairman, Department of History & Pakistan Studies, University of the Punjab, Lahore and Mr. Mujeeb ur Rehman Shami, Chief Editor, *Daily Pakistan* were the keynote speakers.
 - Seminar on CPEC: A Journey towards Peace & Prosperity on August 28, 2018, The Vice-Chancellor Punjab University Prof. Dr. Niaz Ahmad Akhtar were the president. The delegation from Jiangsu Normal University, China comprised of Prof. Dr. Sun Hongqi (Director of Pakistan Research Center), Prof. Zhang Shengzhen (Dean of the International College), Mr. Zhen Yutong, Deputy Dean of the International College and Professor Lou Zhengrong, Director of the Social Science Academy.



○ **Research Journal**

Two issues of the bi-annual research journal, 'Pakistan Vision', were published during the period under review:

- *Pakistan Vision*, (Journal) Vol. 19, No. 1, June 2018
- *Pakistan Vision*, (Journal) Vol. 18, No. 2, December 2017

▪ ***Pakistan Vision*, (Journal) Vol. 19, No. 1, June 2018**

- Reimagining the Role of Punjab in the Pakistan Movement: Punjab Perspectives by Muhammad Iqbal Chawla
- Confrontation at the Borders: Initiating Border Security Initiatives for Pakistan–Afghanistan Border Management by Iram Khalid
- Mass Conversion To Christianity: A Case Study Of Chuhra Community In Sialkot Distric (1880- 1930) by Huma Pervaiz, Tahir Mahmood
- Communal Currents: The Fate of Unionist Party in the Punjab by Samina Yasmeen
- Media an agent of Peace or war? A study of The Economist, The Herald and Time during American Armed Operations in Pakistan by Nasim Ishaq, Noshina Saleem, Hanan Ahmad Mian
- Emergence of Taliban Militia, Pakistan's Disappointments and U.S. Concerns by Ahmad Ejaz
- An Assessment of Association between Natural Resources Agglomeration and Unemployment in Pakistan by Amjad Ali, Kalsoom Zulfiqar
- Religious Motivation behind Political Movement: A Case Study of Nizam-e-Mustafa Movement by Rizwan Ullah Kokab, Muhammad Arif Khan
- Impact of Benazir Bhutto Death on Performance of PPP and Electoral Politics of Pakistan 2008 -2013 by Syed Karim Haider , Sheikh Shaukat Ali
- Muslim Accounts of "Happiness? during the Migration to West Punjab: Revisiting the Experiences/Storiesamidst Partition of Punjab 1947 by Muhammad Abrar Ahmad , Robina Shoeb, Anam Iftikhar
- The Role of Political Parties in Political Development of Pakistan by Iqra Mushtaq , Fawad Baig, Sehrish Mushtaq
- Survival Of Fittest: From Khalsa Identity To Military Establishment Of Maharaja Ranjeet Singh by Khola Cheema
- Pakistani Learners in British State Maintained Islamic Schools: The effects of social economic class and faith identity on the gender gap in attainment by Naveed Alam
- An Estimation Of Normalized Revealed Comparative Advantage And Its Determinants In Pakistan by Mahboob Ul Hassan, Hafiz Khalil Ahmad
- Fundamental Rights as Basic Structure of Constitution: Judicial Restraint of Pre-Achakzai Case by Aman Ullah Malik



- *Pakistan Vision*, (Journal) Vol. 18, No. 2, December 2017
 - Peace & Economy beyond Faith: A Case Study of Sharda Temple by Faiz ur Rehman, Syed Mudasser Fida Gardazi, Asghar Iqbal, Amna Aziz
 - Collaboration, Political Control and the British Strategic Imperatives in Colonial Punjab by Tahir Mahmood, Amjad Abbas Khan
 - Sindhi Ethno-national Movement: Question of Provincial Autonomy by Sultan Mubariz Khan, Muhammad Mushtaq
 - What Goes Wrong with the Meaning, Legislation, and Functioning of Mediation in Pakistan? (Pointation and solutions) by Qazi Attaullah, Lutfullah Saqib
 - Pro-women Laws in Pakistan: Challenges towards Implementation by Sania Muneer
 - CPEC and Sustainable Economic Growth for Pakistan by Muhammad Tehsin, Amjad Abbas Khan, Turrab-ul-Hassan Sargana
 - Settlement of Industrial Dispute through Conciliation: a study of Current Practices in Pakistan by Iftikhar Ahmad Tarar
 - Mediating Role of Individual's Ethical Belief in Determining the Influence of the Mobile Networks TV Advertisements on Moral Behavior of Youth in Pakistan by Anjum Zia, Muneeba Ifthikar, Syed Hassan Raza
 - Professional Commitment of Teacher Educators: Future of Nation Builders by Halima Shoaib, Muhammad Ibrahim Khalid
 - The Second Millennium Development Goal in Pakistan: Targets, Results and Challenges by Usman Shaukat, Umbreen Javaid, Gulshan Majeed
 - Persuasion and Political Discourse: A Critical Discourse Analysis of Imran Khan's Election Speech (2013) by Uzma Khalil, Muhammad Islam, Saima Akhtar Chattha, Farwa Qazalbash
 - Nuclear Diplomacy: A Case Study of French and Pakistani Behaviour by Humaira Dar
 - CPEC's Repercussions: A Harbinger of Success and Prosperity in South Asia; An Analysis by Maqbool Ahmad Awan

RESEARCH COLLABORATION

○ **Indigenous**

- The Centre has been collaborating with various universities and national as well as international institutions on matters of research and education.
- Eminent Scholars and academicians of national and international repute visit the Centre on regular basis. Special lectures are arranged at the Centre quite often on a very large scale.

▪ **Foreign Linkages**

The Centre has signed five MoUs and has established linkages with scholars and academicians of national and international repute.



DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

○ **Research Projects**

- A number of graduate level Research projects were carried out under the Research Wing of the French Department, supervised and directed by Dr Saleha Nazeer:
- *“A Study of Iblis ki Majlis-e-Shoora by Iqbal and its relevance in the contemporary society”, Une etude du ‘Parlement de Satan’ d’Iqbal et sa pertinence dans la société islamique moderne* by Hamd Nayab, French Department, PU, Lahore, 2018.
- *“An Analysis of Research Trends in Higher Education”, Analyse des tendances de recherche dans l’éducation supérieure* by Hifsa Monaf, French Department, PU, Lahore, 2018.
- *“Contemporary Methods of Teaching FLE – French as a Foreign Language – to Pakistani Learners”, Les méthodes contemporaines du FLE pour les apprenants pakistanais* by Muhammad Zeeshan, French Department, PU, Lahore, 2018.
- *“A Study on Symbolic Lexique of Hajj in Shariati’s Thought”, Une etude du lexique symbolique de Hajj chez Shariati* by Youmna Noor, French Department, PU, Lahore, 2018.
- *“Machine Translation vs Human Translation : Comparison and Analysis”, Traduction automatique et traduction humaine: Comparaison et analyse* by Fizza Hammad, French Department, PU, Lahore, 2018.
- *“A Study on Superstitious Beliefs in Pakistani Society”, Une étude des croyances superstitieuses dans la société pakistanaise* by Ushna Khaliq, French Department, PU, Lahore, 2018.
- *“Discourse Analysis of Harry Potter Series: How Main Characters Changed the Course of the Harry Potter Series”, Fizza Hammad, French Department, PU, Lahore, 2017.*
- *“A Comparison between Dyslexia and Dyspraxia”, Youmna Noor, French Department, PU, Lahore, 2017.*

○ **Conferences, Seminars & workshops**

Research Papers by Dr Saleha Nazeer presented in Conferences

- *Quadrilingual Linguistic Study on the Arabic Text of Surah Al-Hujurat* by Saleha Nazeer & Youmna Noor, presented at ICRSE International Conference on Research in Special Education : “Addressing Diversity Through Education”, University of the Punjab, 2018.
- *A Study on the Effects of Cartoons on Language and Behavior of Children* by Saleha Nazeer & Ushna Khaliq, presented at ICRSE International Conference on Research in Special Education : “Addressing Diversity Through Education”, University of the Punjab, 2018
- *The Dying tradition of Family Dialogic – Dehumanization of Humanities* by Saleha Nazeer & Iram Iqbal, presented at ICRSE International Conference on Research in Special Education : “Addressing Diversity Through Education”, University of the Punjab, 2018
- *Soft Skills as an Affective Factor in Learning Foreign Languages – FLE* by Saleha Nazeer & Fizza Hammad, presented at ICRSE International Conference on Research in Special Education : “Addressing Diversity Through Education”, University of the Punjab, 2018



- *Study on the Role of Grand-parents in Education* by Saleha Nazeer & Hamd Nayab, presented at ICRSE International Conference on Research in Special Education : “Addressing Diversity Through Education”, University of the Punjab, 2018

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

○ **Research Journals**

- Journal of Gender and Development
Started in 2006. Working to bring it in streamline. The back issues will be published in this year.

DEPARTMENT OF POLITICAL SCIENCE

○ **Projects: Completed**

| Sr. No. | Name of Faculty Member | Titled of Project | Funded By | Year of Completion |
|---------|--------------------------|---|-----------------------------------|--------------------|
| 1 | Prof. Dr. Umbreen Javaid | Operation Zar-e-Azab and the Issue of Internally Displaced persons in Pakistan: A Critical Appraisal | Higher Education Commission (HEC) | 2017 |
| 2 | Prof. Dr. Umbreen Javaid | National Action Plan Assessing the efficacy and relevance in Pakistan's fight violent extremism | Higher Education Commission (HEC) | 2018 |
| 3 | Prof. Dr. Umbreen Javaid | Pakistan's Struggle Extremist Onslaught, Assimilating Women in Pakistan's Counter – extremism Efforts; A critical Appraisal | Punjab University | 2018 |
| 4 | Prof. Dr. Iram Khalid | Confrontation at the Borders: Initiating Border Security Initiatives for Pakistan – Afghanistan Border Management. | Punjab University | 2018 |
| 5 | Dr. Rana Eijaz Ahmad | Thinking beyond Democracy and freedom in the age of Globalution | Punjab University | 2018 |
| 6 | Dr. Rehana Saeed Hashmi | Changing Socio-Political Behavior and Sectarian Conflict: A Constraint Towards Peace Building (The Study of Punjab) | Higher Education Commission (HEC) | 2018 |



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| 7 | Dr. Mubeen Adnan | Political, Economic and Social Governance in Pakistan: Its Practices and Issues | Punjab University | 2018 |
| 8 | Dr. Gulshan Majeed | Problems of Good Governance in Pakistan | Punjab University | 2018 |
| 9 | Ahmad Ali Naqvi | China Pakistan Economic Corridor and Its Implications for Pakistan's Sovereignty | Punjab University | 2018 |

○ **Publications: Book / Edited**

- Prof. Dr. Umbreen Javaid
 - “SAARC: Performance and Challenges” edited by Prof. Dr. Umbreen Javaid (Publisher, Centre for South Asian Studies, University of the Punjab, Lahore) (2018).
 - “The Kashmir Dispute in South Asia” edited by Prof. Dr. Umbreen Javaid (Publisher, Centre for South Asian Studies, University of the Punjab, Lahore, 2018).
- Dr. Rana Eijaz Ahmad
 - “CPEC: Strategic Implications on Political Economy of Pakistan” Edit by Zafar Moein Nasar, Rana Eijaz Ahmad & Zainab Ahmad (Publisher Punjab University Press, 2018)

• **Research Publications**

- Prof. Dr. Umbreen Javaid
 - “Federation of Pakistan and creation of new Provinces: A Case of Bahawalpur Province” National Institute of Historical & Cultural Research-Pakistan (PJHC), Vol. 29, No. 1, 2018 (HEC recognized Category “Y”).
 - “Rohingya Genocide: A Climate of Fear” by Dr. Umbreen Javaid, Pakistan Journal of Social Sciences (PJSS), BZU, Multan, Vol.38, No.1 (2018), pp.118-136.
 - “India-US- Pakistan Strategic Relations”, Journal of the Punjab University Historical Society, University of the Punjab, Lahore, Vol. 31, No. 1, 2018. (HEC recognized Category “Y”).
 - “Pakistan’s Struggle against Extremist Onslaught, Assimilating Women in Pakistan’s Counter-Extremism Efforts; A Critical Appraisal”, Journal of Political Studies, Vol. 25, No. 1, 2018 (HEC recognized Category “X”).
 - “Reassessing the narrative of rancor in South Asia” by Dr. Umbreen Javaid, Journal of South Asian Studies, University of the Punjab, Lahore, Vol. 33, No. 1, (2018)
 - “United States and Imperialism: A Paradox or Reality, Marglla Papers, A Journal of International Affairs, National Defense University, Islamabad, Vol. XXII, 2018 (HEC recognized Category “X”)
 - “Sino-Pakistan Relations: Repercussions for India”, Journal of Research Society of Pakistan, University of the Punjab, Lahore, Vol. 55, No. 1, 2018 (HEC recognized Category “Y”).



- *“Role of Mass Media in Promoting Agricultural Information among Farmers of District Nankana”* by Dr. Umbreen Javaid, Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad – Pakistan.(Impact Factor (0.690) (2017)
- *“Role and Significance of Senate in the Federation of Pakistan: An Analysis before and after 18th Amendment to the Constitution of 1973”* Dr. Umbreen Javaid & Zainab Ahmed, Margala Papers, A Journal of International Affairs, National Defence University, Islamabad, Vol. XXI, 2017 (HEC recognized Category “X”)
- *“The Second Millennium Development Goals in Pakistan: Targets, Results and Challenges”* by Usman Shoukat & Dr. Umbreen Javaid, Dr. Gulshan Majid, Journal of Pakistan Vision, University of the Punjab, Lahore, Vol. 18, No. 2, 2017 (HEC recognized Category “Y”)
- *“Coordinated Border Management (CBM); A Quantum Approach to Resolve Bilateral Conflicts between Pakistan and Afghanistan”* by Sehrish Qayyum and Umbreen Javaid, Journal of Political Studies, Vol. 24, No. 2, 2017 (HEC recognized Category “X”).
- *“Political Socialization in Pakistan: A Study of Political Efficacy of the Students of Madrassa”*by Jafar Riaz Kataria & Dr. Umbreen Javaid, Journal of South Asian Studies, University of the Punjab, Lahore, Vol. 32, No. 2, 2017 (HEC recognized “X”).
- *“Globalization, interdependence and Economic Cooperation Organization (ECO)”* by Dr. Umbreen Javaid & Habibollah Javan Siahmardy, Journal of South Asian Studies, Vol. 32, No. 2, 2017 (HEC recognized “Z”).
- Prof. Dr. Iram Khalid
 - Financial Federalism in Pakistan: Implications for Centre-Province Relations. Journal of Political Studies, Punjab University, Lahore. Vol. 25 No. 1, 2018.
 - Confrontation at the Borders: Initiating Border Security Initiatives for Pakistan – Afghanistan Border Management. “Pakistan Vision” Pakistan Study Centre. Vol. 19 No. 1, 2018.
 - Food Security: Understanding Pakistan’s National Security Concerns. Journal of Political Studies, Punjab University, Lahore. Special Issue.
 - Counter Terrorism Police in Pakistan and Role of Police: A Way Forward. Journal of South Asian Studies, P.U. Lahore. Vol. 32 Issue 2, 2017.
 - A New Paradigm for Countering Terrorism: Personnel Reliability Programs Pakistan’s in Academic Institutions. Journal of Research Society of Pakistan, P.U. Lahore. Vol. 54 Issue 2, 2017.
 - Immigrating and Changing Perception in Britain. Journal of Political Studies, GCU LHR. Vol. XXXV.
- Rana Eijaz Ahmad
 - The Fifth Political Theory and Countering Terrorism in the Post 9/11 Era. Journal of Political Studies, Special Issue, 2018 (HEC recognized Category “X”).



- Dr. Rehana Saeed Hashmi
 - Modern Democracy: Issues in Theory and Practice. Journal of Political Studies, Vol. 25, No.1, 2018 (HEC recognized Category “X”).
 - Immigrating and Changing Perception in Britain. Journal of Political Studies, GCU LHR. Vol. XXXV.
 - A New Paradigm for Countering Terrorism: Personnel Reliability Programs Pakistan’s in Academic Institutions. Journal of Research Society of Pakistan, P.U. Lahore. Vol. 54 Issue 2, 2017.
- Dr. Mubeen Adnan

Political, Economic and Social Governance in Pakistan: Its Practices and Issues. Journal of Research Society of Pakistan, Vol. 55, No. 1, 2018 (HEC recognized “X”).
- **Conferences / Seminars and Workshops etc**
 - *International Conferences*

Organized a 1st International Conference on “Changing Regional Political Dynamics in South Asia” in collaboration with Centre for South Asian Studies at University of the Punjab, Lahore – Pakistan, presented a paper on “Pakistan and the Changing Geopolitics of South Asia: Challenges and Recommendations on 17th – 18th January, 2018.
 - *National*
 - Organized an International Seminar on Dr. B. R. Ambedkar on “Ambedkar’s Mission of Annihilation of Caste and Present Situation” in collaboration with Sir Ganga Ram Heritage Foundation on 25th January (Thursday), 2018.
 - Organized a seminar on “6th September: A Tribute to Martyrs on Defence Day” by Brig. (R) Nadir Mir, Chairman Pakistan National Reform Movement (PNRM) on 06-09-2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
 - Organized a seminar on “Significance of Internal Harmony for National Independence” in collaboration with Pakistan Institute of National Affairs, (PINA) on August 15, 2018 (Wednesday) at 2:30 p.m. in committee room, Centre for Undergraduate Studies, University of the Punjab, Lahore”.
 - Organized a student’s debates (Urdu) on “Azaadi Ki Ahmiyat” by Dr. Jafar Riaz Kataria, Assistant Professor, Centre for South Asian Studies (CSAS), University of the Punjab, Lahore on 10th August, 2018 in collaboration with CSAS, Lahore.
 - Organized a round table discussion on “Pakistan: A way forward” by Dr. Marium Kamal, Assistant Professor, Centre for South Asian Studies (CSAS), University of the Punjab, Lahore on 9th August, 2018.
 - Organized a seminar on “Independence Day” by Prof. Dr. Rafiq Ahmad, Former Vice-Chancellor, University of the Punjab, Lahore and Vice-Chairman Nazria Pakistan Trust, Lahore on 8th August, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.



- Organized a “National Songs and Cultural Dress Show” by Mr. Ali Ahmad, Lecturer, Department of Political Science, University of the Punjab, Lahore on 8th August, 2018 at, Department of Political Science, Lahore
- Organized a student’s debates on “Importance of National Unity” by Dr. Abdul Majid, Assistant Professor, Centre for South Asian Studies (CSAS), University of the Punjab, Lahore on 7th August, 2018.
- Organized a Table talk on “Pakistan: issues in National Integration” by Dr. Rana Eijaz Ahmad, Associate Professor, Department of Political Science, University of the Punjab, Lahore on 7th August, 2018 at Department of Political Science, Lahore.
- Organized a student’s debates (English) on “Significance of Independence” by Dr. Rehana Saeed Hashmi, Associate Professor, Department of Political Science, University of the Punjab, Lahore on 6th August, 2018 at, Department of Political Science, Lahore.
- Organized a student’s debates (Urdu) on “14 August ki Ahmiyat” by Dr. Iram Khalid, Professor, Department of Political Science, University of the Punjab, Lahore on 3rd August, 2018 at, Department of Political Science, Lahore.
- Organized a lecture on “Significance of Voting: Election 2018” by Mr. Fawad, political analyst and anchor person on 18th July, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Election Politics 2018: Issues and Challenges” by Mr. Sulman Abid, Political Analyst and Columnist on 12th July, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a National Seminar on “Requirement of free & fair elections” by Senator S.M Zafar, Justice (R) Faqir Muhammad Khokhar, Chairman PILDAT Ahmed Bilal, Senior Journalists including Altaf Hasan Qureshi, Sajjad Mir, Prof Shabir Ahmed Khan, Rauf Tahir, Dr Shafiq Julandhri in collaboration with Pakistan Institute for National Affairs and Punjab University's Pakistan Study Centre and Department of Political Science on 2nd July, 2018 at Undergraduate Centre, University of the Punjab, Lahore.
- Organized a seminar on “State Terrorism in Indian Occupied Kashmir” by Former Ambassador and President Lahore Council for World Affairs Pakistan Mr Javid Husain, Lahore on 28th June, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Electoral Reforms with Youth” by Ms. Iram Fatima, Officer Incharge Bedari, Lahore on May 17th, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Kashmir: Current Situation and Pakistan’s Policy Options” by Dr. Nazir Hussain, Chairman, SPIR, Islamabad on 27th April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.



- Organized and attended a seminar on “Women and Youth Participation in Electoral Process” on 23rd April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a memorial seminar on “1st Death Anniversary of Prof. Dr. Mu” on 5th April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “A Reflection on Indian in Occupied Kashmir” by Ms. Mushaal Hossain Malik W/O Yaseen Malik on 5th April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Pakistan Maritimes Affairs: Prospects & Challenges” by Dr. Commodore S. M. Shahzad, Station Commodore, Pakistan Navy on 5th April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Drug Abuse Prevention in Educational Institutions” by Maria Ali, Project officer, Anti-Narcotic Force on 2nd April, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “India and Pakistan as Successor States of British India” by Mr. Ross Masud, Former Legal Advisor, Ministry of Foreign Affairs of Pakistan on 14th March, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “Terrorism: A Conceptual Quagmire” by Dr. Dayyab Ali Gillani, Assistant Professor, Department of Political Science, University of the Punjab, Lahore, on 6th March, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized a seminar on “China-Pakistan Economic Corridor & Significance of Gwadar Port” by Brig. (R) Nadir Mir on 4th March, 2018 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.
- Organized “Model CC1 Speeches” by Hanns Seidel (German Foundation) on “Federalism” at Provincial Roundup at Department of Political Science in which various universities and post-graduate colleges of Punjab participated on 14th November, 2017.
- Organized a seminar on “CPEC and Maritime Security” by Commodore Naveed Ahmad, Navy War College, Lahore on 23rd November, 2017 at Department of Political Science, University of the Punjab, Lahore.
- Organized a seminar on “China-Pakistan Economic Corridor” by Dr. Zubair Iqbal Ghouri, CEO, Lahore Knowledge Park Company, Lahore on 22nd November, 2017 in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore.

○ **Research Journals**

- Department of Political Science is publishing its Research journal “Journal of Political Studies” since 2000, HEC recognized in ‘X’ category.



- Introduced new research journal at Department of Political Science titled, “Journal of Politics & International Studies” HEC category “Z” (2018).

RESEARCH COLLABORATION

○ Funding Grants for R&D

| Sr. No. | Name of Faculty Member | Titled of Project | Funded By | Amount Rs. | Year of Completion |
|---------|--------------------------|---|-----------------------------------|------------|--------------------|
| 1 | Prof. Dr. Umbreen Javaid | Operation Zar-e-Azab and the Issue of Internally Displaced persons in Pakistan: A Critical Appraisal | Higher Education Commission (HEC) | 4000,000 | 2017 |
| 2 | Prof. Dr. Umbreen Javaid | National Action Plan Assessing the efficacy and relevance in Pakistan’s fight violent extremism | Higher Education Commission (HEC) | 1794,513 | 2018 |
| 3 | Prof. Dr. Umbreen Javaid | Pakistan’s Struggle Extremist Onslaught, Assimilating Women in Pakistan’s Counter – extremism Efforts; A critical Appraisal | Punjab University | 250,000 | 2018 |
| 4 | Prof. Dr. Iram Khalid | Confrontation at the Borders: Initiating Border Security Initiatives for Pakistan – Afghanistan Border Management. | Punjab University | 250,000 | 2018 |
| 5 | Dr. Rana Eijaz Ahmad | Thinking beyond Democracy and freedom in the age of Globalution | Punjab University | 150,000 | 2018 |
| 6 | Dr. Rehana Saeed Hashmi | Changing Socio-Political Behavior and Sectarian Conflict: A Constraint Towards Peace Building (The Study of Punjab) | Higher Education Commission (HEC) | 4000,000 | 2018 |



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|---|--------------------|--|-------------------|---------|------|
| 7 | Dr. Mubeen Adnan | Political, Economic and Social Governance in Pakistan: Its Practices and Issues | Punjab University | 150,000 | 2018 |
| 8 | Dr. Gulshan Majeed | Problems of Good Governance in Pakistan | Punjab University | 150,000 | 2018 |
| 9 | Ahmad Ali Naqvi | China Pakistan Economic Corridor and Its Implications for Pakistan's Sovereignty | Punjab University | 125,000 | 2018 |

DEPARTMENT OF SOCIAL WORK

○ **Research and Development**

- Department of Social Work Organized s Seminar on “Emerging Challenges in Disaster Management and Volunteerism” on 24th October, 2017 in the Auditorium of Institute of Chemistry, University of the Punjab (Quaid-e-Azam Campus), Lahore.
- Department of Social Work arranged Three days training workshop of students of MSc on “Research and Report Writing Skills” in Collaboration with Community World Service Asia (CWSA) from 10-12 November 2017 at University Club, University of the Punjab, Lahore.
- Department of Social Work Organized s Seminar on “Persons with Disabilities are Persons with Equal Rights” on 15th December, 2017 Al Razi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore.

INSTITUTE OF COMMUNICATION STUDIES

○ **Completed Projects**

- A research Project on “Medias Role in Promotion of National Identity Pakistani Youth Perception 2017-18” funded by the University of the Punjab for the fiscal year 2017-18 (in-Progress) by Dr. Noshina Saleem

○ **Publications: Book / Edited**

▪ **Dr. Noshina Saleem**

- “Body Image Discrepancy and Surgical Concern: Thin Ideal Internationalization as mediator” published in Journal of Behavioural Sciences (JBS), University of the Punjab in December issue, 2017.
- “Covering US Led Invasion of Afghanistan: A Comparative Analysis of the Treatment of the Economist, The Time and The Herald” published in Journal of the Research Society of Pakistan (JRSP), University of the Punjab in December Issue, 2017.



- “Media an agent of Peace or war? A study of The Economist, The Herald and Time during American Armed Operations in Pakistan” published in Journal of Pakistan Vision, Vol-19, No-1, 2018.
- “Critical Boundaries of Activism in Public Relations in Pakistan: A Comparative Analysis of Effects of Professional Practices on the Level of Involvement with the Activist’s Groups in Public and Private Sector Organizations” published in Journal of Social Sciences and Humanities, AIOU Vol-26, No-1, 2018.
- “Revisiting Antecedents of Brand Loyalty: Impact of Perceived Social Media Communication with Brand Trust and Brand Equity as Mediators” published in Academy of Strategic Management Journal, Vol-17, No-1, 2018.
- “Thematic Analysis of International News-Magazines regarding us Operations in Pakistan” published in Global Media Journal-Pakistan Edition, Vol-11, No-1, 2018.
- Dr. Abida Ejaz
 - “Framing of ‘Operation Decisive Storm’ and Saudi e-press” published in Journal of Political Studies, University of the Punjab, Vol-25, No-2, 2018.
 - “Trends and Patterns of Muslims’ Depictions in Western Films. An Analysis of Literature Review” published in Revista Mediaciones, Vol 21, 2018.
- Dr. Savera Shami
 - “Strategic Political Communication, Public Relations, Reputation Management & Relationship Cultivation through Social Media” published in Journal of the Research Society of Pakistan, Vol-55, 2018.
- Dr. Lubna Zaheer
 - “Public Affinity for Political Discourse in Pakistan” published in Journal of Political Studies, University of the Punjab, Vol-25, No-1, 2018.
- **Conferences/Workshops Organized**
 - Organized a workshop on “Publishing Research: from Inception to Completion” Dr. Bill Cilcock a representative of Arizona State University (ASU) at Faiz Ahmad Faiz Conference Room, Institute of Communication Studies, University of the Punjab on December 18, 2017.
 - Organized a workshop on “Researching Social Media: Data and Methods” Dr. Dawn Rae Giplin a representative of Arizona State University (ASU) at Faiz Ahmad Faiz Conference Room, Institute of Communication Studies, University of the Punjab on December 19, 2017.
 - Organized a workshop on “Navigating the Scholarly Publishing Landscape in Media & Communication” by Dr. Bill Cilcock and Dr. Dawn Rae Giplin representatives of Arizona State University (ASU) at Faiz Ahmad Faiz Conference Room, Institute of Communication Studies, University of the Punjab on December 20, 2017.
- **Research Journals**
 - Biannual Journal of Media Studies



INSTITUTE OF SOCIAL & CULTURAL STUDIES

○ **Projects**

- Exploration of Socio-Cultural and Institutional Factors of Child Sexual Abuse in Kasur, Pakistan (2018), sponsoring by Ministry of Human Rights, Govt. of Pakistan, Islamabad.
- Evaluation of Mother and Child Health Week in Pakistan (2018), sponsoring by UNICEF.
- Role of Punjab health care commission in engaging non-state providers for strengthening health system: challenges and opportunities (2018-20), sponsoring by Higher Education Commission (HEC)

○ **Publications**

- Research Papers Published in International Peer-reviewed Impact-Factor Journals & HEC Recognized Category Journals

- Dr. Zakaria Zakar

| Sr. No | Article | Impact Factor |
|--------|---|---------------|
| 1 | Tariq J., Sajjad A., Zakar R., Zakar MZ. Fischer F. (2018). Factors Associated with Under-nutrition in Children under the Age of Two Years: Secondary Data Analysis Based on the Pakistan Demographic and Health Survey 2012–2013. <i>Nutrients</i> , 10, 676. https://doi.org/10.3390/nu10060676 | 3.55 |
| 2 | Mehmood KQ, Zakar R, and Zakar MZ (2018) Role of Facebook use in predicting bridging and bonding social capital of Pakistani university students <i>Journal of Human Behavior in the Social Environment</i> https://doi.org/10.1080/10911359.2018.1466750 | 0.47 |
| 3 | Zakar R, Zakar MZ, and Hamid N, (2018) Gender mainstreaming in politics: Perspective of female politicians from Pakistan <i>Asian Journal Of Women's Studies</i> , https://doi.org/10.1080/12259276.2018.1464109 | 0.21 |
| 4 | Amjad A, Amjad U, Zakar R, Usman A, Zakar MZ, and Fischer F (2018) Factors associated with caesarean deliveries among child-bearing women in Pakistan: secondary analysis of data from the Demographic and Health Survey, 2012–13 <i>BMC Pregnancy and Childbirth</i> 18:113 https://doi.org/10.1186/s12884-018-1743-z | 2.70 |
| 5 | Saleem, J., Zakar, R., Zakar MZ et al. (2018) High dose vitamin D C in the treatment of severe acute malnutrition: a multicenter double blind randomized control trial. <i>American Journal of Clinical Nutrition</i> . http://doi.org/10.1093/ajcn/nqy027 | 6.90 |



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| 6 | Zakar, R., Zakar MZ et al. (2018). Approaches towards improving the quality of maternal and newborn health services in South Asia: Challenges and Opportunities for healthcare systems. Globalization and health. 17, 14. https://doi.org/10.1186/s12992-018-0338-9 | 2.54 |
| 7 | Zakar MZ, Zakar R, Mustafa M, Jalil A and Fischer F (2018). Underreporting of stillbirths in Pakistan: perspectives of the parents, community and healthcare providers https://doi.org/10.1186/s12884-018-1924-9 | 3.02 |
| 8 | Iqbal S, Zakar R, Zakar MZ, & Fischer F. Factors Associated with Infants' and Young Children's (6–23 Months) Dietary Diversity in Pakistan: Evidence from The Demographic and Health Survey 2012–13. Nutrition Journal. 2017; 16(1), 78. https://ncbi.nlm.nih.gov/pubmed/29208001 | 3.21 |
| Article | HEC Category | |
| 9 | Aisha Jalil, Rubeena Zakar, Muhammad Zakria Zakar. 2018. Patient satisfaction with doctors in public diabetes clinic of Pakistan: prevalence and determinants. Rawal Medical Journal, 43(1): 8-13. | X |

- Dr. Rubeena Zakar

| Sr. No | Article | Impact Factor |
|--------|---|---------------|
| 1 | Tariq J., Sajjad A., Zakar R., Zakar MZ. Fischer F.(2018). Factors Associated with Under-nutrition in Children under the Age of Two Years: Secondary Data Analysis Based on the Pakistan Demographic and Health Survey 2012–2013. Nutrients, 10, 676. https://doi:10.3390/nu10060676 | 3.55 |
| 2 | Mehmood KQ, Zakar R, and Zakar MZ (2018) Role of Facebook use in predicting bridging and bonding social capital of Pakistani university students Journal of Human Behavior in the Social Environment https://doi.org/10.1080/10911359.2018.1466750 | 0.47 |
| 3 | Zakar R, Zakar MZ, and Hamid N, (2018) Gender mainstreaming in politics: Perspective of female politicians from Pakistan Asian Journal Of Women's Studies, https://doi.org/10.1080/12259276.2018.1464109 | 0.21 |



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| 4 | Amjad A, Amjad U, Zakar R, Usman A, Zakar MZ, and Fischer F (2018) Factors associated with caesarean deliveries among child-bearing women in Pakistan: secondary analysis of data from the Demographic and Health Survey, 2012–13 BMC Pregnancy and Childbirth 18:113 https://doi.org/10.1186/s12884-018-1743-z | 2.70 |
| 5 | Saleem, J., Zakar, R., et al. (2018) High dose vitamin D C in the treatment of severe acute malnutrition: a multicenter double blind randomized control trial. American Journal of Clinical Nutrition. https://doi.org/10.1093/ajcn/nqy027 | 6.90 |
| 6 | Mian, Zakar R, et al. (2018). Approaches towards improving the quality of maternal and newborn health services in South Asia: Challenges and Opportunities for healthcare systems. Globalization and health. 17, 14. https://doi.org/10.1186/s12992-018-0338-9 | 2.54 |
| 7 | Amjad, A., Amjad, U., Zakar, R., Usman, A., Zakar, Z., Fischer, F. (2018). Determinants Associated with Caesarean Section Deliveries among Child Bearing Women Aged 15-49 — Secondary Analysis of Pakistan Demographic Health Survey 2012-13. https://doi.org/10.1186/s12884-018-1743-z | 3.08 |
| 8 | Jafree SR , Zakar R, Mustafa M and Fischer F (2018). Mothers employed in paid work and their predictors for home delivery in Pakistan https://doi.org/10.1186/s12884-018-1945-4 | 3.02 |
| 9 | Zakar MZ, Zakar R, Mustafa M, Jalil A and Fischer F (2018). Underreporting of stillbirths in Pakistan: perspectives of the parents, community and healthcare providers https://doi.org/10.1186/s12884-018-1924-9 | 3.02 |
| 10 | Moritz U.G. Kraemer*, D. Bisanzio, R.C. Reiner, Zakar R, J.B. Hawkins, C.C. Freifeld, D.L. Smith, S.I. Hay, J.S. Brownstein and T. Alex Perkins* (2018). Inferences about spatiotemporal variation in dengue virus transmission are sensitive to assumptions about human mobility: a case study using geolocated tweets from Lahore, Pakistan | 2.98 |
| 11 | Iqbal S, Zakar R, Zakar MZ, & Fischer F. Factors Associated with Infants' and Young Children's (6–23 Months) Dietary Diversity in Pakistan: Evidence from The Demographic and Health Survey 2012–13. Nutrition Journal. 2017; 16(1), 78. https://ncbi.nlm.nih.gov/pubmed/29208001 | 3.21 |



| Article | HEC Category | |
|---------|--|---|
| 12 | Aisha Jalil, Rubeena Zakar, Muhammad Zakria Zakar. 2018. Patient satisfaction with doctors in public diabetes clinic of Pakistan: prevalence and determinants. Rawal Medical Journal, 43(1): 8-13. | X |

- Dr. Khalil Ahmad

| Article | HEC Category | |
|---------|--|---|
| 1 | Alvi, F. S. & Ahmad, K. (July-Dec.2018). An Analytical Study on Emerging Adulthood in Lahore City. Journal of the Punjab University Historical Society. Vol. No.81, Issue. No.2. pp.65-71. HEC recognized Y category Journal | Y |
| 2 | Mushtaq, M., Ahmad, K., Farooq, A., and Saeed, a. (2018). Relative Deprivation and Robbery: A Study of convicted Inmates I Southern Punjab, Pakistan Journal of the Research Society of Pakistan. Vol.55, Issue No.1 (January-June, 2018): 171-186. HEC recognized X category Journal | X |
| 3 | Farooq, M., Saeed, A., Ahmad, K., Ata, G., and Sami, A. (2017). Making Sense of Electronic Media Regulatory Agencies: A Case fo PEMRA. Journal of Managerial Sciences. Vol. XI, No. 3 (Special Edition FMM 2017): 437-456. HEC recognized Y category Journal | Y |
| 4 | Sheikh, K. S., Ahmad, K., Farooq, A., Alvi, F. S., (2017). Concept and Conception of Civil Society in Western and Islamic Traditions: A Comparative Analysis of Secular and Islamic Faith-based Civil Society Practitioners in Pakistan and Bangladesh. Journal of Political Studies, Vol. 24, Issue - 1, pp 191:225 HEC recognized X category Journal | X |

- Dr. Fauzia Saleem Alvi

| Article | HEC Category | |
|---------|---|----|
| 1 | Alvi, F. S. & Ahmad, K. (July-Dec.2018). An Analytical Study on Emerging Adulthood in Lahore City. Journal of the Punjab University Historical Society. Vol. No.81, Issue.No.2. pp.65-71. HEC recognized Y category Journal | Y |
| 2 | Alvi, F. S., Usman, A., Amjad, A., (January-June 2018) The Ecological Systems Theory: A Dimension of Understanding the Changing Youth in Pakistan. Journal of the Research Society of Pakistan, Vol. 55, Issue-1, pp. 95:105. | -- |



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| 3 | Masud, Z., Kanwal, A., Alvi, F. S., Farooq, S.,(Dec.2017) Relationship Of Spirituality and Social Work Education: Views Of Social Work Students. Academic Research International (AR Int.) ISSN-L: 2223-9553. Vol. 08 Issue.04, pp.239-242 | -- |
| 4 | Sheikh, K. S., Ahmad, K. , Farooq, A., Alvi, F. S., (2017). Concept and Conception of Civil Society in Western and Islamic Traditions: A Comparative Analysis of Secular and Islamic Faith-based Civil Society Practitioners in Pakistan and Bangladesh. Journal of Political Studies, Vol. 24, Issue - 1, pp 191:225 HEC recognized X category Journal | X |

- Dr. Ahmed Usman

| Sr. No | Article | Impact Factor |
|---------|---|---------------|
| 1 | Amjad, A., Amjad, U., Zakar, R., Usman, A., Zakar, Z., Fischer, F. (2018). Determinants Associated with Caesarean Section Deliveries among Child Bearing Women Aged 15-49 — Secondary Analysis of Pakistan Demographic Health Survey 2012-13. https://doi.org/10.1186/s12884-018-1743-z | 3.08 |
| 2 | Khurshid, A., Usman, A., Farooq, U. (2018) Traditional Milk Marketing Chain: One of the Leading Causes of Fatal Diseases in Pakistan | 0.58 |
| Article | HEC Category | |
| 1 | Alvi, F. S., Usman, A., Amjad, A., (January-June 2018) The Ecological Systems Theory: A Dimension of Understanding the Changing Youth in Pakistan. Journal of the Research Society of Pakistan, Vol. 55, Issue-1, pp. 95:105. | Y |
| 2 | Usman, A., Khan, A. H., Bashir, Q., Amjad, A., Amjad, U. (2018) Pushed to the Margins: Post-diagnosis Experiences of Hijra (Transgender) Sex Workers Living with HIV Infection. Pakistan, Journal of Psychological Research, | X |
| 3 | Kataria, J.R., Usman, A., Hussain, S., Usman, M., Amjad, A. (2018) Breaking the Bonds of Poverty: Effectiveness of Microcredit in Improving the Wellbeing of Brick Kilns' Laborers in Pakistan, Journal of South Asian Studies | X |
| 4 | Rubab, I., Usman, A. (2018) Women's Right of Inheritance: Choices and Challenges in Punjab, Journal of Islamic Thought and Civilization | Y |



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|----|--|----|
| 5 | Hussain, S., Usman, A., Amjad, A., Usman, M., Amjad, U. (2018) Violence against Muslims in Contemporary India, Journal of Indian Studies, | Z |
| 6 | Tariq, J., Sajjad, A., Usman, A., Ain, N.U., Amjad, A. (2018) 'Conventional Wisdom about Health-care Seeking': Factors Affecting the Utilization of Healthcare Services among Pakistani Women, Journal of Rural Development & Administration | Z |
| 7 | Ali, S., Usman, A., Latif, A., Zafar, Z (2018) Socio-cultural Determinants of Honor Killing in Pakistan, Journal of Indian Studies | Z |
| 8 | Tariq, H., Sajjad, A., Usman, A., Tariq, J., Amjad, A (2018) Factors Shaping Pakistan-Iran Relations Past, Present and Prospects for Future | Z |
| 9 | Bashir, Q., Usman, A., Amjad, A., Amjad, U. (2017). The Taboo that Silences - Awareness about Sexual and Reproductive Health Issues among Adolescent Females during Pubertal Transition. Isra Medical Journal, 9 (6): 381-385. | -- |
| 10 | Usman, A. (2017). The Seyp System: An Institution towards Decline in Rural Pakistan. Pakistan Journal of Social Sciences, 37 (1): 91-101. | -- |
| 11 | Usman, A., Hussain, S., Usman, A. (2017). Caste and Character of Candidates, Political Patronage and Voting Behavior in India. Journal of Indian Studies, 3 (2): 89-94. | -- |

▪ **Conferences, Seminars, Papers Presented and Workshops**

At the ISCS

- A Seminar was organized on “Intellectual Corruption: It's Depth, Extent & Mode of Eradication” with the collaboration of NAB, Lahore on 21 September, 2018.
- A Conference was organized on 7th September, 2018 “The Role of Water & Sanitation Rights and Role of Youth” with the collaboration of Strengthening Participatory Organization (SPO).
- A Seminar on “Popular Culture Across Border” by Prof. Joel Gordon of University of Arkansas, USA at the Institute of Social & Cultural Studies (ISCS) on 19th July, 2018.
- A Seminar was organized “Discover the Marvels on Cyberspace” on 4th May, 2018.
- An International Conference was organized on Pakistan Features: Imagination, Impact & Dialogue, presented papers on “Legitimizations of Violence against Women of Pakistan” with the collaboration of Arizona State University, USA and University of the Punjab on 12th – 13th May, 2018 at Avari Hotel, Lahore.



- A Seminar was organized on 16th March, 2018 on “Pakistan Journal of Urban Affairs” The Journal presents broad interdisciplinary research and academic solutions by the experts on Urbanization.
- A Lecture was conducted on 14th February, 2018 by Dr. Chris Moffat from Howard University on the topic of “The Role of Social Science in Public Life and Improving Society”.
- A Workshop Drive was conducted on 17th January, 2018 to give the opportunity to ISCS students to show their talent through Naat, Qiraat, Debates, Photography and Theater etc.
- A Training Workshop was conducted from 18th – 20th December, 2017 regarding Capacity Building Training of Dasu Hydropower Project Environment Team on Implementation of Environmental Management Plan (EMP)
- A Seminar was organized on 22 December, 2017 regarding “Awareness about Traffic Rules” by City Traffic Police, Lahore.
- A Seminar held in collaboration with NAB on Awareness on Anticorruption held on 14th December, 2017 in ISCS.
- A Workshop was organized at ISCS titled “Global Challenges in Development 2017”. Guest Speaker: Ms. Lea Swanson. Provisional Director USAID on 6th December, 2017.
- A Seminar was organized on 10th November, 2017 “Democracy and People’s Will” by Peter Hallword from Howard University.
- A Workshop was conducted on 16th October, 2017 on CV Development Skills with the collaboration of LUMS.

RESEARCH COLLABORATION

In the field of Research three agreements were signed by ISCS:

- Institute of Social & Cultural Studies, Punjab University and Punjab Commission on the Status of Women (PCSW) have signed a memorandum of understanding (MoU) to increase awareness of women’s rights and engage students in research efforts about women related issues
- Institute of Social & Cultural Studies and UNICEF
- Institute of Social & Cultural Studies and Ministry of Human Rights
- **Foreign and Indigenous linkages**
A joint research program among University of the Punjab, University of Karachi and Bielefeld University, Germany, titled ‘Violence Research and Development’. In this regard four researchers were selected from all over Pakistan.



Faculty of Commerce

HAILEY COLLEGE OF BANKING & FINANCE

○ Publications

Faculty Members Research Publications

| S. No | First Author | Second Author | Third Author | Publication Name | Research Journal | Volume | Month & Year |
|-------|-----------------------|---------------------|--------------|---|---|--------|--------------|
| 1. | Mubbsher Munawar Khan | Humaira Asad | Irsa Mehboob | Investigating the Consumer Behavior for Halal Endorsed Products: Case of an Emerging Muslim Market | Journal of Islamic Marketing | 8(4) | Nov, 2017 |
| 2. | Mubbsher Munawar Khan | Muhammad Ilyas | | From monopoly to free market: A case of PTCL | Abstract Proceedings of the 7th Asian Management Research & Case Study Conference 2018 – Convergence or Divergence: Emerging Trends in Management Research and Cases in Asia, organized by LUMS, Bhurban, Murree, Pakistan, March 23-24, 2018 | 2018 | Mar, 2018 |
| 3. | Mubbsher Munawar Khan | Kanza Iqbal | | Measurement of Consumers' Purchase Intention towards Halal Endorsed Products in Pakistan | Proceedings of the 9th Global Islamic Marketing Conference – Advances in Islamic Business (ISBN: 978-1-5272-2311-0), Tunis, Tunisia, April 25-27, 2018 | 2018 | Apr, 2018 |
| 4. | Mubbsher Munawar Khan | Muhammad Iqbal Rana | | Corporate Branding and Consumer' Product Evaluation: A Strategic Marketing Approach (http://conference.bam.ac.uk/BAM2018/htdocs/conference_papers.php?track_name=Marketing%20and%20Retail#Full%20Papers) | Proceedings of the British Academy of Management (BAM) 2018 Conference – Driving Productivity in Uncertain and Challenging Times (ISBN: 978-0-9956413-1-0), Bristol, UK, September 4-6, 2018 | 2018 | Sep, 2018 |



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|----|----------------------|---------------------|-----------------------|---|--|--------|-------------|
| 5. | Talat Islam | Ghulam Ali | Abdul Aziz Khan Niazi | Employees' Response to CSR: Role of Organizational Identification and Organizational Trust | Pakistan Journal of Commerce and Social Sciences (HEC Recognized Y Category) | 12 (1) | April, 2018 |
| 6. | Sh. Usman Yousaf | Bushra Usman | Talat Islam | Staff Development Supervision Practices of Principals and its Effects on Teachers' Work Performance and Teachers' Growth in Primary Schools of Pakistan | Bulletin of Education and Research (HEC Recognized Y Category) | 40 (1) | April, 2018 |
| 7. | Talat Islam | Ghulam Ali | Zeshan Ahmer | Consequences of Leader-member Exchange in Hospitality Sector: Moderating Role of Gender | Journal of Managerial Sciences (HEC Recognized Y Category) | 11 (3) | Dec, 2017 |
| 8. | Mohd. Hizam-Hanafiah | Sheikh Usman Yousaf | Bushra Usman | The Influence of Psychological Capital on The Growth Intentions of Entrepreneurs: A Study on Malaysian SME Entrepreneurs | Business and Economic Horizons (Scopus Indexed Journal) | 13 (5) | Oct, 2017 |

HAILEY COLLEGE OF COMMERCE

○ Publications

| S. No | First Author | Second Author | Third Author | Publication Name | Research Journal | Volume | Month & Year |
|-------|------------------------|---------------|---------------------------|--|-----------------------------------|--------|--------------|
| 1 | Dr. Hassan Mobeen Alam | | | Intellectual Capital and organizational performance: Mediating Role of Entrepreneurial Orientation in SME's Sector of Pakistan | Mang. Research & Emerging Science | 5(1) | 2018 |
| 2 | Ishfaq Ahmed | Bilal Nafees | Muhammad Ali Jibran Qamar | Lucrativeness of Islamic Vs. Conventional Mutual Funds in Pakistan | <i>Pakistan Business Review,</i> | 9(4) | 2018 |



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|----|---------------|--------------------------|----------------|--|--|--------|------|
| 3 | Ishfaq Ahmed, | Farooq Anwar | Muhammad Waqas | Effects of external prestige on emotional labor: mediation by organizational identification and moderation by perceived organizational support | <i>Middle East Journal of Management</i> | | 2018 |
| 4 | Ishfaq Ahmed | Ahmad Usman | Sajid Nazir | Safety practices in informal industrial segment of Pakistan | <i>Elsevier publishers–Clarivate Analytics</i> | 110 | 2018 |
| 5 | Ishfaq Ahmed | Muhammad Zeeshan Shaukat | | Computer Users' Ergonomics and Quality of Life – Evidence from a Developing Country | <i>International Journal of Injury Control and Safety Promotion</i> | 25(2), | 2018 |
| 6 | Ishfaq Ahmed, | Zeeshan Shaukat | Ahmad Usman | Occupational health and safety issues at informal economic segment of Pakistan: a survey of construction sites | <i>International Journal of Occupational Safety and Ergonomics</i> | 24(2), | 2018 |
| 7 | Ishfaq Ahmed | Talat Islam | Ghulam Ali | Effects of ethical leadership on bullying and voice behavior among nurses: Mediating role of organizational identification, working conditions and workload. Available in early cites in Leadership in Health Services | <i>Indexed Journal</i> | | 2018 |
| 8 | Ishfaq Ahmed | Wasimul Rahman, | Fouzia Ali | Predicting Employee Performance through Organizational Virtuousness: Mediation by Affective Wellbeing and Work Engagement | <i>Journal of Management Development</i> | 37(6) | 2018 |
| 9 | Ishfaq Ahmed | Talat Islam | | Mechanism between perceived organizational support and transfer of training: Explanatory role of self-efficacy and job satisfaction | <i>Management Research Review</i> | 41(3), | 2018 |
| 10 | Ishfaq Ahmed | Talat Islam | Ghulam Ali | Protecting healthcare through organizational support to reduce turnover intentions. International Journal of Human Rights in Healthcare | <i>Emerlad–Emerging Source Citation Indexed & Scopus Indexed Journal</i> | 11(1) | 2018 |



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|----|--------------------------|------------|----------|--|---|-------------------|------|
| 11 | Danish, Rizwan. Qaiser | Humayon | Iqbal | The Impact of Service Quality and Service Value on Customer Satisfaction through Customer bonding | <i>European Online Journal of Natural and Social Sciences</i> | 7 (1s) | 2018 |
| 12 | Danish, Rizwan. Qaiser | Ishaq | Ishaq, N | Testing Multidimensional Green Brand Equity in Cross Cultural Study | <i>Technological and Economical Development of Economy</i> | | 2018 |
| 13 | Danish, Rizwan. Qaiser | Sair, S. A | | Determinants of M-commerce Adoption Intention: The Mediation Effect of Personal Innovativeness | <i>Pakistan Journal of Commerce and Social Sciences</i> | 23 | 2018 |
| 14 | Dr. Rizwan Qaiser Danish | | | Impact of Advertisement on Customer Satisfaction in Telecom Sector of Pakistan | Journal of Statistics | ABDC, ISI indexed | 2017 |
| 15 | Dr. Rizwan Qaiser Danish | | | Objectives of Islamic banks: a missive from mission statements and stakeholders' perceptions | Journal of Islamic Accounting and Business Research | 28(2) | 2017 |
| 16 | Dr. Rizwan Qaiser Danish | | | Impact Of Talent Management Dimensions On Innovative Work Behavior: Mediation Of Organizational Learning, in press | The Science International | 5(2), | 2017 |
| 17 | Dr. Rizwan Qaiser Danish | | | The effect of social relationships on the innovative behaviour of employees mediated by psychological wellbeing in pharmaceutical industry of Pakistan | European online Journal of Natural and Social Sciences | 5(1) | 2017 |
| 18 | Dr. Muqaddas Rehman | | | Intellectual Capital and organizational performance: Mediating Role of Entrepreneurial Orientation in SME's Sector of Pakistan | Mang. Research & Emerging Science | 28(1) | 2017 |
| 19 | Lubna Uzair | | | Determinants of consumer satisfaction at super markets: An empirical study from Pakistan | Science International Lahore | | |



- **Research Journals**
Research Journal of Commerce
Hailey College Published Annual Journal Al-Iqtisad
- **Research Collaboration:** Funding Grants for R&D
HEC and University of the Punjab

Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

The Department of Economics was actively involved in research and development during October 2017 to September 2018 as it initiated research collaboration process with Universities in France and Germany. The faculty participated in national and international conferences, won and successfully completed various research projects, published research papers in well reputed journals, supervised M.Phil. and Ph.D. research work.

- **Project:** Completed

| Title of Project | Name of PI ¹ | Sponsoring Agency | Project Start Date | Duration | Total Approved Budget |
|--|---------------------------|---|--------------------|------------|-----------------------|
| Impact of Training on Female Labor Force Participation: Evidence from Manufacturing Sector | Dr. Mumtaz Anwar Chaudhry | Pakistan Commission on the Status of Women (PCSW) | September 28, 2018 | 3.5 Months | Rs. 495,000/- |
| Income Convergence in Asian Countries | Dr. Kalsoom Zulfiqar | University of the Punjab | June 2017 | 01 Year | Rs. 150,000/- |
| Market Entry Decision by a Necessity Entrepreneur | Abid Raza Khan | University of the Punjab | December 2017 | 07 Months | Rs. 125,000/- |

- **Project:** Newly Launched

| Title of Project | Name of PI ² | Sponsoring Agency | Project Start Date | Duration | Total Approved Budget |
|--|---------------------------|---|--------------------|------------|-----------------------|
| Impact of Training on Female Labor Force Participation: Evidence from Manufacturing Sector | Dr. Mumtaz Anwar Chaudhry | Pakistan Commission on the Status of Women (PCSW) | September 28, 2018 | 3.5 Months | Rs. 495,000/- |

- **Publications:** Books / Edited / Report

Dr. Mumtaz Anwar Chaudhary was recognized for his significant contribution as author of various reports during reference period. The details are as follows.

- Punjab Economic Report 2017
- Road Scorecard: A Framework for Road Sector Development (PERI's Report No. 429)
- Analysis of Annual Development Programme 2016-17

¹ Principal Investigator (PI)

² Principal Investigator (PI)



○ **Research Publication** Statistics by Faculty of Department of Economics

| Name | Research papers (National) | | Research papers (International) | | Total |
|---------------------------|---------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------|
| | In impact factor journals | In non-impact factor journals | In impact factor journals | In non-impact factor journals | |
| Dr. Mumtaz Anwar Chaudhry | | 07 | | | 07 |
| Dr. Kalsoom Zulfiqar | | 04 | | | 04 |
| Dr. Abdul Salam | | 01 | | | 01 |
| Dr. Azmat Hayat | | 02 | | | 02 |
| Dr. Atif Kahan Jadoon | | 02 | | | 02 |
| Dr. Amjad Ali | | 02 | | 01 | 03 |
| Ms. Ambreen Sarwar | | 01 | | | 01 |

○ **Conferences, Seminars and Workshops, etc.**

The Department of Economics has arranged a number of seminars inviting known economists and social scientists including Dr. Pervaiz Hasan, Dr. Nadeem ul Haq, Dr. Murniati Mukhlisin from Malaysia and Ajmal Hashmi. The brief details are as follows:

- One day seminar on “How Pakistan Became an Asian Tiger by 2050”
- One day seminar on “Islamic Economics, Finance and Accounting”
- One day seminar on “Mitti Connections – Giving Back to your Homeland”
- One day seminar on “Distortions in Producer Incentives of Cash Crops in Pakistan”

○ **Research Journal**

Pakistan Economic and Social Review (PESR) is a bi-annual journal (X - Category) of Department of Economics and it is indexed and/or abstracted in the IBSS (International Bibliography of the Social Sciences), BAS (Bibliography of Asian Studies), International Bibliography of EconLit, Cabell's Directories, EBSCO, Index Copernicus, ULRICH's periodicals Directory, DRJI and LabourDoc. The articles published in PESR during Oct 2017 – Sep 2018 is also provided.

- Volume 55 Number 2 (Winter 2017)
 - Post – ATC Impacts on Product Intensive and Extensive Trade Margins: A Quantitative Analysis (Yasmin Abdul Wahab and Abdul Jalil)
 - Islamic Welfare State: A Critique of Pervez's Ideas About Islam (Muhammad Iqbal Chawla)
 - A Systematic Review of E – Government Evaluation (Hamza Ahmad Qureshi, Yaamina Salman, Sidra Irfan and Nasira Jabeen)
 - Antecedents and Consequences of Organizational Commitment of Teachers: Case of University of the Punjab (Labiba Sheikh)



- Impact of Remittances on Expenditures and Poverty at Household Level in Pakistan (Rehmat Ullah Awan, Fasahat Waqar, Shazia Rahim and Falak Sher)
- Prices of Food Grains and Farm Inputs in Pakistan: Empirical Analysis of Farmer's Incentives and Terms of Trade (Abdul Salam)
- Bi – directional Associations among Educational Quality, Institutions and Social Inclusion: SEM Analysis (Aribah Aslam, Naheed Sultana and Iftikhar Yasin)
- Military Spending, Inequality and Economic Growth: Evidence from Pakistan (Muhammad Ramzan Shiekh, Muhammad Hanif Akhtar, Asad Abbas and Muhammad Imran Mushtaq)
- Bridging Top and Bottom: Multi-Level Model of Servant Leadership, Identification with Leader and Team Creativity (Ishfaq Ahmed, Wasim ul Rehman, Muhammad Khalid Khan, Ghulam Ali and Farooq Anwar)
- Determinants of Social Progress and its Scenarios under the Role of Macroeconomic Instability: Empirics from Pakistan (Amjad Ali and Chan Bibi)
- Testing Cognitive – Experimental Theory: Effect of Economic Vs Fear Appeals on Perceived Value and AD Evaluation of Saving Schemes Advertisements and Moderation of Need for Cognition (Anjum Zia, Syed Hasan Raza and Moneeba Iftikhar)
- Exchange Rate Volatility and Productivity Growth Nexus in Selected Asian Countries (Rukhsana Kausar and Kalsoom Zulfiqar)
- Macroeconomic Instability and its Role on Income Inequality in Developing Countries: A Panel Data Analysis (Allah Ditta and Muhammad Azmat Hayat)
- Volume 56 Number 1 (Summer 2018)
 - Governance, Corruption and Economic Growth: A Panel Data Analysis of Selected SAARC Countries (Rehmat Ullah Awan, Tahseen Akhtar, Shazia Rahim, Falak Sher and Ahmed Raza Cheema)
 - Fiscal Policy for Inclusive Growth: A Case study of Pakistan (Kalsoom Zulfiqar)
 - Governance and Management of State – Owned Enterprises in Pakistan (Shabana Naveed, Yaamina Salman, Nasira Jabeen, Muhammad Zafar Iqbal Jadoon and Sidra Irfan)
 - Money Demand Function Revisited: The Role of Asset Prices in Pakistan (Hina Shafiq and Wasim Shahid Malik)
 - Mediating Effect of Work – Life Balance on Work Motivation of Post – Graduate Trainee Doctors in Public Sector Hospitals: Evidence from Pakistan (Afaf Khalid and Kashif Rathore)
 - Issues of Income Inequality under the Perceptive of Macroeconomic Instability: An Empirical Analysis of Pakistan (Amjad Ali)
 - Impact of Corporate Governance on Discretionary Earnings Management: A Case of Pakistani Firms (Mian Sajid Nazir and Talat Afza)
 - Behavioral Biases Across the Stock Market Investors: Evidence from Pakistan (Humaira Asad, Aatiqa Khan and Rafia Faiz)



DEPARTMENT OF INFORMATION MANAGEMENT

○ **R&D-An Overview**

Department of Information Management published its HEC recognized annual Pakistan Journal of Information Management & Libraries (PJIM & L) and the faculty's research got published in national and international journals.

○ **Publications**

▪ Prof. Dr. Khalid Mahmood

- Iqbal, H. M., Mahmood, K., & Iqbal, S. A. (2018). Factors contributing towards research productivity and visibility: A case study of Pakistan. *Libri: International Journal of Libraries and Information Studies*, 68(2), 85-98. [Germany]. [Impact Factor=0.400].
- Marei, H. F., Mahmood, K., & Almas, K. (2018). Critical size defects for bone regeneration experiments in dog mandible: Systematic review. *Implant Dentistry*, 27(1), 135-141. [USA]. [Impact Factor=1.023].
- Rafique, G. M., & Mahmood, K. (2018). Relationship between knowledge sharing and job satisfaction: A systematic review. *Information and Learning Science*, 119(5/6), 295-312. [UK].
- Tariq, M., Rehman, S. U., Mahmood, K., & Mustafa, G. (2018). Online information searching skills of business students. *Pakistan Journal of Information Management & Libraries*, 20, 39-59. [Lahore].

▪ Prof. Dr. Kanwal Ameen

- Alia Arshad & Kanwal Ameen (2018): Usefulness of Ejournal Consortium in Pakistan: Academic Staff's Perceptions and Expectations, *Serials Review*, DOI: 10.1080/00987913.2018.1506073 (IF=0.310)
- Ameen, Kanwal, Batool, S.H. & Naveed, M.A. (2018). Difficulties novice LIS researchers face while formulating a research topic. *Information Development*, <https://doi.org/10.1177/0266666918774875> (IF=1.691)
- Ahsan Ullah & Ameen, Kanwal. (2018). Account of methodologies and methods applied in LIS Research : A Systematic review. *Library & Information Science Research*, 40(1), 53-60. (IF=1.185).
- Soroya, S. H. & Ameen, Kanwal. (2018). What do they want? Millennials and role of libraries in Pakistan. *The Journal of Academic Libraries*, 44(2), 248-255. (IF=1.395)
- Rafiq, Mohammad, Ameen, Kanwal & Jabeen, Munazza. (2018). Barriers to digitization in university libraries of Pakistan: A developing country's perspective. *The Electronic Library*. EarlyCite (IF=0.607)
- Tabassum, F., Batool, S., & Ameen, Kanwal. (2018). Status of school libraries and developmental issues in Pakistan: A case study of public high schools. *Global Knowledge, Memory and Communication*, <https://www.emeraldinsight.com/doi/full/10.1108/GKMC-08-2018-0070>



- Amara Malik & Kanwal Ameen. (2018). Library and information science collaboration in Pakistan: challenges and prospects, *Information and Learning Science* , 119 (9/10), 555-571, <https://doi.org/10.1108/ILS-09-2017-0096>
- Arshad, Alia & Ameen, Kanwal. (2018). Academic scientists' scholarly use of information resources in the digital environment: Perceptions and barriers, *Global Knowledge, Memory and Communication* , 67 (6-7), 467-83.
- Arshad, Alia & Ameen, Kanwal. (2018) Scholarly Information Seeking of Academic Engineers and Technologists, *International Information & Library Review* , 51(3).
- Warraich, N. F., Malik, Amara & Ameen, Kanwal. (2018) Gauging the Collection and Services of Public Libraries in Pakistan. *Global Knowledge, Memory and Communication* ,67(4-5). 244-258.
- Piracha, H.A. & Ameen, Kanwal (2018). Research data managements practices of faculty members, *Pakistan Journal of Information Management & Libraries*, 20.

Papers Presented in International and National Conferences

- Ameen, Kanwal, Malik, Amara & Khan, Sana Naveed (2018). *LIM Education and Collaboration among the Developing Countries: An Overview of Opportunities and Barriers in the Age of Social Media* . IFLA World Library and Information Congress, 23-30 Aug., 2018, Kuala Lumpur, Malaysia.
- Mansoor, Faiqa & Ameen, Kanwal. (2018). "Perspectives on Role of University Libraries to Prevent Plagiarism among Research Scholars" in 4th International Conference Plagiarism across Europe and Beyond in Ephesus, Turkey, 9-11 May 2018.
- Arif, Muhammad & Ameen, Kanwal: (2018). "Factors affecting student use of web-based services: Application of UTAUT in the Pakistani context" presented in ACM/IEEE 2018 Joint Conference on Digital Libraries.
- Dr. Muhammad Rafiq
 - Ahmad, S., Rafiq, M. & Ahmad, S. (2018). Gender disparities in the use of Internet among graduate students of a developing society: A case of Pakistani universities. *Global Knowledge, Memory and Communication (formerly Library Review)*, 67(4/5), 226-243. DOI: <https://doi.org/10.1108/GKMC-11-2017-0092>
 - Rafiq, M., Ameen, K., & Jabeen, M. (2018). Barriers to digitization in university libraries of Pakistan: A developing country's perspective. *The Electronic Library*, 36(3), 457-470. DOI: <https://doi.org/10.1108/EL-01-2017-0012>
 - Arif, M., Ameen, K., & Rafiq, M. (2018). Factors affecting students use of web-based services: Application of UTAUT in the Pakistani context. *The Electronic Library*, 36(3), 518-534. DOI: <https://doi.org/10.1108/EL-06-2016-0129>
 - Khan, M. T., & Rafiq, M. (2018). Perceptions of Pakistani Library and Information Science Faculty and Practitioners about ALA Accreditation. *Pakistan Library & Information Science Journal*, 49(2), 2-13.



- Khan, M. T., & Rafiq, M. (2018). Trends in Adoption of Social Networking Sites. *Pakistan Library & Information Science Journal*, 49(1), 11-18.

Papers Presented in International and National Conferences

Rafiq, M. (June 4-7, 2018). *Institutional Repositories (IRs) at University of Pakistan: Status, Issues, and Sustainability*. 13th International Conference on Open Repositories, OR2018, Bozeman, Montana, USA.

▪ Dr. Nosheen Fatima Warraich

- Warraich, N. F., & Rorissa, A. (2018). Adoption of linked data technologies among university librarians in Pakistan: Challenges and prospects. *Malaysian Journal of Library & Information Science*, 23(3), 1-13.
- Jan, S. U., Anwar, M. A., & Warraich, N. F. (2018). The relationship between emotional intelligence, library anxiety, and academic achievement among the university students. *Journal of Librarianship and Information Science*, 0961000618790629.
- Warraich, N. F., Malik, A., & Ameen, K. (2018). Gauging the collection and services of public libraries in Pakistan. *Global Knowledge, Memory and Communication*. 67(4/5), 244-258.
- Warraich, N. F., Ali, I., & Yasmeen, S. (2018). Keeping found things found: challenges and usefulness of personal information management among academicians. *Information and Learning Science*, 119(12), 712-720.
- Ali, I., & Warraich, N. F. (2018). Linked data initiatives in libraries and information centres: a systematic review. *The Electronic Library*, 36(5), 925-937.
- Butt, N., Warraich, N. F., & Tahira, M. (2018). Development level of electronic government services: An empirical study of e-government websites in Pakistan. *Global Knowledge, Memory and Communication*.
- Rafiq, S., & Warraich, N. F. (2018). Medical undergraduate students' perception towards the use and non-use of e-books: a case from Pakistan. *Collection and Curation*.
- Wahid, N., Warraich, N. F., & Tahira, M. (2018). Mapping the cataloguing practices in information environment: a review of linked data challenges. *Information and Learning Science*, 119(9/10), 586-596.
- Rasool, T., Warraich, N. F., Rorissa, A., & Tahira, M. (2018). Information Quality of E-Government Websites as perceived by University Students in Pakistan. *Journal of Political studies*. 25 (2), 181-195.

Papers Presented in International and National Conferences

- Warraich, Nosheen Fatima & Malik, Amara (2018). Challenges to Preserve Indigenous Newspapers: A Case of Developing Country. Paper presented at: IFLA WLIC 2018 – Kuala Lumpur, Malaysia – Transform Libraries, Transform Societies in Session 167 - News Media with Preservation and Conservation.



- Rasool, T., & Warraich, N. F. (2018, April). Does Quality matter: A systematic review of information quality of E-Government websites. In *Proceedings of the 11th International Conference on Theory and Practice of Electronic Governance* (pp. 433-442). ACM. Galway
- Rasool, T., Warraich, N. F., & Rorissa, A. (2018, April). A study of the information quality of e-government websites in Pakistan. In *Proceedings of the 11th International Conference on Theory and Practice of Electronic Governance* (pp. 696-698). ACM. Galway
- Saleem, Q. U. A., Butt, N., & Warriach, N. F. (2018, January). Applications of linked data technologies in libraries: Technical and ethical considerations. In *Information Management and Processing (ICIMP), 2018 International Conference on* (pp. 11-15). IEEE, London.
- Dr. Syeda Hina Batool
 - Batool, S.H. & Webber, S. (2017). Conceptions of school libraries and the role of school librarians: findings from case studies of primary schools in Lahore. *Information Research*, 22(1). Retrieved from <http://www.informationr.net/ir/22-1/colis/colis1606.html>
 - Ameen, K., Batool, S.H. & Naveed, A. (2018). Difficulties novice LIS researchers face while formulating a research topic. *Information Development*. Retrieved from <http://journals.sagepub.com/doi/abs/10.1177/0266666918774875>
 - Ashiq, M., Ur Rehman, S. & Batool, S. (2018). Academic Library Leaders' Challenges, Difficulties and Skills: An Analysis of Common Experiences . *Libri*, 68(4), pp. 301-313. Retrieved 22 Feb. 2019, from doi:10.1515/libri-2018-0063

Papers Presented in International and National Conferences

- Paper presented at International Conference on
- Information Management & Processing (ICIMP), titled Learning through video games: A case study of private schools of Pakistan, London, 12-14 January, 2018.
- Dr. Saira Hanif Soroya
 - Sabah, Fahad; Hassan, Saeed-Ul; Muazzam, Amina; Iqbal, Sehrish; Soroya, Saira Hanif; Sarwar, Raheem. (2018). Scientific Collaborations Networks in Pakistan and their Impact on Institutional Research Performance: A Case Study Based on Scopus Publications. *Library Hi Tech (Impact Factor)*
 - Ara, Mehvish & Soroya, Saira Hanif. (2018). Do We Deliver What They Expect? Finding The Gap Between Users' Expected and Currently Received Library Services. *Pakistan Journal of Library and Information Science* 44(4 December). 49(1)
 - Bashir, Faiza, Soroya, Saira Hanif., and Khanum, Almas. (2018). Users' Satisfaction as a Valid Measure for Information Resources: A Case of Public Libraries. *The Journal of Library Administration*. 58(3)



- Soroya, Saira Hanif & Kanwal Ameen. (2018). What do they want? Millennials and role of libraries in Pakistan. *Journal of Academic Librarianship*. 44 (2) Impact Factor

Papers Presented in International and National Conferences

- Soroya, Saira Hanif & Khaliq, S. (2018). Reference Success: What makes library users' willingness to return. 10th QQML Annual Conference 2018. Greece, Chania, Crete.
 - Soroya, Saira Hanif & Ameen, K. (2017). Subject -Based Reading Behavior Differences of Young Adults under Emerging Digital Paradigms. *ASIS&T Annual Conference 2017*. November 2017. Washington, D. C. USA
 - Soroya, Saira Hanif. Ilyas, Aleeha & Ameen, Kanwal. (2018). Information Behavior of Diabetic Patients in Cyber Age. Paper presented in International Conference on "A Journey from UN MDGs to SDGs: Proactive Role of Libraries" held in Karachi, Pakistan on 2-4 August 2018.
- Dr. Alia Arshad
- Arshad, A., & Ameen, K. (2017). An Investigation into the Correlation among Academic Staff's E-journals Use, E-literacy Skills, Demographic variables and Research Productivity. *Pakistan Journal of Information Management & Libraries (PJIM&L)*, 19, 74-95.
 - Arshad, A., & Ameen, K. (2018). Scholarly Information Seeking of Academic Engineers and Technologists. *International Information & Library Review*, 1-8.
 - Arshad, A., & Ameen, K. (2018). Usefulness of E-journals Consortium in Pakistan: Academic Staff's Perceptions and Expectations. *Serials Review*, 44(4), In Press.
 - Arshad, A., & Ameen, K. (2018). Academic Scientists' Scholarly Use of Information Resources in the Digital Environment: Perceptions and Barriers. *Global Knowledge, Memory and Communication*, 67(6/7), 476-483.

Papers Presented at National and International Conferences

- Alia Arshad & Kanwal Ameen presented a Paper entitled "Academic Staff's Use of E-Journals: An Investigation into the Correlation of E-Journals Use, Demographic Variable, Internet Use, E-Literacy Skills and Research Productivity" at International Conference of Information Management and Processing (ICIMP 2018), London, UK, 12th-14th January, 2018. an
- Alia Arshad & Kanwal Ameen presented a paper entitled "Social Science Faculty Information Needs and E-journals Use Behavior at the University of the Punjab" at Pakistan Library Club International Conference on August 2-4, Karachi, Pakistan.
- Alia Arshad & Kanwal Ameen presented a paper entitled "Arts and Humanities Academics Information Needs in Digital Era" at 14th International Conference of Knowledge Management, Vancouver, Canada, 9th-10th November, 2018.



- Ms. Amara Malik
 - Amara Malik & Kanwal Ameen (2018). Library and information science collaboration in Pakistan: challenges and prospects, *Information and Learning Science*, 119 (9/10), 555-571, <https://doi.org/10.1108/ILS-09-2017-0096>
 - Nosheen, N. F., Malik, Amara & Ameen, Kanwal. (2018) Gauging the Collection and Services of Public Libraries in Pakistan. *Global Knowledge, Memory and Communication*, 67(4-5). 244-258.

Papers Presented in International and National Conferences

Ameen, Kanwal, Malik, Amara & Khan, Sana Naveed (2018). *LIM Education and Collaboration among the Developing Countries: An Overview of Opportunities and Barriers in the Age of Social Media*. IFLA World Library and Information Congress, 23-30 Aug., 2018, Kuala Lumpur, Malaysia.

Awards and Grants

- Prof. Dr. Kanwal Ameen got PU travel grant to present paper at IFLA World Library and Information Congress, 23-30 Aug., 2018, Kuala Lumpur, Malaysia.
 - Dr. M. Rafiq got Fulbright Post-Doc Fellow, State University of New York (SUNY) at Buffalo, NY, USA Dec. 2017 - Dec. 2018
 - Dr. Nosheen Fatima Warriach got travel grant from PU to present paper at "11th International Conference on Theory and Practice of Electronic Governance. ACM. Galway.
 - Dr. Nosheen Fatima Warriach got travel grant from PU to present Poster in ASIS&T 2017 80th Annual Meeting of the Association for Information Science and Technology, Washington D.C.
 - Dr. Nosheen Fatima Warriach got travel grant from from PU to present paper at "A Journey from UN MDGs to SDGs: Proactive Role of Libraries" held in Karachi, Pakistan on 2-4 August 2018.
 - Dr. Alia received PU travel grant to present paper in national conference on "A Journey from UN MDGs to SDGs: Proactive Role of Libraries" held in Karachi, Pakistan on 2-4 August 2018.
 - Dr. Alia got travel grant from Higher education Commission, Islamabad to present paper at ICIMP 2018, London, UK and ICKM 2018, Vancouver, Canada.
 - Dr. Saira Hanif got HEC travel grant to present paper at International Conference held in Greece, 10 th QQML conference 2018
 - Dr. Saira Hanif got first Place winner Award for International Paper Contest, ASIS& T 2017
 - Dr. Saira Hanif got funded project approved on Information Behavior of Diabetic Patients and Role of Diabetic's Institute Pakistan: A Case Study (2017, University of the Punjab, Lahore)
- **Conferences, Seminars and Workshops, etc.**
- Professor Dr. Khalid Mahmood
- Participated as resource person in the Faculty Development Workshop organized by University of Central Punjab, Lahore, Sep. 11, 2018.



- Participated as resource person in the Faculty Development Workshop organized by University of the Punjab, Lahore, Sep. 6, 2018.
- Participated as resource person in a workshop on “Koha: Integrated library system,” organized by Department of Information Management, University of the Punjab, Lahore, Aug. 30-31, 2018.
- Participated as the Chief Guest in an International Conference organized by Pakistan Library Club, Karachi, Aug. 2-4, 2018.
- Participated as resource person in a workshop on “SPSS software,” organized by University of Peshawar, Baragali Campus, Jul. 20, 2018.
- Participated as resource person in a workshop on “Knowledge management at Riphah libraries: Procedures, practices and change management,” organized by Riphah International University, Islamabad, Jul. 19, 2018.
- Participated as resource person in a workshop on “Global vision for libraries,” organized by National Library of Pakistan, Islamabad, Jul. 9, 2018.
- Participated as resource person in a workshop on “Resource sharing, networking and consortium,” organized by COMSATS University Islamabad Lahore Campus and Pakistan Scientific and Technological Information Center (PASTIC), Jun. 28, 2018.
- Participated as resource person in a workshop on “Library automation and system management,” organized by Punjab Higher Education Commission, Lahore, Apr. 26, 2018.
- Participated as resource person in a workshop on “SPSS software,” organized by Lahore Medical & Dental College, Apr. 9, 2018.
- Participated as resource person in a workshop on “Quantitative research process,” organized by University of Management 7 Technology, Apr. 10, 2018.
- Participated as resource person in a workshop on “Integrated library systems and open repositories: Challenges for library professionals,” organized by University of Education, Lahore, Mar. 26, 2018.
- Participated as resource person in a workshop on “SPSS software,” organized by Lahore Medical & Dental College, Feb. 12, 2018.

Professor Dr. Kanwal Ameen

- Participated as resource person in a workshop on “Qualitative data analysis” organized by Institute of Research Promotion, Lahore, Feb. 8-9, 2018.
- Delivered a lecture in a workshop on “Literature search, citation management and how to write and publish a research paper” organized by Shalamar Medical & Dental College, Lahore, Feb. 1, 2018.
- Keynote speech on ‘*Collaboration in Curriculum Development in the Developing Countries*’. WLIC 2018 SIG Satellite meeting on LIS Education in the Developing Countries, University of Malaysia. IFLA World Library and Information Congress, 23-30 Aug., 2018, Kuala Lumpur, Malaysia.
- Invited speaker on ‘Role of LIS Schools in SDGs Development, International Conference on *A journey from UN Millennium Development Goals (MDGs) to Sustainable Development Goals (SDGs): Proactive Role of Libraries*’, in Karachi, Pakistan on August 2-4, 2018. Organized by (Pakistan Library Club) with the collaboration of IFLA (Asia & Oceania), Special Library Association (Asian Chapter) & Goethe Institute.



- Invited Speaker on ' *Ways/Methods of resource sharing among libraries* ' . A Seminar on Resource Sharing, Networking and Consortium: Challenges, Opportunities and Way Forward at COMSAT, 28 June, 2018
- Invited as guest speaker in a two day training workshop on "Communication & Leadership Skills" organized by Punjab Higher Education Commission from March 30-31, 2018 at Main Library, University of the Punjab, Lahore.
- Invited as guest speaker on "MENDELEY" (Citation Management Software & Literature Review Strategy) on 19th March 2018 organized by Lahore Medical and Dental College.
- Invited as guest speaker in an 2nd International Conference organized by Shalamar Medical & Dental College Lahore, Pakistan on "Literature Search, Citation Management and How to Write and Publish a Research Paper" on 1st February 2018. I delivered a lecture on "Reviewing Literature for Research Writings".

Dr. Saira Soroya

- Two-days training workshop on KOHA Open Source Software organized by Department of Information Management, at University of the Punjab, Lahore on 30-31 August, 2018.
- Two-days training workshop on Library Automation and Information Systems organized by PHEC at University of the Punjab, Lahore on May 2, 2018.
- Workshop on "Citation Management (Mendeley) Software" on May 15, 2018 at Government College University, Lahore.
- Two day workshop on "Art and Science of Writing Literature Review" on 14 December, 2017 at Department of Information Management, University of the Punjab, Lahore.

Dr. Hina

- Participated as Resource Person and delivered a lecture on Information Resource Management Tools in HRDC New faculty development orientation program 2018, Organized by HRDC, Institute of Administrative Science, University of the Punjab, 5th September, 2018.
- Participated as Resource Person and delivered a lecture on Awareness of Green Literacy and Use of Library Resources at Shalamar, Institute of Health Sciences, 24th July, 2018.
- Conducted one day workshop on NVivo: a tool for qualitative research for PhD students of Institute of Sociology, University of the Punjab on 25th April, 2018.
- Conducted one day workshop on Mendeley (Reference Manager) software for Lahore Dental & Medical College students on 20th March, 2018.

Dr. Alia

Organized 'One Day Workshop on Linked Data Technologies in Libraries and Developing Institutional Repository' with collaboration of Dr. Nosheen Fatima Warraich on 7th February, 2018 at the Department of Information Management.



INSTITUTE OF ADMINISTRATIVE SCIENCES

Research & Development: Maintaining its sound track record, Institute of Administrative Sciences made immense contribution in the existing body of literature. In addition to these literary contributions, the faculty members of IAS were also awarded research project grants to accomplish their academic research interests.

○ **Research Publication**

- Jabeen, Tahira: Sumbal, Munazza: Taj, Neelofar (2017). Relationship Between Women Mobility and Sexual Harassment. Pakistan Journal of Criminology Vol. 9, No. 4, P 90-102
- Jabeen, Tahira; Tariq, Faiza; Jabar, Mamoon; Mishal; Fakh-un-Nisa (2018) Experiences of Christian Students in Public Schools of Lahore. Journal of Educational Sciences & Research Vol. 4 No. 2 Fall 2017

Dr. Raazia Hassan Naqvi, Lecturer

Dr. Raazia Hassan Naqvi, Dr Muhammad Ibrar, Dr. Chricline Walsh. History of Social Welfare and Domestic Violence Shelters Called Dar Ul Amans: A Case Study of Punjab Province Pakistan. Pakistan Journal of Criminology, Volume 10, Issue No. 2, P. 94-106.

INSTITUTE OF BUSINESS ADMINISTRATION

○ **Projects: Completed**

- Project titled "Is REVA a better Predictor of Shareholders' Value? A study of Pakistani Listed Cement Companies" has been completed by Mr. Yasir Ashraf, Lecturer -IBA through financial assistance from the University of the Punjab.
- Project titled "An Empirical investigating of Interest Rate and Exchange Rate Volatilities on Stock Market Returns in Pakistan", has been completed by Ms. Naseem Bukhari, Assistant Professor-IBA through financial assistance from the University of the Punjab.

○ **Publications**

- Sajida Nisar - Incharge Director-IBA, Dr. Nasira Jabeen, Dean-FEMS & Labiba Sheikh – Assistant Professor-IBA (2018). Reinventing Public Sector for Innovativeness and Performance: A Case Study of University of the Punjab, Lahore. *South Asian Studies* 33(1):9-65,. (Recognized "X" Category by HEC).
- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali & Labiba Sheikh Assistant Professor-IBA (2018). Perceived CSR and Micro-level outcomes: Moderating role of demographics. *Journal of Research Society of Pakistan*, 55(2):162-175. (Recognized "X" Category by HEC).
- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali & Humaira Asad Assistant Professor-IBA (2018). Environmental CSR and pro-environmental behaviors to reduce environmental dilapidation: the moderating role of empathy. *Management Research Review*, 10.1108/MRR-12-2017-0408. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Rashid Ahmad & Saima Saleem (2018). How commitment and satisfaction explain leave intention in police force? *Policing: An International Journal of Police Strategies & Management*, 10.1108/PIJPSM-12-2017-0154. (Emerald, Impact Factor: 0.646).



- Dr. Talat Islam, Assistant Professor-IBA & Jawad Tariq (2018). Learning organizational environment and extra-role behaviors: The mediating role of employee engagement. *Journal of Management Development*, 37(3):258-270. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Jawad Tariq & Bushra Usman (2018). Transformational Leadership and Four-Dimensional Commitment: Mediating role of job characteristics and moderating role of participative and directive leadership styles. *Journal of Management Development*, 37(9/10):666-683. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali & Abdul Aziz Khan Niazi (2018). Entrepreneurial intentions: the Role of Entrepreneurial Education. *Journal of Research and Reflections in Education*, 12(1):56-67. (Recognized HEC "Y" Category).
- Dr. Talat Islam, Assistant Professor-IBA and Rashid Ahmad (2018). Relationship between corporate social responsibility, work engagement and organizational commitment: Explanatory role of organizational identification. *Journal of Behavioral Sciences*, 28(2):112-130. (Recognized HEC "X" Category).
- Dr. Talat Islam, Assistant Professor-IBA, Haroon ur Rashid Khan, Khalid Zaman, et. al. (2018). Does higher military spending affect business regularity and growth specific measures? Evidence from the group of seven (G-7) countries. *Economia Politica*, Available online at: <https://link.springer.com/article/10.1007/s40888-018-0131-5> (Springer, Impact Factor: 0.970)
- Dr. Talat Islam, Assistant Professor-IBA and Ishfaq Ahmed (2018). Mechanism between perceived organizational support and transfer of training: explanatory role of self-efficacy and job satisfaction. *Management Research Review*, 41(3):296-313. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Ishfaq Ahmed and Ghulam Ali (2018). Effects of ethical leadership on bullying and voice behavior among nurses: Mediating role of organizational identification, working condition and workload. *Leadership in Health Services*, 10.1108/LHS-02-2017-0006. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali and Ishfaq Ahmed (2018). Protecting healthcare through organizational support to reduce turnover intention. *International Journal of Human Rights in Health Care*, 11(1): 4-12. (Emerald Publishing Group, ISI & Scopus Indexed).
- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali and Khalid Zaman (2018). Macroeconomic shocks and Malaysian tourism industry: Evidence from structural VAR Model. *Iranian Economic Review*, 22(4): 1113-1137. (Scopus Indexed).
- Dr. Talat Islam Assistant Professor-IBA, Farooq Anwar, Ishfaq Ahmed and Muhammad Waqas (2018). Effects of external prestige on emotional labor: mediation by organizational identification and moderation by perceived organizational support. *Middle East Journal of Management*, 10.1504/MEJM.2019.10015478. (Inderscience, ISI).



- Dr. Talat Islam, Assistant Professor-IBA, Ghulam Ali, Abdul Aziz Khan Niazi, Muhammad Ramzan and Usman Yousaf (2018). Employees' response to CSR: Role of organizational identification and organizational trust. *Pakistan Journal of Commerce and Social Sciences*, 12(1):126-139. (Recognized HEC "Y" Category).
- Dr. Talat Islam Assistant Professor-IBA, Usman Yousaf, and Bushra Usman (2018). Effects of supervision practices of principals on work performance and growth of primary school teachers. *Bulletin of Education and Research*, 40(1):301-314. (Recognized HEC "Y" Category).
- Mr. Yasir Ashraf Lecturer-IBA (2018). Is REVA a better predictor of shareholder's value? A study of Pakistani listed companies. *International Journal of Economics, Commerce, and Research (IJEER)*, 8(2):1-22.
- Dr. Humaira Asad, Assistant Professor IBA, Dr. Rafia Faiz, Assistant Professor-IBA & Attiqah Khan (2018). Behavioral Biases across the Stock Market Investors: Evidence from Pakistan. *Pakistan Economic and Social Review*, 56(1):185-209. (Recognized HEC "X" Category).
- Dr. Humaira Asad, Assistant Professor IBA, Dr. Rafia Faiz, Assistant Professor-IBA, Dilawar Paracha & Rehan Ahmad Faiz (2018). Understanding Local Cable Advertisement for Small Business. *Journal of Management Research*, 5(1):1-21. (Recognized HEC "Z" Category).
- Dr. Rafia Faiz, Assistant Professor IBA (2018). Antecedents and Consequences of Corporate Image: A comparison of Conventional and Islamic Bank. *Revista de Administracao de Empress*, 58(4):418-432 (Impact Factor 0.404).
- Dr. Rafia Faiz, Assistant Professor IBA (2018). Workplace Psychological Aggression, Job Stress and Vigor: A Test of Longitudinal Effects. *Journal of Interpersonal Violence*, <https://doi.org/10.1177/0886260518770650> (Impact Factor 2.443)
- **Conferences, Seminars and Workshops, etc.**
 - Dr. Humaira Asad, Assistant Professor-IBA and Dr. Rafia Faiz, Assistant Professor-IBA attended and presented a paper on "Isn't it all Because of my Appearance? – A Qualitative Study of Aesthetic Labour" in the 7th Asian Management Research and Case Conference 2018, "Convergence or Divergence: Emerging Trends in Management Research and Cases in Asia", held in Pearl Continental Hotel Bhurban, Murree on March 23-24, 2018.
 - Dr. Humaira Asad, Assistant Professor-IBA and Dr. Rafia Faiz, Assistant Professor-IBA attended and presented a paper on "Ethical Leadership and Turnover Intentions: Evidence from Pakistan" in the 7th Asian Management Research and Case Conference 2018, "Convergence or Divergence: Emerging Trends in Management Research and Cases in Asia", held in Pearl Continental Hotel Bhurban, Murree on March 23-24, 2018.
 - Dr. Humaira Asad, Assistant Professor-IBA attended and presented a paper on "Can Employees Voice Mediate the Impact of Leader-Member Exchange on their Innovative Behavior? Evidence from an Emerging Economy" in the South Asian International Conference (SAICON 2018) held at COMSTECH Headquarter, Islamabad Pakistan on 26-28 November 2018.



- Dr. Humaira Asad, Assistant Professor–IBA attended the training program on Islamic Finance for Academicians organized by Lahore University of Management Sciences (LUMS), Lahore from April 20-21, 2018.
- Dr. Rafia Faiz, Assistant Professor–IBA attended and presented a paper on “What Will They Think When I come to Work with My Huge Pregnant Body? Investigation of Professional Image of Pregnant Working Women in Pakistan” in the 32nd Annual Conference held at Bristol Business School, University of the West of England from the 4th - 6th September 2018.
- Dr. Rafia Faiz, Assistant Professor–IBA attended and presented a paper on “Work-Life Interface of Single Career Women: A Qualitative Study” in the 3rd International Research Conference on Economics, Business & Social Sciences held on December 12-13, 2018 in School of Economics with the cooperation of Commerce & IMS at Bahauddin Zakariya University, Multan.
- Dr. Rafia Faiz, Assistant Professor–IBA attended and presented a paper on “Impact of Status Consciousness on Consumer Purchase Intention and Brand Equity: The Mediating Role of Brand Associations” in the 3rd International Research Conference on Economics, Business & Social Sciences held on December 12-13, 2018 in School of Economics with the cooperation of Commerce & IMS at Bahauddin Zakariya University, Multan.
- Dr. Talat Islam, Assistant Professor IBA attended and chaired session in the 9th International Conference on Management Research (ICMR-2018), held on November 29-30, 2018 at Superior College, University Campus, Lahore.
- Dr. Talat Islam, Assistant Professor IBA attended and chaired session in the 1st International Conference on Management and Commerce (ICMC-2018) on “Sustainable Entrepreneurship From Knowledge Venture” held on April 4-5, 2018 at University of Gujrat, Gujrat.
- Ms. Tahira Nisar, Assistant Professor–IBA attended and presented a paper on “Services cape, Perceived Price Fairness, and Customer Loyalty: A Mediation Model” in the South Asian International Conference (SAICON 2018) held at COMSTECH Headquarter, Islamabad on 26-28 November 2018.
- IBA in association with M/s Human Capital Forum arranged a seminar on employability “Academic to Corporate” on 15 March 2018 for the students of BBA-Hons and MBA at IBA.
- IBA in association with Meezan Bank Limited arranged a seminar on awareness of “Islamic Banking and Finance” on 18 April 2018 for the students of BBA-Hons and MBA at IBA.
- IBA in association with State Bank of Pakistan arranged a seminar on awareness of “Microfinance” on 27 September 2018 for the students of BBA-Hons and MBA at IBA.
- IBA in association with Shaukat Khanum Memorial Cancer Hospital and Research Centre, Lahore arranged a seminar on awareness of “Breast Cancer” on 3rd October 2018 for the female students of this institute at IBA.



INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

○ **Research Publications, Journals and Books published**

| Name of faculty Member | Title of Research Paper | Name of Publishing Journal | Vol. |
|------------------------|---|---|-------------------------------------|
| Dr Aamir Sarwar | Story Beneath Story: Do Magazine Articles Reveal Forthcoming Returns On Stock Market? | African Journal of Business Management, 14 October, 2017 | <i>Vol. 11(19), pp. 564-581</i> |

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

○ **Research and Development**

A Research Project for the fiscal year (2017-18) funded by University of the Punjab was awarded to Dr. Ghulam Fatima, Dr. Rukhsana Bashir and Dr. Samina Ashraf.

Conferences, Seminars, Workshops, etc

Detail of the research publications, research papers presented in national and international conferences, seminars, workshops attended by the faculty members is given as follows:

○ **Publications: Books/ Edited**

Dr. Humara Bano (Assistant Professor & Incharge)

Two articles are accepted for the publication and are in press. The titles are:

- “ZPD” An Approach to Develop Urdu Reading and Writing Skills among Students with Hearing Impairment” is accepted for publication in Pakistan Journal of Special Education, Karachi. University of the Karachi.
- Impact of Parental Separation on Learning of Students with Visual Impairment is accepted for publication in Pakistan Journal of Special Education, Karachi. University of the Karachi

Papers Presentations in International Conferences

- Role of Madrasa’s Education in Pakistan: Experts Opinion
- Employees with Hearing Impairment and Issues related with their Work Place
- Implementation of Inclusive Education: A challenging Task for General School Administration
- A study of self-concept in students with mild developmental disabilities studying in institutions of Punjab
- Difference in Performance of male and female graduates opting special education as profession (Muneeba & Sobia)
- Improving listening skills through digital story telling at elementary level (Rafia Mukhtar, Muhammad Safar)
- A study of social adjustment of visually impaired students studying at Public institutions of Lahore



- Problems faced by Male and Female Employees with Disabilities during their Job in the Institutes of the Punjab
- A study of motivational factors of teacher's teaching for students with hearing impairment
- An exploratory study of problems in board examination faced by the special students of the Punjab
- Effects of Functional communication Training (FCT) on fast triggers and slow triggers in reading self-injury and self stimulatory for children with autism spectrum disorder
- A comparative study about awareness among persons with disabilities of their fundamental rights in Punjab

Paper Presentations in National Conference

- Factors effecting educational and personal success of students with physical disabilities
- Accessibility of public places and problems faced by persons with physical impairment
- Review of offered vocational skills of students with visual impairment in schools
- An analysis of errors in written expression of students with hearing impairment
- Job related problems faced by person with hearing impairment in Lahore

Lectures Delivered at National Level

Delivered a lecture on "Inclusive Education" at Directorate of Staff Development on 10-8-2018

Article published on

- "The Relationship among Organized Culture Leadership Behavior and Burnout of Special Education Teachers" in Research Journal "Mayar" ISSN: 2074-675X 2017. (Page:74 English section) . HEC recognized journal "X" category. International Islamic University, Islamabad.
- "Utilization of ICT by Students with Visual Impairment" in Journal of Inclusive Education. Vol.1, 2017 : ISSN-8999. Allama Iqbal Open University, Islamabad.

Papers Presentations in International Conferences

- Presented a Paper as co-author on "A study of the problems faced by students of Allama Iqbal Open University during teaching practice in special education institution" on 5th International Conference on Education and Research held from Nov. 21-23, 2017 at IER, University of the Punjab, Lahore.
- Presented a Paper as co-author on "Effects of Writing Interventions on Writing among Students with Physical Impairments" in the International Conference on Inclusive Education with theme 'Accommodating diversity: Creating Enabling Education Environment from October, 24-25, 2017 organized by University of Management & Technology, Lahore, Pakistan.

Participation at National Level Training

Participation in Plan2 Inclusive and Disability Awareness Workshop from 27-11-2017 to 01-12-2017 arranged by Plan International Pakistan at National Level.



Dr. Hina Fazil (Research and Publication)

- Hina, F., Fariha, A., Khushboo, S., & Ulfat, J. (2018). Problems Faced by Special Education Teachers of Regular and Inclusive Schools in dealing with Children with attention Deficit Hyperactivity Disorder. Pakistan Journal of Special Education. Department of Special Education, University of the Karachi, Vol,18.pp.187-204
- Ulfat, J., Hina, F., & Khushboo, S. (2018). Identification of Teacher's Strategies in Managing Challenges of Non-Compliance Behavior of Children with Intellectual and Developmental Disabilities. Pakistan Journal of Special Education. Department of Special Education, University of the Karachi, Vol,18.pp.233-246
- Hina, F., & Muhammad A. (2018) Educational and Social Considerations in Spouse Selection: Preferences of People with and without Special Needs. Journal of Educational Sciences and Research. Vol,05.pp.64-83

International Conference-Paper Presented

- Presented a research Paper on "Opportunities and Challenges Experienced by Women / Adolescent Girls with Intellectual and Developmental Disabilities" on 25-26 September, 2018. The International Conference on Women's Empowerment and Leadership: Challenges and Opportunities, organized by Sardar Bahadur Khan Women's University of Quetta.
- Presented a research paper on "Discernment of school administration about barriers in including students with hearing impairment" on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on "Development and validation of training schedules for children with Autism spectrum disorder" on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore. on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on "Problems of learning English language among children with and without special education" on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on "Satisfaction level of parents about the education of their children with intellectual disability studying in the special education school Ferozwala" on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on "Restructuring schools for inclusive education in Punjab. A case study" on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.



- Presented a research paper on “Parental satisfaction about employment of person with intellectual and development disabilities” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Views of parents about the role of computer games in developing basic mathematical concept among children with Autism Spectrum Disorder” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Prevalence of sensory problems among children with Autism Spectrum Disorder reported by teachers” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Cognitive development of children with intellectual and developmental disability” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Relationship of health problems with achievement and social adjustment of students with intellectual development” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “The sensory issues among boys with Autism Spectrum disorders living in Lahore” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “To study the availability of A.V Aids for students with special needs in Govt. Institutions of District Faisalabad” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Role of technology in speech and language development of children with Mental Retardation” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “A study of perceptions of special education teachers about the role of technology in the education of children with Mental Retardation” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Post school life of students with intellectual Disabilities” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.



- Presented a research paper on “Perception of students with hearing impaired about their “Favorite Heroes” on April 24-26, 2018. 1st International Conference on Research in Special Education (ICRSE-18), organized by Department of Special Education, University of the Punjab Lahore.
- Presented a research paper on “Voices of disabled persons about inclusive education” on 17 February, 2018 in 3rd international conference on research and practices (ICRPE), Organized by Faculty of education, Allama Iqbal Open University. Islamabad.
- Presented a research paper on “Identification of teacher’s strategies for managing challenges of non-compliance while teaching children with Intellectual and developmental disabilities” on 24-25 February, 2018 in 2nd international conference on research and practices (ICRPE), Organized by Faculty of education, Allama Iqbal Open University. Islamabad.
- Presented a research paper on “Identification of teacher’s strategies for managing challenges of non-compliance while teaching children with Intellectual and developmental disabilities” on 24-25 February, 2018 in 2nd international conference on research and practices (ICRPE), Organized by Faculty of education, Allama Iqbal Open University. Islamabad.
- Presented a paper as principal author on “A study of rural inclusive education program of students with special needs in Punjab” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as co-author on “Review of early childhood special education curriculum for young children with deafness” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as co-author on “Inclusion of children with visual impairment in the regular schools of the Punjab” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as principal author on “Status of Sign Language Interpretation at Higher Education: Perspective of students with hearing impairment” in International Conference on Inclusive Education with theme ‘Accommodating diversity: Creating Enabling Education Environment from October, 24-25, 2017 organized by University of Management & Technology, Lahore, Pakistan.
- Presented a paper as co-author on “Experiences of students with visual impairment studying in inclusive schools of Punjab province” in International Conference on Inclusive Education with theme ‘Accommodating diversity: Creating Enabling Education Environment from October, 24-25, 2017 organized by University of Management & Technology, Lahore, Pakistan.

**Dr. Samina Ashraf** (Research and Publication)*International conferences attended and presented papers.*

- Presented a research paper entitled current status of inclusive education for students with disabilities in Punjab in an international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled effects of computers based game based learning in the teaching of time concepts to children with mental retardation in an international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled motivational level of visually impaired and sighted children in the school: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled a study motivational level of visually impaired and sighted children in the school: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled motivational level of visually impaired and sighted children in the school: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled a study on development of abstract concepts among students with visual impairment: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled a study to highlight the services provided by the Microfinance institutions to persons with disabilities: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled problems faced by male and female employees with disabilities during their job in the institutions of Punjab: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled competencies of students with visual impairment to use computer technology for academic purpose: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled preferences of students with visual impairment for games in Lahore: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018



- Presented a research paper entitled studying the moral behavior of students with visual impairment in school atmosphere: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled satisfactional level of parents about the education of their children with intellectual disability studying in special education school Ferozwala: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled perception of graduate students with hearing about the worth of education: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled a comparative study about awareness among persons with disabilities of their fundamental rights in Punjab: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018
- Presented a research paper entitled Parental satisfaction about employment of persons with intellectual and developmental disabilities: An international conference on research in special education Organized by and held at the department of special education, university of the Punjab, Lahore on April 24-26, 2018.

Paper published

Paper entitled opinion of general education teachers about inclusion of students with visual impairment in regular schools, Published in the Journal of educational research, University of Sargodha 2018.

Research work completed

- Completed Research Project 2017-2018 .as Principal Investigator. The topic of project is "An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab". Granted by University of the Punjab.
- Completed Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore. as Co-Investigator. The topic of project is "An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab".
- Completed Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore. as Co-Investigator. The topic of project is "Financial Autonomy for Unemployed and Disadvantaged Adolescents with Disabilities through Punjab Vocation Training Institutions"

Research Work

Approved Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore. as Principal Investigator. The topic of project is "An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab".

*Paper Presented*

- Approved Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore. as Principal Investigator. The topic of project is “An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab”.
- Approved Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore, as Co-Investigator. The topic of project is “An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab”.
- Approved Research Project 2017-2018 by Research Project Committee, University of the Punjab, Lahore, as Co-Investigator. The topic of project is “Financial Autonomy for Unemployed and Disadvantaged Adolescents with Disabilities through Punjab Vocation Training Institutions”

Dr. Rukhsana Bashir (Research and Publication)*Name of Research /Technical Projects*

- Worked on Research Project 2017-2018 approved by Research Project Committee, University of the Punjab, Lahore. as Principal Investigator. The topic of project is “An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab”.
- Worked on Research Project 2017-2018 approved by Research Project Committee, University of the Punjab, Lahore. as Co-Investigator. The topic of project is “An Violence Experienced by Girls with Hearing Impairment in the Schools and its Impact on their Personality, Health and School Performance”.
- Worked on Research Project 2017-2018 approved by Research Project Committee, University of the Punjab, Lahore. as Co-Investigator. The topic of project is “Financial Autonomy for Unemployed and Disadvantaged Adolescents with Disabilities through Punjab Vocation Training Institutions”

International Conference – Paper Presented

- Presented a paper on “An Empirical Study on Satisfaction of Students with visual Impairment in Inclusive school setting of Punjab” in 1st International conference on Research in Special Education with theme Addressing Diversity through Education on April 24-26, 2018 organized by Department of Special Education University of the Punjab-Lahore.
- Presented a paper on “A Study of Factors Affecting Quality of Special Education for the Students with Hearing Impairment at Primary Level” in 1st International conference on Research in Special Education with theme Addressing Diversity through Education on April 24-26, 2018 organized by Department of Special Education University of the Punjab-Lahore.
- Presented a paper on “Early Reading Skills in Children with Hearing Impairment by using Visual Phonic Approach in Urdu” in 1st International conference on Research in Special Education with theme Addressing Diversity through Education on April 24-26, 2018 organized by Department of Special Education, University of the Punjab-Lahore.



- Presented a paper on “Role of School in Developing Moral Values among Hearing Impaired Students” in 1st International conference on Research in Special Education with theme Addressing Diversity through Education on April 24-26, 2018 organized by Department of Special Education University of the Punjab-Lahore.
- Presented a paper on “Status of moral values among high school students with sensory disabilities: Perspective of special education teacher” in International Conference on Research and Practice in Education from February 16-17, 2018 organized by Allama Iqbal Open University, Islamabad, Pakistan.
- Presented a paper as principal author on “A study of rural inclusive education program of students with special needs in Punjab” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as co-author on “Review of early childhood special education curriculum for young children with deafness” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as co-author on “Inclusion of children with visual impairment in the regular schools of the Punjab” in International Conference: The Eight Pacific Rim Conference on Education from November 4 - 5, 2017 in Kaderu 2.7, Sapporo, Japan organized by Hakkaido University of Education, Japan.
- Presented a paper as principal author on “Status of Sign Language Interpretation at Higher Education: Perspective of students with hearing impairment” in International Conference on Inclusive Education with theme ‘Accommodating diversity: Creating Enabling Education Environment from October, 24-25, 2017 organized by University of Management & Technology, Lahore, Pakistan.
- Presented a paper as co-author on “Experiences of students with visual impairment studying in inclusive schools of Punjab province” in International Conference on Inclusive Education with theme ‘Accommodating diversity: Creating Enabling Education Environment from October, 24-25, 2017 organized by University of Management & Technology, Lahore, Pakistan.

Dr. Ghulam Fatima (Research and Publication)

Project

- Worked on a research project as principal investigator titled “Financial Autonomy for Unemployed and Disadvantaged Adolescents with Disabilities through Punjab Vocational Training Institutions” approved by the University of the Punjab for the fiscal year 2017-18.
- Worked on Research Project 2017-2018 approved by Research Project Committee, University of the Punjab, Lahore as Co-Investigator. The topic of project is “An Evaluation of Rural Inclusive Education Program of Students with Special Needs in Punjab.”



- Worked on Research Project 2017-2018 approved by Research Project Committee, University of the Punjab, Lahore as Co-Investigator. The topic of project is “Violence Experienced by Girls with Hearing Impairment in the Schools and its Impact on their Personality, Health and School Performance.”

International Conferences Attended and Paper Presented

- Presented a paper on “ Problems faced by students conducting research at university level in data collection” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “Problems faced by visually impaired girls in the acquisition of home management skills” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “Motivation factors behind the progress of educated persons with visual impairment” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “ Problems faced by male and female employees with disabilities during their job in the institutes of Punjab” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “Awareness of underprivileged students with disabilities about demand driven skill training in Punjab” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “ Level of expertise in educated young girls in managing their homes in Punjab: A quantitative exploration” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “Bullying among students with disabilities: A case of government special education schools in Punjab” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “ Challenges faced by educated persons with visual impairment at their work places in Pakistan” in International Conference on Research in Special Education with theme “*Addressing Diversity through Education*” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.



- Presented a paper on “Effects of teachers’ career commitment on students’ achievement” in International Conference on Research in Special Education with theme “Addressing Diversity through Education” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper on “ Role of schools in developing moral values among hearing impaired students” in International Conference on Research in Special Education with theme “Addressing Diversity through Education” held on March 24-26, 2018 organized by Department of Special Education, University of the Punjab, Lahore-Pakistan.
- Presented a paper as principal author titled “ Provision of Early Childhood Special Education Curriculum for Young Children with Deafness: A Quantitative Investigation” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.
- Presented a paper as coauthor titled “Inclusion of Children with Visual Impairment in the Regular Schools of the Punjab” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.
- Presented a paper as coauthor titled “Use of ICT and Students’ Personal and Social Development at Higher Education Level” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.
- Presented a paper as coauthor titled “A study of rural inclusive education program of students with special needs in Punjab” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.
- Presented a paper titled “Effect of Socio Economic Status on Students’ Motivation to learn Mathematics at Secondary Level in Punjab” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.
- Presented a paper titled “ E-learning Resources and Task Engagement of Students at University Level” in Eighth Pacific Rim Conference on Education held on November 4-5, 2017 organized by Hokkaido University of Education, Sapporo, Hokkaido, Japan.

Dr. Munawar Ahmed Malik (Research and Publication)

Published Papers

- “Communication Abilities as a Correlate of Academic Achievement”, Published in JRCRS. 2017 5(2): 76-78.
- “Parental and professional attitudes towards auditory training in the development of auditory perception”, published in Pakistan Journal of Special Education, PJSE- Vol: 18
- ALIF- a strategy for reading and writing development for students with hearing impairment, published in Pakistan journal of special education, PJSE: 17.



Presented in Conferences

- “Effect of phonological awareness treatment plan on reading skills of hearing aid and cochlear implant users”, in ICRPE 2018, AIOU, Islamabad. 17-02-18
- “Efficacy Of Computer-Based Phonological Intervention For Students With Hearing Impairment” in ICORE 2018, University of the Punjab, Lahore
- “Incidence of Depression among Students with Physical Impairments at Secondary Schools”, Presented in International Conference on Innovation & Emerging Trends in Business Management, Education and Social Sciences, 8-9 January, 2018. ISBN: 978-969-7667-00-3
- “Challenges faced by Teachers in Handling Issues of Students with Physical Disabilities” Presented in International Conference on Innovation & Emerging Trends in Business Management, Education and Social Sciences, 8-9 January, 2018. ISBN: 978-969-7667-00-3
- Organized First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, 2018 as Coordinator of the Conference, at Department of Special Education, University of the Punjab.
- “The Perception of Increased Terrorism on Children with Special Needs”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “A Correlative Study between Depression and Academic Achievement of the Students with Physical Challenges”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Job Satisfaction of Teachers Serving at Schools for the Physically Challenged”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Teachers awareness about Policies and Protocols in Handling Students with Physical Disabilities”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “A Correlative Study between Depression and Academic Achievement of the Students with Physical Challenges, studying in informal System of Education”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Estimation of Resonance in Individuals with Repaired Cleft Palate by using Temple Street Scale”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Relationship between Socioeconomic Status and Academic Achievement of Students with Physical Disability”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.



- “Common Sensory Intervention Therapies in Schools”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Factors Effecting the Motivation of Students with Hearing Impairment”, presented at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Disability – Attitude Matter”, poster presentation at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.
- “Accessibility Issues in University of the Punjab”, poster presentation at First International Conference on Research in Special Education, ICRSE-2018 on April 24-26th, at Department of Special Education, University of the Punjab.

Dr. Maria Sohaib Qureshi (Research and Publication)

Publications: *Article published on*

Utilization of ICT by Students with Visual Impairment” in Journal of Inclusive Education. Vol.1, 2017: ISSN-8999. Alama Iqbal Open University, Islamabad.

Papers Presentations in International Conferences

- Presented a paper on “Effective Use of Information and Communication Technology by the Teachers at Primary Schools; a Descriptive Study” in International Conference on Research in Special Education with theme ‘Addressing Diversity through Education, from 24th to 26th April 2018 organized by University of the Punjab, Lahore, Pakistan.
- Presented a paper on “Perception of Graduate Students with Hearing Impairment about the Worth of Education” in International Conference on Research in Special Education with theme ‘Addressing Diversity through Education, from 24th to 26th April 2018 organized by University of the Punjab, Lahore, Pakistan.
- Presented a paper on “The Sensory Issues Among Boys with Autism Spectrum Disorders Living in the Lahore City” in International Conference on Research in Special Education with theme ‘Addressing Diversity through Education, from 24th to 26th April 2018 organized by University of the Punjab, Lahore, Pakistan.
- Presented a paper on “Common Sensory Intervention Therapies used in Schools” in International Conference on Research in Special Education with theme ‘Addressing Diversity through Education, from 24th to 26th April 2018 organized by University of the Punjab, Lahore, Pakistan.
- Participated in pilot testing workshop of Master Trainer Faculty Professional Development Program from 2nd July to 14th July, 2018 organized by Learning Innovation division, Higher Education Commission, Islamabad.

○ RESEARCH COLLABORATION

Indigenous: University of the Punjab



INSTITUTE OF EDUCATION & RESEARCH

▪ **Projects:** Completed

Research Projects Sponsored by National and International Agencies

| Name of Researcher /Sponsoring Agency | Title of Research Project | Status |
|---------------------------------------|--|-----------|
| University of the Punjab | Dr. Mumtaz Akhter Professor | Completed |
| University of the Punjab | Dr. Tariq Hussain Assistant Professor | Completed |

▪ **Projects:** Newly launched

| Name of Researcher /Sponsoring Agency | Title of Research Project | Status |
|---------------------------------------|---|-------------|
| University of the Punjab | Dr. Muhammad Saeed Associate Professor | In progress |
| University of the Punjab | Dr. Muhammad Shahid Farooq Associate Professor | In progress |
| University of the Punjab | Dr. Munaza Nausheen Assistant Professor | In progress |
| University of the Punjab | Dr. Effat Alvi Assistant Professor | In progress |
| University of the Punjab | Dr. Tariq Mahmood Ch. Assistant Professor | In progress |

○ **Publications**

| Sr. No. | Name of Author | Title of Paper/Article |
|---------|-----------------------|---|
| 1 | Dr. Rafaqat Ali Akbar | Effectiveness of Problem Solving Method in Teaching Mathematics at Elementary Level. Bulletin of Education and Research 40 (1). |
| 2 | Dr. Rafaqat Ali Akbar | Validation of the Higher Education Commission's Quality Assurance Indicators Used for Self-Assessment Mechanism at Universities in Punjab Province. Bulletin of Education and Research 39 (3). |
| 3 | Dr. Rafaqat Ali Akbar | Analysis of Socio-Economic Benefits of Education in Developing Countries: A Example of Pakistan. Bulletin of Education and Research 39 (3). |
| 4 | Dr. Rafaqat Ali Akbar | Comparison of Teaching Practices in English Writing Classrooms of Secondary School Certificate and General Certificate of Education Ordinary Level Journal of Educational Research, Dept. of Education, IUB, Pakistan (Vol. 20 No. 2) 2017. |



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| 5 | Dr. Mumtaz Akhter | Evaluating Information Skill in Secondary School Students as a Contributor in Competency Based Education. Bulletin of Education and Research 40(1). |
| 6 | Dr. Mumtaz Akhter | Assessing Home Economics College Students' Behaviour towards Sustainable Development. Bulletin of Education and Research 40(2). |
| 7 | Dr. Mumtaz Akhter | Causal Attribution Beliefs of Success and Failure: A Perspective from Pakistan Bulletin of Education and Research 39 (3). |
| 8 | Dr. Abid Hussain Ch. | Principals' Leadership Styles and Teachers' Job Satisfaction: A Correlation Study at Secondary Level, Bulletin of Education and Research 39 (3). |
| 9 | Dr. Abid Hussain Ch. | Head Teacher as an Instructional Leader in School. Bulletin of Education and Research 40 (1). |
| 10 | Dr. Rizwan Akram Rana | Effect of Jigsaw vs. Traditional Group Work on 8 th Graders' Basic Science Process Skills Achievement in Laboratory. Pakistan Journal of Education, Vol 34, No 2 (2017) |
| 11 | Dr. Muhammad Saeed | Teachers' Perceptions about the Use of Classroom Assessment Techniques in Elementary and Secondary Schools. Bulletin of Education and Research 40 (1). |
| 12 | Dr. Munaza Nousheen | Gender and disciplinary differences in the future plans of post graduate students in Pakistan. International Journal of Gender Sciences & Technology Vol. 10 (2) 338-361. |
| 13 | Dr. Tariq Mehmood Ch. | A Compact Instructional Design Solves Learning Problems and Creates Learning Opportunities. Bulletin of Education and Research 39 (3). |
| 14 | Dr. Tariq Mahmood Ch. | An Investigation of Attitudes towards the Research Activities of University Teachers. Bulletin of Education and Research 40 (1). |
| 15 | Dr. Shaukat Ali Raza | Investigating the Intentions, Self-Efficacy and Motivators behind Entrepreneurial Decisions of Business Students. Bulletin of Education and Research 39 (3). |
| 16 | Dr. Mubashira Khalid, Dr. Mumtaz Akhter | Teaching Styles of Secondary School English Teachers and Learning Styles of their Students and |



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|----|--|---|
| | Dr. Aroona Hashmi | Relationship of Teaching Learning Style Match with Students' Achievement. Bulletin of Education and Research 39 (3). |
| 17 | Dr. Abdul Qayyum Ch. | Relationship between Co-curricular Activities and Exam Performance: Mediating Role of Attendance. Bulletin of Education and Research 40(1). |
| 18 | Dr. Abdul Qayyum Ch. | Impact of Gender, Qualification and Experience on Mentoring Practices in Public Sector Universities of Islamabad. Bulletin of Education and Research 39 (3). |
| 19 | Dr. Abida Nasreen | The Continuous Professional Development of School Principals: Current Practices in Pakistan. Bulletin of Education and Research 40(1). |
| 20 | Dr. Ahmed Sher Awan | Effectiveness of Science Inquiry with Six Major Instructional Tools for Diverse Learners of Middle Level in Public Schools. Journal of Elementary Education 28 (1). |
| 21 | Dr. Ahmed Sher Awan Dr. Muhammad Abiodullah | An Analysis of the Critical Thinking for Citizenship Education in the Curriculum at Secondary Level. Bulletin of Education and Research 40(1). |
| 22 | Dr. Muhammad Abiodullah | Gender Differences in Transformational Leadership Behaviors of School Principals and Teachers' Academic Effectiveness. Bulletin of Education and Research 40(1). |
| 23 | Dr. M. Abiodullah Dr. Shafiqur Rehman Mr. Muhammad Aslam | Gender, Sector and Grade Level differences in Mathematical and Cognitive Abilities of Students at Elementary Schools in Lahore. Journal of Elementary Education 27 (2). |
| 24 | Dr. Muhammad Shahid Farooq | Creating Culturally Responsive Inclusive Classrooms at Primary School Level: Prospects and Strategies. Journal of Elementary Education 28 (1). |
| 25 | Dr. Muhammad Shahid Farooq | Supporting Slow Learners' in Learning Mathematics at Primary School Level. Journal of Elementary Education 27 (2). |
| 26 | Dr. Shaukat Ali Raza | Investigating the Intentions, Self-Efficacy and Motivators behind Entrepreneurial Decision of Business Students. Bulletin of Education and Research, Volume 39 (3). |



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| 27 | Dr. Shaukat Ali Raza | Students' Evaluation of Teacher Attributes: Implications for Quality in Higher Education, Bulletin of Education and Research, Volume 40 (1). |
| 28 | Dr. Tariq Mahmood Khan | An Investigation of Attitudes towards the Research Activities of University Teachers. Bulletin of Education and Research, Volume 40 (1). |
| 29 | Dr. Muhammad Islam | The Symbolic Capital and Expanding Roles of English: A Study of L2 attitudes in a Pakistani EFL Context. Bulletin of Education and Research, Volume 40 (1). |
| 30 | Dr. Muhammad Islam | Leadership Styles of the Campus Principals and Divisional Directors in a Public University of Pakistan. Bulletin of Education and Research, Volume 40 (1). |
| 31 | Dr. Muhammad Islam | Association vs Disassociation: An Analysis of Inclusive and Exclusive Plural Personal Pronouns in the Pakistani Parliamentary Speeches Bulletin of Education and Research, Volume 40 (2). |
| 32 | Dr. Tariq Hussain, Dr. Aroona Hashmi | Prospective Teachers' Attitude towards e-learning: A Case of Pakistan. International Journal of Humanities and Social Science 8 (2). . |
| 33 | Dr. Tariq Hussain Dr. Aroona Hashmi | Attitude towards Entrepreneurship: An Exploration of Technology Education Students. Bulletin of Education and Research, 40 (1). |
| 34 | Dr. Tariq Hussain Dr. Aroona Hashmi | A Study on Public Sector Elementary School Teachers' Subject Matter Knowledge Competence in English. Journal of Elementary Education 28 (1). |
| 35 | Dr. Aroona Hashmi Dr. Tariq Hussain | Alignment between Mathematics Curriculum and Textbook of Grade VIII in Punjab. Bulletin of Education and Research, 40 (1). |
| 36 | Mrs. Farrukh Munir | Classroom Practices of Mentees and Mentoring Challenges in the Execution of Continuous Professional Development Framework. Bulletin of Education and Research 40(2). |
| 37 | Ms. Tayyaba M. Akram | Characterization and optimization of photo-catalytic activity of TiO ₂ and Ag doped TiO ₂ by degradation of synthetic textile effluent. Polish Journal of Environmental Studies. |
| 38 | Ms. Tayyaba M. Akram | Effect of different Parameters on Photo catalytic Oxidation of Slaughterhouse Wastewater by Using TiO ₂ and Silver Doped TiO ₂ nanoparticles. Polish Journal of Environmental Studies. In press. |



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| 39 | Ms. Tayyaba M. Akram | The Impact of parental enforcement. Societal demands ant text books role on students' interest towards the subject of chemistry. International Journal for Cross Disciplinary Subject in Education. Vol 9(3), 3454-3459 |
| 40 | Dr. Rizwan Akram Rana, Ms. Tayyaba M. Akram, Dr. Nighat Sana Kirmani, Mr. Asim Nazir | Perception of Secondary School students about Learning Difficulties and Misconceptions in basic concepts of Chemistry, The Turkish Online Journal Of Educational Technology (Special Issue for IETC 2017) |
| 41 | Dr. Umme Salma | Role and Effects of Social Media on family and Society. Epistemology Annual & Bi-lingual research journal for Islamic Social Sciences Vol. 5 (5). |

- **Conferences, Seminars and Workshops, etc.** (Sponsors, Oral Presentation + Poster Presentation)
 - Prof. Dr. Rafaqat Ali Akbar, participated as member Quality Assurance Agency at Higher Education Commission for review exercise (MS/Phil/Ph.D Programme) of Dadabhoy Institute of Higher Education, Karachi, scheduled on May 30th, 2018.
 - Prof. Dr. Rafaqat Ali Akbar participated in Consensus Building Forum on Teacher Education, Pakistan being organized by National Accreditation Council for Teacher Education (NACTE) and AIOU, Islamabad to be held on May 14-15, 2018.
 - Prof. Dr. Rafaqat Ali Akbar, Organized and Participated in 9th Post Graduate Students Conference 2018 on “Improving Education through Research” held on May 16, 2018.
 - Prof. Dr. Rafaqat Ali Akbar participated as keynote speaker in first “International Conference on Teaching and Learning” held on March 19-20, 2018 at Department of Education, Islamia University Bahawalpur to participate in 2nd National Conference on “Early Child Care and Education” (ECCE) on 2-3May, 2018 at Allam Iqbal Open University, Islamabad.
 - Prof. Dr. Rafaqat Ali Akbar participated as Resource Person in National Seminar on “Curriculum: Theory and Practice in Pakistan” held on March 8-9, 2018 at International Islamic University (IIU), Islamabad.
 - Prof. Dr. Rafaqat Ali Akbar participated in the meeting of the National Accreditation Council for Teacher Education (NACTE) held on February 13-14, 2018 at HEC Islamabad and Seminar on Teacher Education and Policy Debate at AIOU on 15-02-2018.
 - Prof. Dr. Rafaqat Ali Akbar participated in workshop as Resource Person organized by Khyber Pakhtunkhwa Education Sector Plan Support Programme (KP-ESPSP) on January 22-23, 2018 at Islamabad.
 - Prof. Dr. Rafaqat Ali Akbar participated as Resource Person in Workshop organized by Khyber Pakhtunkhwa Education Sector Plan Support Programme (KP-ESPSP) on December 28 & 29, 2017 at Islamabad



- Prof. Dr. Rafaqat Ali Akbar participated as Resource Person in Workshop organized by Khyber Pakhtunkhwa Education Sector Plan Support Programme on December 12 & 13, 2017 at Islamabad.
- Prof. Dr. Rafaqat Ali Akbar, Organized & participated in 5th International Conference on Research in Education (ICORE) organized by IER, University of the Punjab, Lahore from November 21-23, 2017.
- Prof. Dr. Rafaqat Ali Akbar participated in National Conference on Education and Sustainable Development (NCESD) held on October 03-04, 2017 at Department of Education, National University of Modern Languages (NUML), Islamabad.
- Prof. Dr. Mumtaz Akhter, organized & participated in 1st International Conference on Research “Addressing Diversity Through Education” Dept. of Special Education, University of the Punjab in collaboration with HEC, PHEC & Punjab Welfare Trust at Dept. of Special Education, University of the Punjab, Lahore on April 24-26, 2018.
- Prof. Dr. Mumtaz Akhter, participated International Conference on Quranic Life Style. Organized by Dept. of Islamic Learning University of Karachi and Dept. of Research Al Mustafa International University Pakistan Chapter at Auditorium of HEJ Research Institute, University of Karachi, Karachi on April 11-12, 2018.
- Prof. Dr. Mumtaz Akhter, participated in International Conference on “Professional Development (PD) in Higher Education, organized by HEC and Fatima Jinnah Women University, Rawalpindi at HED Auditorium, Islamabad on March 19-20, 2018.
- Prof. Dr. Mumtaz Akhter, Organized & participated in 5th International Conference on Research in Education (ICORE) organized by IER, University of the Punjab, Lahore from November 21-23, 2017.
- Prof. Dr. Mumtaz Akhter, participated in One day Workshop on “Addictive Behavior in Global Perspective” Organized by Centre for Clinical Psychology, University of the Punjab, Lahore on November 14, 2017
- Prof. Dr. Mumtaz Akhter, participated in Conference on Trends and Prospects in Molecular Biosciences, organized by Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore on October 23, 2017
- Prof. Dr. Abid Hussain Ch., Organized & participated in 5th International Conference on Research in Education (ICORE) organized by IER, University of the Punjab, Lahore from November 21-23, 2017.
- Prof. Dr. Abid Hussain Ch. participated and presented paper entitled “Use of ICT and Students’ Personal and Social Development at Higher Education Level” in The 8th Pacific Rim Conference on Education” organized by Hokkaido University of Education, Japan hold on November 04-05, 2017.
- Prof. Dr. Rizwan Akram Rana, Organized & participated in 5th International Conference on Research in Education (ICORE) being organized by IER, University of the Punjab, Lahore from November 21-23, 2017.



- Dr. Muhammad Saeed, participated in 5th International Conference on Research in Education (ICORE) organized by IER, University of the Punjab, Lahore from November 21-23, 2017.
- Dr. Muhammad Saeed, Participated in 9th Post Graduate Students Conference 2018 on “Improving Education through Research” held on May 16, 2018 at Waheed Shaheed Hall, IER.
- Dr. Tariq Hussain, participated in 5th International Conference on Research in Education (ICORE) organized by IER, University of the Punjab, Lahore from November 21-23, 2018.
- Dr. Tariq Hussain, Participated in 9th Post Graduate Students Conference 2018 on “Improving Education through Research” held on May 16, 2018 at Waheed Shaheed Hall, IER.
- Dr. Aroona Hashmi, participated in 5th International Conference on Research in Education (ICORE) being organized by IER, University of the Punjab, Lahore from November 21-23, 2017.
- Dr. Aroona Hashmi, participated and presented paper titled “Economic Recession and Psychological Effects on Youth in Pakistan” in London International Conference on Education (LICE-2017) being organized by University of Cambridge, UK on December 11-14, 2017.
- Dr. Abida Nasreen, attended conference as a member of the organizing committee in the "5th international conference on Research in Education (ICORE 2017)" held on November 21-23, 2017 at Institute of Education and Research, University of the Punjab, Lahore.
- Dr. Shaukat Ali Raza participated in International Conference on Management Research (ICMR) and chaired a session being organized by Superior University Lahore November 09-10, 2017.
- Dr. Shaukat Ali Raza, participated in 5th International Conference on Research in Education (ICORE) being organized by IER, University of the Punjab, Lahore from November 21-23, 2018.
- Dr. Ahmad Sher Awan, participated and presented paper entitled “Accommodating Diverse Learners through Inquiry Along with Six Major Principles at Elementary Level” in 5th International Conference on Education and Social Sciences to be held on February 05-07, 2018 in Istanbul Turkey.
- Ms. Tayyaba M. Akram, participated and presented paper entitled "Perception of University Students towards the Role of Social Networking Sites in their Academics" at the London International Conference on Education, University of Cambridge, UK December 11-14, 2017.
- Ms. Tayyaba M. Akram, participated and presented paper entitled, “Effect of Concept Mapping on 9th grade General Science Students”, in 5th International Conference on Research in Education-ICORE 2017, organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 21-23, 2017.
- Ms. Tayyaba M. Akram, participated and presented paper entitled, “Relationship of Science Students’ Self Regulation and Fluid Intelligence at Undergraduate Level”, in the 5th International Conference on Research in Education-ICORE 2017, organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 21-23, 2017.



○ **Conferences/Workshops/Seminars Organized by IER**

- “5th International Conference on Research in Education (ICORE 17), on November 21-23, 2017. Seven hundred researchers, teachers, educators, teachers’ practitioners, social scientist, students and professionals from Pakistan & around the world participated in the Conference. They made their presentation and shared research based knowledge, experiences new advancements, empirical results and innovations in the field of education. ICORE organizing committee received 430 research papers from National and International researchers which were peer reviewed and more the three hundred and fifty papers were accepted for presentation.
- 9th Post Graduate Students Conference 2018 entitled “Improving Education through Research” on 16 May, 2018. Prof. Dr. Nasira Jabeen, Vice-Chancellor, University of the Punjab was the Chief Guest of the opening ceremony.
- Students Affairs Committee, IER organized and hosted road safety Seminar on 9th January 2018 in collaboration with National Highway and Motorway Police at Faisal Auditorium, IER, University of the Punjab, Lahore
- Students Affairs Committee, IER organized and Hosted a Seminar on Child Abuse –Role of Teacher Education institutions 19th Jan. 2018 in collaboration of Punjab Government. The worthy Vice-Chancellor, Prof. Dr. Zakira Zakar was the Chief Guest.
- Student Affairs Committee, IER organized Annual Dinner and Mushaira on 20-12-2017 in Faisal Auditorium.
- Students Affairs Committee, IER organized Speech Competition titled “Dehr Mein Ism e Muhammad Se Ujala Kar Day” on February 13, 2018 at IER.
- Student Affairs Committee, IER organized Seminar titled “Awareness Session on E-Rozgaar” in collaboration with Punjab Information Technology Board (PITB), Government of the Punjab on February 15, 2018.
- Students Affairs Committee, IER organized a program titled “Ik Sham Saad Ullah Shah k Nam” a known poet of the country on April 20, 2018 at IER.
- Students Affairs Committee, IER organized 2nd all Pakistan Co-Curricular Competition in April, 2018 in Collaboration with HEC, PHEC and NAB.

○ **Research Journals**

- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 39, No. 3, 2017.
- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 40, No. 1, 2018.
- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 40, No. 2, 2018.
- Journal of Elementary Education, Institute of Education and Research, University of the Punjab Lahore Volume 27 No 2, 2017.



- Journal of Elementary Education, Institute of Education and Research, University of the Punjab Lahore Volume 28 No 1, 2018.
- Pakistan Journal of Educational Research and Evaluation (PJERE), Institute of Education and Research, University of the Punjab Lahore Volume 3, No.2, 2017.
- Pakistan Journal of Educational Research and Evaluation (PJERE), Institute of Education and Research, University of the Punjab Lahore Volume 4, No.1, 2018.

RESEARCH COLLABORATION

○ **Foreign Linkages**

International Linkage with Beijing Normal University, China

Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

○ **R&D-An Overview**

The Centre was established in 2003 to provide trained manpower for utilization of huge coal deposits available in Pakistan in order to achieve self-reliance in the energy sector. Research activities remain continued throughout the year by mutual coordination of the faculty and students, which are particularly aimed at exploring the technology for effective utilization of coal resources. Hundred of students have completed their research thesis under the supervision of senior faculty members. For capacity building, a new PC-1 of Rs. 984 Million aiming at transformation of the Centre into Institute of Energy and Environmental Engineering has been approved and underway.

○ **Publications**

- Akhtar, J. Yaseen, A. Munir, S.; (2018): Effect of rice husk co-combustion with coal on gaseous emissions and combustion efficiency. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 40, 1010-1018.
- Shahzad, K. Choi, J. H. Ahmad, I. Memon, S. A. Ghauri, M. Rafiq, S. Jaffery, M. H. Doggar, M. G.; (2018). Correlation for predicting solid holdup in the circulating fluidized beds riser. Journal of Engineering Technology, 6, 283-292
- Haider, R. Guo, H. Wang, Q. Urynowicz, M. A. Fallgren, P. Jin, S. Huang, Z.; (2018): Microbial Communities Involved in Methane. Aspects in mining and mineral science, 1, 1-5
- Haider, R. Ghauri, M. A. Rahim, M. U.; (2018): On comparison between fungal and bacterial pretreatment of coal for enhanced biogenic methane generation. Geomicrobiology Journal, 35, 432-437
- Haider, R. Sana, H. Rahim, M. U. Munir, S.; (2018): Effect of complexing agents on desulphurization and deashing of coal by H₂O₂/H₂SO₄ leaching. Energy & Environment, 1-13
- Munir, S. Mushtaq, S. Awan, J. A. Javaid, A.; (2018): Co-pyrolysis and hydrogenation of Thar coal, waste plastic and waste oil blends for fuel oil production. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 40, 1604-1612.



- Kim, C. Kim, K. Kim, J. Han, C. Ahmed, U.; (2018): Practical deployment of pipelines for the CCS network in critical conditions using MINLP modelling and optimization: A case study of South Korea. International Journal of Greenhouse Gas Control, 73, 79-94

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

○ **Research & Development**

Research and Development is the backbone of our department. No institute can groom without working in R&D. The department continues to enjoy significant growth and momentum in its research productivity. Faculty submitted approximately eight proposals, more than ten active grants are in progress and 19 international research paper have been published. These encouraging research trends reflect active involvement of an increasing number of engineering faculty members in research, demonstrate the caliber of our faculty members and the success of our strategically focused interdisciplinary research model.

○ **Projects: Completed**

| Sr. No | Project Name | Duration | Sponsoring agency | Funding (Mill Rs) |
|--------|--|----------|---------------------------|-------------------|
| 1 | Extension and Strengthening of Department of Polymer and Textile Engineering & Technology Under Modernization & Up-Lifting of Selected Departments of the Punjab (Phase-1)PSDP 2018-2019 | 3 Years | HEC & planning Commission | 715.12 |
| 2 | Grant for Repair and Maintenance of Equipment | 1 year | HEC | App10.5 Mill Rs |

Projects: In progress

| Sr. No | Project Name | Duration | Sponsoring agency | Funding (Mill Rs) |
|--------|--|----------|---|-------------------|
| 1 | Research Collaboration between Pakistan and the United States on the Development of Innovative Technical Textiles and Medical Textile Products Under Pakistan and United States Science and Technology Cooperation Program 2014 North Carolina (NC) State University Raleigh USA | 3 years | Funding Agency Pakistan Side: Higher Education Commission (HEC), Government of Pakistan Funding Agency USA Side: National Academy of Sciences (NAS) USA | |
| 2 | Hollow fiber membrane reactor for water treatment | 2 Years | TWAS-COMSTECH | 3000.00 US \$ |



○ **Publications:** Books/Edited

Published Chapters

- Nafisa Gull, Shahzad Maqsood Khan, Atif Islam, Muhammad Taqi Zahid Butt, Tahir Jamil Chapter: 'Modification of Polyaniline'; Book: "Polyaniline Blends, Composites, and Nanocomposites", Edited By: P. M. Visakh, Cristina Della Pina, Ermelinda Falletta; Published by Elsevier, ISBN: 978-0-12-809551-5 (<https://www.elsevier.com/books-and-journals>); Published: Hard Cover ISBN 9780128095515 Elsevier. (Published) 2018
- Muhammad Munawar, Dirk Wolfram Schubert, Shahzad Maqsood Khan, Nafisa Gull, Atif Islam, Muhammad Atiq Ur Rehman and Monika M Voigt; Chapter: "Particulate Filled Polyester Hybrid Composites" Book: "Polyester - Production, Characterization and Innovative Applications"; Edited by: Nurhan Onar Camlibel; ISBN 978-953-51-5876-9 In Tech Publications. (Published) 2018
- Maria Wasim, Aneela Sabir, Muhammad Shafiq, Atif Islam, Tahir Jamil; Modification of Polysulphone membrane via Layer by Layer Assembly; ISBN-13: 978-3-330-03025-1, ISBN-10: 3330030259, EAN: 9783330030251, LAP LAMBERT Academic Publishing, Omni Scriptum Ara Pers GmbH, Germany.

Chapters Under Review

- Nafisa Gull, Shahzad Maqsood Khan, Atif Islam, Muhammad Taqi Zahid Butt. Book title "Bio Monomers for Green Polymeric Composite Materials" Chapter title "Constituents, Fabrication, Crosslinking and Clinical Applications of Hydrogels" John Wiley & Sons, Ltd (submitted)
- Shahzad Maqsood Khan, Nafisa Gull, Muhammad Taqi Zahid Butt. Book title "Polyvinylchloride (PVC) based blends: Preparation, Characterization and Applications" Chapter title "Polyvinylchloride (PVC): Structure and Properties Relationship" Springer Germany (submitted)

○ **Conferences, Seminars, and workshops, etc** (sponsors, oral presentation + poster presentation)

Participated & In Plan Participation

- Participated in "6th International Symposium on Biomedical Materials ISBM 2017, Synergising Partnerships" held at Interdisciplinary Research Center in Biomedical Materials, COMSATS Institute of Information Technology, Lahore, Pakistan Dec. 14-16, 2017
- Thermo-mechanical and ablation characteristics of the fine cork impregnated ablative composites, International Conference of Solid State Physics (2017). Sadia Sagar Iqbal, Shahzad Maqsood Khan, Adnan Ahmad, Muhammad Adrees, Muhammad Arshad Bashir, Muhammad Taqi Zahid Butt. Centre of Excellence in Solid State Physics, University of the Punjab, QAC, Lahore-54590, Pakistan (Invited Speaker, Oral presentation).
- Invited Lecture in International Conference on Solid State Physics (ICSSP-2017) title "Polymers; An Exclusive Trademark to Modern Era", Shahzad Khan, Saba Zia, Nafisa Gull, Atif Islam, Sadia Sagar Iqbal, Muhammad Shafiq, Aneela Sabir, Adnan Ahmad, Fahd Jamshaid, Muhammad Taqi Butt in University of the Punjab Lahore Pakistan



- 4th International Conference on Frontiers of advanced engineering materials (FAEM-18) Lahore, Pakistan. Study of Release Profile of Montelukast Sodium by Cross linked Injectable Hydrogels. Sadaf Hafeez, Atif Islam, Kalsoom Anwar, Muhammad Shafiq, Shahzad Maqsood Khan, Abbas Ali, Aneela Sabir, Nafisa Gull, Saba Zia, Saba Urooge, Sehrish Jabeen, Taqi Zahid Butt
- Preparation and characterization of polyurethane-grafted calcium alginate membranes. Saba Urooge, Shahzad Maqsood, Atif Islam, Sadaf Hafeez, Misbah Sultan, Muhammad Shafiq, Sadia Sagar, Azeem Munawar, Aneela Sabir, Nafisa Gull, Saba Zia, Khadija Rafiq, Shumaila Fayyaz, Muhammad Taqi Zahid Butt.

Posters Presented

- An Investigation of Rheological Behaviour of Lubricating Oils Used for Motor Bike Engines. Shahzad Maqsood Khan, Saba Zia, Saira Bano, Nafisa Gull, Atif Islam, Sadia Sagar Iqbal, Muhammad Abid, Sehrish Jabeen, Muhammad Taqi Zahid Butt, Tahir Jamil. "15th International Symposium on Advanced Materials (ISAM-2017)" National Centre for Physics, Islamabad, Pakistan. Oct. 16-20th 2017
- Tuning of thermomechanical performance: Modified multiwalled carbon nanotubes reinforced SBR/NBR/SR nanocomposites. Sadia Sagar Iqbal, Muhammad Adrees, Adnan Ahmad, Muhammad Shafiq, Muhammad Yasir, Fahad Jamshad, Tahir Jamil, M. B. Khan. 15th International Symposium on Advanced Materials (ISAM-2018), Islamabad, Pakistan (Poster Presentation, under review IF 0.219) (2018). Oct. 16-20th 2017
- Fahd Jamshaid, Sadia Sagar Iqbal, Adnan Ahmad, Muhammad Adrees, Tahir Jamil, Improving the mechanical and thermal properties of phenolformaldehyde nanocomposites by incorporating 3-aminopropyltrimethoxysilane functionalized graphene oxide nanosheets, 15th International Symposium on Advanced Materials (ISAM-2018), Islamabad, Pakistan. Oct. 16-20th 2017
- Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Proconcentration of Pesticides in Drinking Water. Sadia Atta, Mehreen Fatima, Atif Islam, Nafisa Gull, Misbah Sultan. "15th International Symposium on Advanced Materials (ISAM-2017)" National Centre for Physics, Islamabad, Pakistan. Oct. 16-20, 2017
- Hydrothermal Synthesis of ZnO Nanorods and its Application for Eradication of Pb (II) ions. Sadia Atta, Aneela Tabassum, Muhammad Imran Din, Atif Islam, Misbah Sultan, Muhammad Faroz, Abdul Ahad, Nafisa Gull. "15th International Symposium on Advanced Materials (ISAM-2017)" National Centre for Physics, Islamabad, Pakistan. Oct. 16-20, 2017
- Development of cellulose acetate/polyethylene glycol membrane for Dialysis. Saba Urooge Khan, Hina Saleem, Shahzad Maqsood Khan, Qamar Bashir, Khadija Rafiq, Sadia Sagar Iqbal, Aneela Sabir, Sehrish Jabeen, Nafisa Gull, Muhammad Taqi Zahid Butt. "International Conference on Solid State physics (ICSSP'17)" Won Third Prize in Poster Competition held in Centre of Solid State Physics, University of the Punjab, Lahore, Pakistan. Dec. 10-14th 2017



- Synthesis and Characterization of Amphiphilic Triblock Polyurethane Copolymers Membrane for Reverse Osmosis. Saba Urooge Khan, Sadaf Hafeez, Shahzad Maqsood Khan, Atif Islam, Misbah Sultan, Muhammad Shafiq, Nafisa Gull, Saba Zia, Muhammad Taqi Zahid Butt. "International Conference on Solid State physics (ICSSP'17)" held in Centre of Solid State Physics, University of the Punjab, Lahore, Pakistan. Dec. 10-14th 2017
- Synergistic Effect of Calcium Ion on Structural, Thermal and Dielectric Properties of Chromium Magnesium Nanoferrites. Mehwish Jabeen, Sahar Sarwar, Sadia Sagar Iqbal, Sumera Nosheen, Atif Islam, Faiza Hassan, Shahzad Maqsood Khan, Muhammad Yasir. International Conference on Solid State Physics (ICSSP-2017) Dec 10-14th, 2017
- Synthesis and Characterization of Polysaccharide based Hydrogels. Nafisa Gull, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Saba Zia, Saba Urooge Khan, Sadaf Hafeez, Sehrish Jabeen, Adnan Ahmad, Fahd Jamshaid, Muhammad Azeem Munawar, Atif Islam, Aneela Sabir, Sadia Sagar Iqbal, Muhammad Shafiq. "4th International Conference on Frontier of Advanced Engineering Materials (FAEM)" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th, 2018
- Development of Biopolymers based food Packaging Material. Asma Khalid, Sadia Atta, Atif Islam, Sehrish Jabeen, Huma Raza, Mahpara Alam, Shumaila Fayyaz, Muhammad Faizan, Muhammad Toqeer Hussan shah, Waqar Ahmad, Shahzad Maqsood Khan, Makshoof Athar. "4th International Conference on Frontier of Advanced Engineering Materials (FAEM)" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th, 2018
- Preparation and Characterization of Polyurethane Grafted Calcium Alginate Membranes. Saba Urooge Khan, Shahzad Maqsood Khan, Atif Islam, Sadaf Hafeez, Misbah Sultan, Muhammad Shafiq, Sadia Sagar Iqbal, Muhammad Azeem Munawar, Aneela Sabir, Nafisa Gull, Saba Zia, Khadija Rafiq, Shumaila Fayyaz, Muhammad Taqi Zahid Butt. "4th International Conference on Frontier of Advanced Engineering Materials (FAEM)" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th, 2018
- Hydrophilic Gels for Biomedical Applications. Saba Zia, Shahzad Maqsood Khan, Nafisa Gull, Atif Islam, Younas Habeeb Khan, Muhammad Azeem Munawar, Muhammad Shafiq, Aneela Sabir, Saba Urooge Khan, Sadaf Hafeez, Sehrish Jabeen, Muhammad Taqi Zahid Butt. "4th International Conference on Frontier of Advanced Engineering Materials (FAEM)" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th, 2018
- Study of Biopolymer based pH Responsive Hydrogels for Controlled Release of Antibiotic. Sehrish Jabeen, Atif Islam, Aneela Sabir, Nafisa Gull, Saba Zia, Attia Butt, Muhammad Shafiq, Adnan Ahmad, Fahd Jamshaid, Muhammad Azeem Munawar, Saba Urooge Khan, Sadaf Hafeez, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt. "4th International Conference on Frontier of Advanced Engineering Materials (FAEM)" held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th 2018



- Study of Release Profile of Montelukast Sodium by Cross linked Injectable Hydrogels. Sadaf Hafeez, Atif Islam, Kalsoom Anwar, Muhammad Shafiq, Shahzad Maqsood Khan, Abbas Ali, Aneela Sabir, Nafisa Gull, Saba Zia, Saba Urooge Khan, Sehrish Jabeen, Muhammad Taqi Zahid Butt. “4th International Conference on Frontier of Advanced Engineering Materials (FAEM)” held in Pakistan Council of Scientific and Industrial Research Laboratories Complex, Lahore. Feb. 19-20th, 2018
- Nafisa Gull, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt, Atif Islam, Muhammad Shafiq. Development of Hybrid Hydrogel for Biomedical Applications. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Super Absorbing Hydrogels. Saba Zia, Shahzad Maqsood Khan, Atif Islam, Aneela Sabir, Radhika Vaid, Tushar Bambharoliya, Martin W. King, Muhammad Taqi Zahid Butt. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Synthesis of Biopolymer based Crosslinked Biodegradable Thin Films for Packaging Application using Mint and Grapefruit Peel Extracts. Sehrish Jabeen, Anbreen Bashir, Asma Khalid, Atif Islam, Shahzad Maqsood Khan, Muhammad Taqi Zahid Butt. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Study of Self Assembled Amphipathic Novel Polyurethane Membranes for Water Treatment. Saba urooge Khan, Sadaf Hafeez, Azeem Munawar, Shahzad Maqsood Khan, Atif Islam, Shahzad Maqsood Khan, Muhammad Shafiq, Muhammad Taqi Zahid Butt. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Auxetic Sandwich Composites for Crash Protection. Muhammad Ameer, Shahzad Maqsood Khan, Atif Islam. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Characterization of Polyvinyl Alcohol (PVA) and Cellulose Acetate based Films and Their Evaluation for Wound Dressing Applications. Radhika Vaid, Tushar Bambharoliya, Saba Zia, Aneela Sabir, Atif Islam, Tahir Jamil, Shahzad Maqsood Khan, Martin W. King. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Novel Crosslinked Ultrafiltration Membranes for Chromium Ion Removal. Hira Zaheer, Atif Islam, Adnan Ahmad, Aneela Sabir, Fahd Jamshaid, Shahzad Maqsood Khan. “7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- Polyurethane and Cellulose Acetate Mixed Matrix Membrane for Chromium (IV) Removal from Waste Water. Adnan Ahmad, Aneela Sabir, Sadia Sagar Iqbal, Muhammad Adrees, Fahd Jamshaid, Shahzad Maqsood Khan. “7th Invention to Innovation Summit 2018”, held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018



- The Tunable Porosity of PVDF/MWCNTs with Chitosan for Enhanced Reactive Orange 16 Dye Removal. Maria Wasim, Aneela Sabir, Sadia Sagar Iqbal, Muhammad Shafiq, Shahzad Maqsood Khan. “7th Invention to Innovation Summit 2018”, held in University of the Punjab, Lahore, Pakistan.(Best Technology Award) Mar. 7-8th, 2018
 - Multi-Scale Hybrid Glass Fiber Composites with nano and (3-Mercaptopropyl) Trimethoxysilane (MPTS) Functionalized Carbon Black Inclusions. Fahd Jamshaid, Shahzad Maqsood Khan, Adnan Ahmad, Aneela Sabir, Sadia Sagar Iqbal, Muhammad Shafiq, Atif Islam. “7th Invention to Innovation Summit 2018”, held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
 - Polyvinyl Chloride and Polyvinyl Pyrrolidone Blended Membrane for Desalination. Muhammad Faisal Shafiq, Dure Najaf Iqbal, Shahzad Maqsood Khan, Sadia Sagar Iqbal, Nafisa Gull, Dr. Atif Islam, Sehrish Jabeen. . “7th Invention to Innovation Summit 2018”, held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
 - Polyvinyl Chloride and Cellulose Acetate Blended membrane for Desalination. Nafees Ali, Dure Najaf, Shahzad Maqsood Khan, Sadia Sagar Iqbal, Nafisa Gull, Atif Islam, Sehrish Jabeen. “7th Invention to Innovation Summit 2018”, held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
 - Humaira Idrees, Aneela Sabir, Muhammad Shafiq, Nafisa Gull, Shahzad Maqsood Khan, Sehrish Jabeen. Pb (II) Removal from Waste Water using Cellulose Acetate Membrane Modified by Vinyl-triethoxysilane-graphene oxide/Gum Arabic. 7th Invention to Innovation Summit 2018” held in University of the Punjab, Lahore, Pakistan. Mar. 7-8th, 2018
- **Research Journals**
- Effect of Graphene for ablation study of Advanced Composite materials for Aerospace applications. Sadia Sagar Iqbal, Aneela Sabir, Atif Islam, Syed Zain-ul-Abdeen Bukhari, Muhammad Yasir, Arshad Bashir, Ali Bahadar, Zaffar M Khan. Key Engineering Materials, Volume 778, Page 118-125, 5 September, 2018 Publisher: Trans Tech Publication, Ltd. ISSN:1662-9795, (I.F. = 0.224) HEC Recognized Journal
 - Tuning of Thermo-Mechanical Performance Modified Multiwalled Carbon Nanotubes Reinforced SBR/NBR/SR Nanocomposites. Sadia Sagar Iqbal, Muhammad Adrees, Adnan Ahmad, Sehrish Jabeen, Muhammad Yasir, Arshad Bashir, Hafiz Muhammad Rafique, Fahad Jamshad, Waheed Gul Khan. Key Engineering Materials, volume 778, page# 71-78, 5 September, 2018, Publisher: Trans Tech. Publication, Ltd., ISSN:1662-9795, (I.F. = 0.224) HEC Recognized Journal
 - Ablation, thermal stability/transport/phase transition study of carbon nanofiber-reinforced elastomeric nanocomposites. Sadia Sagar Iqbal, Fawad Inam, Ali Bahadar, Muhammad Arshad Bashir, Faiza Hassan, Mohammad Bilal Khan, Zaffar M. Khan, Tahir Jamil. Journal of Thermal Analysis and Calorimetry, 131 (2018) 2637-2646, (I.F. =1.953).



- γ -irradiated Chitosan Based Injectable Hydrogels for Controlled Release of Drug (Montelukast Sodium). Sadaf Hafeez, Nafisa Gull, Abbas Ali, Shahzad Maqsood Khan, Saba Zia, Kalsoom Anwar, Saba khan, Tahir Jamil. International Journal of Biological Macromolecules 114 (2018) 890-897 (I.F = 3.929)
- Cellulose acetate based thin film nanocomposite reverse osmosis membrane incorporated with TiO₂ nanoparticles for improved performance. Muhammad Shafiq, Aneela Sabir, Atif Islam, Shahzad Maqsood Khan, Nafisa Gull, Syed Nadir Hussain, Muhammad Taqi Zahid Butt. Carbohydrate Polymers 186 (2018) 367-376 (I.F = 5.326)
- Investigation of functional, physical, mechanical and thermal properties of TiO₂ embedded polyester hybrid composites: A design of experiment (DoE) study. Muhammad Azeem Munawar, Mudassar Azam, Atif Islam, Muhammad Atiq Ur Rehman, Nafisa Gull, Aneela Sabir, Dirk Schubert, Bilal Haider, Monika M Voigt, Muhammad Shafiq, Shahzad Maqsood Khan, Saba Urooge Khan. Progress in Natural Science: Materials International, (2018) (Accepted) (I.F = 3.172)
- Co-concentration effect of silane with natural extract on biodegradable polymeric films for food packaging; Anbreen Bashir, Sehrish Jabeen, Nafisa Gull, Atif Islam, Misbah Sultan, Abdul Ghaffar, Shahzad Maqsood Khan, Sadia Sagar Iqbal and Tahir Jamil. International Journal of Biological Macromolecules, 106 (2018) 351-359. (I.F=3.929)
- Novel Polyurethane/Polyvinyl chloride-co-vinyl acetate crosslinked membrane for reverse osmosis (RO) Ahmad A, Jamshaid F, Adrees M, Iqbal SS, Sabir A, Riaz T, Zaheer H, Islam A, Jamil T, Desalination 420 (2017) 136–144 (I.F=6.603)
- Synthesis and characterization of doxorubicin-loaded functionalized cobalt ferrite nanoparticles and their in vitro anti-tumor activity under an AC-magnetic field, Muhammad Waheed Mushtaq, Farah Kanwal, Atif Islam, Khalil Ahmed, Zia-ul-Haq, Tahir Jamil, Muhammad Imran, Syed Mustansar Abbas, Tropical Journal of Pharmaceutical Research 16 (7) (2017) 1663-1674 (I.F=0.788).
- Exfoliated Sodium Montmorillonite Reinforced Elastomeric Nanocomposites: Ablation, Thermal Transport/Decomposition/Transitions and Mechanical Aspects, Sadia Sagar Iqbal, International Journal of Materials, Mechanics and Manufacturing (Accepted).
- Ablation, thermal stability/transport/phase transition study of carbon nanofiber-reinforced elastomeric nanocomposites, Journal of Thermal Analysis and Calorimetry, Sadia Sagar Iqbal, Fawad Inam, Ali Bahadar, Muhammad Arshad Bashir, Faiza Hassan, Muhammad Bilal Khan, Zaffar M. Khan, Tahir Jamil. 131 (2018) 2637-2646 (I.F=2.209).
- Tuning the interlaminar shear strength and thermo-mechanical properties of glass fiber composites by incorporation of (3-mercaptopropyl) trimethoxysilane functionalized carbon black, Fahd Jamshaid, Adnan Ahmad, Muhammad Adrees, Sadia Sagar Iqbal, Hira Zaheer, Tahir Jamil, Javaid Ahmad, Tousif Hussain. Iranian Polymer Journal, (2017), (I.F=1.278).



- Synergistic effect of Chitosan Zinc Oxide Hybrid Nanoparticles on Antibiofouling and Water Disinfection of Mixed Matrix Polyethersulfone nanocomposite Membranes, I Munnawar, SS Iqbal, MN Munawar, M Batool, S Tariq, N Fatima, AL Khan, AU Khan, U Nazar, T Jamil, MN Ahmad. Carbohydrate Polymers, 175 (2017) 661-670 (I.F=5.326).
- Decoration of open pore network in Polyvinylidene fluoride/MWCNTs with chitosan for the removal of Reactive Orange 16 dye. Maria Wasim, Sadia Sagar Iqbal, Aneela Sabir, Muhammad Shafiq, Tahir Jamil. Carbohydrate Polymers, 174 (2017) 474-483 (I.F: 5.326).
- The effect of Nanocrystalline cellulose/Gum Arabic conjugates in crosslinked membrane for antibacterial, chlorine resistance and boron removal performance. Saba Asim, Maria Wasim, Aneela Sabir, Muhammad Shafiq, Huma Andlib, Sania Khurram, Adnan Ahmad, Tahir Jamil. Journal of Hazardous Materials. (I.F=6.513).
- Fabrication and performance characterization of novel zinc oxide filled cross-linked PVA/PEG 600 blended membranes for CO₂/N₂ separation. Muhammad Rizwan Dilshad, Atif Islam, Aneela Sabir, Muhammad Shafiq, Muhammad Taqi Zahid Butt, Aamir Ijaz, Tahir Jamil. Journal of Industrial and Engineering Chemistry, 55 (2017) 65-73 (I.F=4.841).
- Development and performance characteristics of silane crosslinked poly(vinyl alcohol)/chitosan membranes for reverse osmosis. Muhammad Shafiq, Aneela Sabir, Shahzad Maqsood Khan, Atif Islam, Nadir Hussain, M. Taqi Zahid Butt, Tahir Jamil. Journal of Industrial and Engineering Chemistry, 48 (2017) 99-107 (I.F=4.841).
- Synthesis, characterization and antiurease activities of a novel Mannich base 1-[(4-methoxyphenyl) (2-methylidenecyclohexyl) methyl] pyrrolidine (MMP) and its complexes with Cu (II), Ni (II), Co (II) and Fe (II) ions Muhammad Liaqat, Tariq Mahmud, Abdul Hameed, Mohammad Ashraf, Muhammad Shafiq, Humna Asghar, Inorganic and Nano-Metal Chemistry(2017) (I.F=0.5)
- Cellulose acetate based thin film nanocomposite reverse osmosis membrane incorporated with TiO₂ nanoparticles for improved performance. Muhammad Shafiq, Aneela Sabir, Atif Islam, Shahzad Maqsood Khan, Nafisa Gull, Sayed Nadir Hussain, Muhammad Taqi Zahid Butt. Carbohydrate Polymers (2017)(I.F=5.326)

RESEARCH COLLABORATION

○ Indigenous

Research collaboration of department with other universities are following:

- Institute of Chemistry PU Lahore
- Government College University (GCU), Lahore
- Government College University (GCU), Faisalabad
- National University of Science and Technology (NUST), Islamabad
- Plastic Technology Centre (PTC), Karachi
- Quaid-e-Azam University, Islamabad
- Centre for Solid State Physics PU, Lahore
- Demont Montessori College of Dentistry, Lahore



- Bahaudin Zakria University (BZU), Multan
- University of Engineering & Technology (UET), Lahore

Collaboration With Polymer Manufacturing And Processing Industries

- Sports industries
- Paper and pulp industries
- Paint and Adhesive industries
- Distilleries/sugar industries
- Member Separation plants
- Rubber manufacturing industries
- Defense organizations
- University and educational institutes
- Research and Development Organizations

○ **Foreign Linkages**

Department of Polymer Engineering & Technology has worked exponentially to develop strong foreign linkages for joint research projects and exchange of students with the foreign universities. In this perspective department contacted a number of universities and professors and got positive replies for joint research working during the year 2017-18. List of professors with their names and departments is as under:

- Prof. Dr. Sanaullah. Department of Chemical Engineering University of Malaysia Sarawak UNIMAS
- Prof. Dr. Martin William King. University of North Carolina USA Textile Engineering Bio Textiles
- Dr. Azahar Awan. Chemical Engineering, Polymers, Materials Engineering and Chemistry, Lehigh University USA.
- Prof. Dr. Martin William King School of Textile Engineering, Donghua University, Shanghai, China.
- Dr. Amman Ullah. Department of Agricultural, Food & Nutritional Science University of Alberta Canada
- Dr. Shahid Qamar. James Graham Brown Cancer Center, University of Louisville, Kentucky USA.
- Shuang Ma Andersen Department of Chemical Engineering, Biotechnology and Environmental Tech University of Southern Denmark
- Prof. Gernot Krammer Technische Universitat Graz
- Dr. Azhar Awan WR Grace, Cytex and Mallard Creek polymers and The Lewis Chemical Company. USA

○ **Funding grants for R&D**

- Pakistan-United States Science and Technology Cooperation Program 2014 Program Titled "Research Collaboration between Pakistan and the United States on the Development of Innovative Technical Textiles and Medical Textile Products. Between PU and North Caroline University USA 38.496 Mill Rs. HEC-PAK-USA Joint



- Design and fabrication of hollow fiber membrane reactor for industrial wastewater treatment in Pakistan. TWAS-COMSTECH Research Grants, Fiscal Year 2018-019, 3000.00USD.
- Fabrication of Adsorptive Membrane System for the Removal of Heavy Metal Ions from Industrial Wastewater. HEC Startup Research Grant Program, Fiscal Year 2016-17, 0.50 Mill Rs.
- Fabrication and development of Polymer Matrix Membranes for the Removal of Direct Dyes from Textile Industry Wastewater. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs
- Performance of Polymeric Reverse Osmosis membranes by modification. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs
- Synthesis and Characterization of amphiphilic triblock polyurethane copolymers to mimic bio-membranes. (Project was awarded to Dept. of Polymer Engg. & Tech to Prof. Dr. Tahir Jamil. After the sad demise of Prof. Dr. Tahir Jamil the Project is in progress in Dept. of Polymer Engg. & Tech.) 10.207 Mill RS. NRPU HEC PAK
- Synthesis and characterization of polymers blends for packaging applications. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs
- Development of wound healing/dressing materials using biocompatible polymer chitosan: a natural solution for wound healing. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs
- Polymer nanocomposites as biomedical sutures. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs
- Development of polysaccharide based films with nano fillers for medical and industrial applications. University of the Punjab, Lahore, Research Project Grant for the Fiscal Year 2017-18, 0.15 Mill Rs

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

○ R&D – An Overview

The institute is engaged in R & D for development of new materials and new processes that are essential for industrial advancement. Strategic areas of focus are (i) energy and sustainability; (ii) Gas Cleaning and Filtration; (iii) Fisher Tropsch Synthesis; (iv) Polymer sciences; and (v) water and waste water treatment.

○ Projects: Completed

The following are the projects which have been successfully completed by the Institute. The details of few of the projects completed with the help of HEC, University of the Punjab and SNGPL are given below:



| Project Title | Funded by | Approved Amount |
|--|-----------|-----------------|
| Energy Conservation in Boilers / Furnaces through Installation of Re-cuperator for Exhaust Gases and its Heat usage for Primary and Secondary Air. | SNGPL | 1.3 Million |
| Development of Solar Water Heater for Geyser. | SNGPL | |
| Development of Coal Briquettes from Coal Powder (Completed) | SNGPL | |

○ **Newly Launched**

The faculty is motivated and facilitated to apply for grants from local and foreign agencies. The list of on-going projects funded by HEC is given below;

| Project Title | Funded by | Approved Amount |
|---|-----------|-----------------|
| Analysis of Black Powder (Revise) | SNGPL | 3.32 Million |
| Selection of Suitable Packaging Material for Carbonaceous Backfill. | SNGPL | |
| Selection of Suitable Paint for the Cathodic Protection at SMS's (In Process) | SNGPL | |

○ **Publications**

The faculty at the Institute is actively engaged in R & D activities and has published their work in national as well as international journals of good repute. The details of publications during the year 2018 are given below:

| Sr. No. | Name of faculty member | Title of Paper/Article |
|---------|---|--|
| 1 | Prof. Dr. Mahmood Saleem | Production of bio-oil and bio-char from different biomass wastes |
| 2 | Prof. Dr. Mahmood Saleem | Simulation of Proton Exchange Membrane Fuel Cell by using ANSYS Fluent |
| 3 | Prof. Dr. Mahmood Saleem | Pyrolysis of Cotton Stalk in Fixed Bed Reactor: Effect of Particle Size of Feedstock on Bio-oil Yield |
| 4 | Prof. Dr. Syed Nadir Hussain | Cellulose acetate based thin film nanocomposite reverse osmosis membrane incorporated with TiO ₂ nanoparticles for improved performance |
| 5 | Dr. Hafiz. M. Anwaar Ashghar / Dr. Hamid Sattar | Green synthesis of stabilized spherical shaped gold nanoparticles using novel aqueous <i>Elaeis guineensis</i> (oil palm) leaves extract |
| 6 | Dr. Khurram Shahzad | Correlation for Predicting Solid Holdup in The Circulation Fluidized Beds Riser |
| 7 | Dr. Rabya Aslam | Thermophysical Studies of Dibenzyltoluene and Its Partially and Fully Hydrogenated Derivatives |



○ **Research Journals**

Following two journals are being published by the faculty and institute jointly on annual basis:

- Journal of Faculty of Engineering and Technology
- Journal of Pakistan Institute of Chemical Engineers

RESEARCH COLLABORATION

○ **Indigenous**

Institute has collaboration with SNGPL, PCSIR, PSF, IRP and other public sector organizations for conducting research projects at graduate and undergraduate level.

○ **Foreign Linkages**

University has signed a few MOUs with the foreign universities. Recently a MOU has been signed with University Technology Petronas Malaysia. One faculty member is in KFUPM on Post Doc leave.

○ **Funding grants for R&D**

Faculty at the Institute actively participates in R & D activities. Every year faculty members get significant research grant from Punjab University. In addition, one faculty member is working on research supported by HEC grant.

DEPARTMENT OF ELECTRICAL ENGINEERING

○ **R&D- An Overview**

The research mission is to advance knowledge in the specialized areas of Electrical Engineering to strengthen Engineering-based economy of the Country

○ **Projects: Completed:**

- Infrastructure of 40000 SQFT for Department of Electrical Engineering comprising of 8 class rooms, 13 labs, 25 faculty offices and other allied facilities. i.e. library, seminar hall etc
- Procurement of lab equipment for more than 6 labs.

○ **Publications =7**

○ **Seminars + Workshops Attended by faculty members: 17**

○ **Research Journals: 01**

RESEARCH COLLABORATIONS

○ **Foreign Linkages**

Electrospell, UK and University of Glasgow, University of Cape Town (RSA), AAU (Denmark)

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

○ **R&D-An Overview**

- Four PhD synopsis have been approved by Advanced Studies and Research Board of the University.
- All MSc QPM, MS TQM and MS IEM thesis supervised in this Institute are checked by Turnitin software before submission.



○ **Publications**

| Sr. No. | Name of Faculty Member | Title of Research Paper | Name of Publishing Journal | Vol. | International/Local | | |
|---------|-------------------------|---|---|------------|---------------------|------------|------------------------|
| | | | | | Int. (IF) | HEC Recog. | Conference Proceedings |
| 1 | Dr. Muhammad Usman Awan | Developing a Structured Framework for Measuring the Police Efficiency | International journal of Quality & Reliability Management | 2017 | ✓ | | |
| 2 | Dr. Muhammad Usman Awan | Service Quality & Organizational culture as predictors of job satisfaction: a medical faculty perspective of Pakistan | Pakistan Business Review | 19(2) 2017 | | ✓ | |
| 3 | Dr. Muhammad Usman Awan | TQM, 5S and Quality Tools Status: Pakistani Manufacturing Sector Perspective | Technical Journal | 23(2) 2018 | | ✓ | |
| 4 | Dr. Muhammad Usman Awan | Impact of TQM on organizational performance: The mediating role of business innovativeness and learning capability." | Journal of Quality and Technology Management | 15(1) 2018 | | ✓ | |
| 5 | Dr. Muhammad Shafiq | Dimensions of Service Quality in Healthcare: Systematic Review | International Journal for Quality in Health Care | 2018 | ✓ 2.554 | | |
| 6 | Dr. Muhammad Shafiq | The Service Quality Dimensions and Learner Perspectives: The Asian Context | Journal of Quality and Technology Management | 2018 | | ✓ | |
| 7 | Dr. Muhammad Shafiq | The effect of TQM on organizational performance: empirical evidence from the textile sector of a developing country using SEM | Total Quality Management & Business Excellence | 2017 | ✓ 1.526 | | |
| 8 | Dr. Muhammad Shafiq | Service Quality Assessment of Hospitals in Asian Context: An Empirical Evidence from Pakistan | The Journal of Health Care Organization, Provision, and Financing | 54 2017 | ✓ 0.737 | | |
| 9 | Dr. Muhammad Shafiq | Evaluating quality standards' adherence in surgical care: a case study from Pakistan | International Journal for Quality in Health Care | 30(2) 2017 | ✓ 2.554 | | |



| | | | | | | | |
|----|--------------------|--|--|------------|-----------|---|---|
| 10 | | How Do Patients Perceive and Expect Quality of Surgery, Diagnostics, and Emergency Services in Tertiary Care Hospitals? An Evidence of Gap Analysis from Pakistan, | Oman Medical Journal, | 32(4) 2017 | ✓ | | |
| 11 | | Innovation and Knowledge Management: A Literature Review and Research Framework | Journal of Quality and Technology Management | 13(1) 2017 | | ✓ | |
| 12 | Ms. Faryal Jalil | Assessing the Mediating Role of manufacturing competitive strategies in the relationship of Quality Management System and Financial Performance | Journal of Management Sciences | 11(3) 2018 | | ✓ | |
| 13 | Ms. Faryal Jalil | Factor Analysis of SERVQUAL Model in Technical and Vocational Education and Training Environment of Pakistan. | International Review of Management and Business Research | 7(2) 2018 | ✓ 2.12 | | |
| 14 | Mariam Altaf Tarar | Lean in Parallel with Green Manufacturing | | 2017 | | | ✓ |
| 15 | Mariam Altaf Tarar | Lean system in worldwide Higher Education Institutes (HEIs) | | 2017 | | | ✓ |

- **Conferences, Seminars and Workshops, etc.**
 - A monthly department level seminar of BSc (Engg) Industrial Engineering & Management students is organized.
 - A monthly department level seminar of faculty is organized.
- **Research Journals**
Institute publishes one research journal “Journal of Quality & Technology Management” which is recognized by HEC in X category.

Faculty of Islamic Studies

INSTITUTE OF ISLAMIC STUDIES

- **Projects: (i) Completed**
Concept of Nafs in Quran and Modern Psychological Thought
- **Newly launched:** Quranic Concept of Religion



○ **Publications: Books/ Edited.**

Funding by Punjab University

| Sr. No. | Name of Author | Title of Paper/Article |
|---------|---|---|
| 1 | Dr. Ihsan ur Rehman Ghouri/ Dr. Farooq Haider | کتب طبقات المفسرین کے مناہج و خصائص |
| 2 | Dr. Hafiz Usman Ahmad | مقامات مقدسہ کے انہدام کی شرعی حیثیت |
| 3 | Prof. Dr. Muhammad Saad Siddqui / Nabila Falak | اجتہادات نبی و غیر نبوی۔ حجت و مشروعیت میں فرق |
| 4 | Dr. Hafiza Shahida Parveen/ Khizar Hayat | شریعت اسلامیہ کی روشنی میں بیعتہ کے احکام |
| 5 | Prof. Dr. Tahira Basharat / Muhammad Afzal | اسلام کا نظریہ تکثیری |
| 6 | Asim Naeem / Dr. Ghulam Hussain Babar | اقبال اور افراد کی تربیت۔ پاکستان کے اسلامی تشخص کے تناظر میں۔ |
| 7 | Prof. Dr. Muhammad Hammad Lakhvi/Dr. Humaira Ahmad | The Challenge for Muslim Intellectuals: Unravelling the Postmodernist Enigma |
| 8 | Dr. Usman Ahmad | مدینہ منورہ کی طرف سفر کی شرعی حیثیت |
| 9 | Dr. Asim Naeem / Dr. Ghulam Hussain Babar | گردشِ دولت۔ اسلامی نظم معیشت کا ایک اصول |
| 10 | Prof. Dr. Muhammad Hammad Lakhvi/Muhammad Arif | تصورِ جلال۔ اقبال اور رومانوی مفکرین کے افکار کا تقابلی مطالعہ |
| 11 | Dr. Shahida Parveen/ Dr. Ahmed Usman | Islamic Law of Inheritance: Awareness Among Women of the Punjab Iram Rubab |
| 12 | Prof. Dr. M. Saad Siddiqui/ Amir Hayat | An Islamic Perspective of Labour Unions |
| 13 | Dr. Usman Ahmad | الشہون بر رسول اللہ۔ کتب سیرت و متون حدیث کا مطالعہ |
| 14 | Dr. Usman Ahmad | الزمیل کی تفسیر اشاری |
| 15 | Dr. Ihsan ur Rehman Ghuri/ Hafiz Muhammad Ramzan | کتاب الشفاء کا منہج و اسلوب |
| 16 | Dr. Ihsan ur Rehman Ghuri/ Dr. M. Dilshad Mohabbat | Objectives of Christian Missionary Education in the Colonial Punjab - A Critical Appraisal |
| 17 | Prof. Dr. Muhammad Saad Siddqui / Dr. Nabila Falak | نبی ﷺ کے اصول اجتہاد |
| 18 | Dr. Asim Naeem | سیرت نگاری میں مارٹن لنگو (1909ء-2005ء) |



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|----|--|--|
| 19 | Prof. Dr. Muhammad Hammad Lakhvi / Sabahat Afzal | مطالعہ سیرت کا مادی منہج۔ تجزیاتی مطالعہ |
| 20 | Prof. Dr. Tahira Basharat / Umme Salma | مثالی نظام تعلیم کی تشکیل اور حکومتی ذمہ داریاں (عصر حاضر میں تناظر میں) |
| 21 | Prof. Dr. Muhammad Saad Siddiqui / Dr. Sultan Sikinder | مباحث سنت۔ فقہاء اصولیین اور صدر الشریعہ (عبد اللہ مسعود متوفی 747ھ) کے افکار کا تقابلی مطالعہ |
| 22 | Dr. Hafiza Shahida Parveen | پاکستانی خواتین میں مطالعہ قرآن کی عصری صورت حال۔ ایک جائزہ |
| 23 | Dr. Hafiz Hasan Mandni | قیادت کی تعیناتی کے شرعی اصول |
| 24 | Dr. Hafiz Hasan Mandni | تشدد و انتہا پسندی اور اسلام |

○ Research Journals

Two issues of “Al-Qalam” were published during the period in question.

DEPARTMENT OF URDU ENCYCLOPAEDIA OF ISLAM

○ Projects

▪ Department

Second Edition of the Urdu Encyclopedia of Islam

○ Publications: Books

Dr. Zahira Nisar

مطبوعہ مقالہ برائے بی ایچ ڈی (اردو):

”ادبی تحریکوں کے اردو ناول پر اثرات“، ڈاکٹر زاہرہ نثار، مغربی پاکستان اردو اکیڈمی لاہور، ۲۰۱۸ء

○ Conferences, Seminars and Workshops, etc.

Dr. Hafsa Nasreen

کانفرنس:

دوروزہ بین الاقوامی سیرت کانفرنس، گورنمنٹ کالج یونیورسٹی سیالکوٹ، بتاریخ ۲۱-۲۲ فروری ۲۰۱۸ء۔

مقالہ بعنوان ”اسلامی معاشرے کی اخلاقی تشکیل نو۔ جذبہ تشکر کی ضرورت و اہمیت“۔

○ Research Journals

Dr. Muhammad Arshad

”مکتوبات ڈاکٹر محمد حمید اللہ“، بنیاد (جلد دراسات اردو، گرمانی مرکز زبان و ادب، لمز LUMS، لاہور) ہائر ایجوکیشن کمیشن کا منظور شدہ، جلد ۹ (۲۰۱۸ء)، ص ۱۱۳-۱۱۵۔

A Life in Letters: Muhammad Asad and Pola Hamida Asad to Muhammad Husain Babri, Part II: Twenty-three Letters (1964-1985), *Islamic Sciences* (Journal of the Center for Islamic Sciences, CANADA), Vol. 15 (Winter 2017) No. 2, pp. 116-141.

Dr. Hafsa Nasreen

(ہائر ایجوکیشن کا منظور شدہ) ادارہ علوم اسلامیہ، جامعہ پنجاب، جون ۲۰۱۸ء۔ ”مجالس رسول“ (انتخاب کا طرزِ نظم)، درجہات الاسلام،

Dr. Zahira Nisar

”الالہ صحرائی کا جذبہ حب الوطنی“، ڈاکٹر زاہرہ نثار، ”الایام“ (شش ماہی) کراچی، جلد ۹، شمارہ: ۱، جنوری۔ جولائی ۲۰۱۸ء۔



SHEIKH ZAYED ISLAMIC CENTRE

○ Publications

- Dr. Muhammad Ijaz (Director, Sheikh Zayed Islamic Centre)
فقہی اختلافات کے مابین امام شہرائی اور شاہ ولی اللہ کے اسالیب تطبیق
- Dr. Muhammad Abdullah (Professor, SZIC)
عصمت انبیاء: تالمود اور قرآن حکیم کا مطالعہ
رسول اللہ کی حسن کاری اور جمال پسندی
آزادی اظہار کی حدود و قیود: مسئلہ عصمت انبیاء اور اقوام متحدہ
- Dr. Hafiz Muhammad Abdul Qayyum (Associate Professor, SZIC)
تفسیر القرآن بالقرآن میں اضواء البیان کا مقام
- Dr. Hafiz Abdul Basit Khan (Assistant Professor, SZIC)
تونس کے عائلی قوانین -- ایک تجزیاتی مطالعہ
- Dr. Samina Saadia (Assistant Professor, SZIC)
تفسیر القرآن بالقرآن والسنۃ تفسیر مفتی محمد عبدہ کا اختصاصی مطالعہ
شمالی نبویہ کے بیان میں علامہ قسطلانی کا منہج و اسلوب
حلال غذا اور صارفین کے حقوق کا تحفظ - شریعت اسلامیہ کی روشنی میں تحقیقی جائزہ

○ Conferences, Seminars and Workshops, etc.

Sheikh Zayed Islamic Centre organized different seminars according to the following detail:

- Date : 05-12-2017
Topic : خفی اصول الفقہ میں قرآن و سنت کا باہمی تعلق
Speaker: Ammar Khan Nasir
- Date : 11-12-2017
Topic : ”و جز المساکل الی موطا امام مالک (شیخ محمد زکریہ کاندھلوی) اسلوب و خصائص“
Speaker: Sarwar Khan
- Date : 03-04-2018
Topic : Qiraat, Naat & Speech Competation
Speaker: Shabbir Ahmad
- Date : 18-10-2018
Topic : سیرت نگاری کے جدید رجحانات
Speaker: Prof. Dr. Yasin Mazhar Siddiqui, Former Director Institute of Islamic Studies, Ali Garh Muslim University, India.
- Date : 20-10-2018
Topic : Rights for the Disable Persons in The Islamic Society



○ **Research Journals**

A bi-annual and multilingual research journal "Al-Adwa" is being published by the Centre which is an approved journal of Higher Education Commission (HEC) in "Y" Category. Dr. Muhammad Ijaz, Director Sheikh Zayed Islamic Centre is Chief Editor and Dr. Hafiz Muhammad Abdul Qayyum is the Editor of the above said journal.

Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

○ **Research & Development**

| Name | Title | Funding |
|---------------------|---|---------|
| Dr. Shazia Qureshi | Syeda Azra Batool, Hafiz Khalil Ahmad & Shazia Noureen Qureshi, "Impact of demographic Variables on Women's Economic Empowerment: An Ordered Probit Model", (2017), Journal of Women & Aging, Vol. 23, No.1, Published online (Taylor & Frances) | |
| Dr. Amanullah Malik | <p>1. Constitutional Jurisdiction of Public Interest Litigation Assuring Access to Justice in India, Journal of the Research Society of Pakistan, (Vol. 55, No. 2, Jul. – Dec., 2018)</p> <p>2. Criminalizing Literature of Hate Speech in Pakistan Dr. Aman Ullah Assistant Professor, University Law College, Bazyaft-32 (Jan. – Jun. 2018) Urdu Department, Punjab University, Lahore. (HEC recognized)</p> <p>3. Governing Abuse of Free Speech during Elections in Pakistan by Aman Ullah Malik, A Research Journal of South Asian Studies, (Vol. 33, No. 1, Jan. – Jun. 2018). (HEC recognized)</p> <p>4. Fundamental Rights as Basic Structure of Constitution: Judicial Restraint of Pre-Achakzai Case Aman Ullah Malik, Journal of Pakistan Vision (Vol. 19, No. 1, 2018) Published by: Pakistan Study Center ISSN</p> | |



| | | |
|----------------------|--|--|
| | <p>– 1681-5742. (HEC Recognized)</p> <p>5. The Politics of Pragmatism in Pakistan: A Case Study of the Pakistan People's Party Muhammad Iqbal Chawla Aman Ullah, Journal (Jan. – June 2018) Vol. XXXIX No.1. (HEC recognized)</p> <p>6. Bazyaft-32 (Jan. – Jun. 2018) Urdu Department, Punjab University, Lahore 27 Expending Literature of Human Right to Life in Pakistan Tahir Parvaiz Malik / Aman Ullah. (HEC recognized)</p> | |
| Nameen Ullah Khan | Constitutional Manacles on Superior Court's Jurisdiction and Recent Scenario on Public Interest Litigation in Pakistan Current Issue (Vol. 33, No. 2, Jul. - Dec. 2018) Journal of South Asian Studies of Punjab University.- | |
| Jawad Riaz | Jawad Riaz & Zakia Suleman: Refugee Law and Policy: An examination of refugee response framework in Pakistan and EU., International Journal of Law, Vol.4, Issue 2, March 2018 PP 162-168, (International Journal Recognized by UGC India) | |
| Iftikhar Ahmad Tarar | <p>1. Alternative Dispute Resolution: A road less travelled in Pakistan., Journal of Punjab University Historical Society. Vol. 19, No. 2, 2018</p> <p>2. Sexual Harassment: Comparative Analyses of Legislative and Institutional Arrangements in India and Pakistan, Journal of Pakistan Vision, Vol. 31, No. 2, Dec. 2018</p> | |

○ **Projects: Completed**

Yes Duration 01 Year,

Sponsoring agency/funding:

Punjab University/PHEC/HEC



- **Publications:** Books/Edited
Global Legal Systems and Constitutional Libretto in Pakistan
Author: Naeemullah Khan, Assistant Professor
Publisher: Manzoor Law Book House

RESEARCH COLLABORATION

- **Foreign Linkages:** West Law
- **Funding Grants for R&D:** West Law

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

- **Research & Development**
Research courses are taught at both undergraduate and graduate level. Individual research projects are essential requirement for students of master's and doctorate level and undergraduate students. Research supervisors are assigned to every student undergoing their research project at master's and doctorate level. 29 research theses are completed and added to library during this year by MS students and 31 by BS (4 Years) students.
- **Projects:** Completed

| Sr. No. | Name of Faculty | Project Name | Duration | Sponsoring Agency | Funding | Present Status |
|---------|--------------------|--|----------|-------------------|---------|----------------|
| 1 | Dr. Saima Dawood | Self-Compassion, Mindfulness, Emotion Regulation and Depressive Symptoms in Patients with Depression | One Year | Punjab University | 150000 | Completed |
| | Ms. Faiza Safdar | Academic Motivation, Need Satisfaction, Social Networking and Fear of Missing out in Young Adults | One Year | Punjab University | 150000 | Completed |
| | Ms. Tehreem Arshad | Generosity, Emotion Regulation and Perceived Wellness in Elderly | One Year | Punjab University | 150000 | Completed |
| | Ms. Humaira Naz | Attachment Style, Conflict Resolution and Marital quality of Married Individuals | One Year | Punjab University | 150000 | Completed |



○ **Conferences, Seminars and Workshops, etc.** (Organized by Centre for Clinical Psychology)

| Name of Resource Person | Sponsors | Presentation Oral / Poster | Topic | Date |
|--|----------|----------------------------|---|---|
| Dr. Oskaan Mehmedagi | CCP | Oral | Realizing Yours Personal Potentials | 15 th November, 2017 |
| Dr. Shyma Jundi | CCP | Oral | The Psychology of Successful Relationship | 16 th November, 2017 |
| Dr. Mansur Choudry | CCP | Oral | ABA Based Intervention for Children with Autism & Hands on Training | 4 th January, 2018 |
| Mr. Faran Ali | CCP | Oral | AMOS | 14 th , 15 th & 16 th February, 2018 |
| Dr. Chok Hiew | CCP | Oral | Mind Body Movement Technique to Overcome Trauma, Pain and Illness: A Heart Breath Energy Practice | 14 th March, 2018 |
| Dr. Neelofar Rahman | CCP | Oral | Therapeutic Engagement in the Assessment of Developmental Trauma | 21 st March, 2018 |
| Dr. Uzma Ali | CCP | Oral | Learn to Deal with Trauma Survivors | 22 nd March, 2018 |
| Dr. Patricia Omidian | CCP | Oral | Commubnity Wellness: Psychotherapy and Social Change Process | 11 th May, 2018 |
| Ms. Mirrat Gul Butt | CCP | Oral | Khushi & Khatoon | 5 th July, 2018 |
| Dr. Tahira Yousaf | CCP | Oral | NLP & Hypnotherapy | 5 th July, 2018 |
| Dr. Aisha Sitwat | CCP | Oral | Treatment for Depression and Anxiety Through Zikr e Elahi | 5 th July, 2018 |
| Dr. Uzma Masroor | CCP | Oral | Schema Focused Therapy | 5 th July, 2018 |
| Prof. Dr. Zainab Zadeh Director, Institute of Professional Psychology, Bahria University, Karachi | CCP | Oral | Play Therapy | 5 th July, 2018 |
| Mr. Faran Ali Lecturer, University of Management & Technology, Lahore | CCP | Oral | AMOS | 5 th , 6 th & 7 th September, 2018 |

○ **Extension Lectures**

| Name of Resource Person | Sponsors | Presentation Oral / Poster | Topic | Date |
|-------------------------|----------|----------------------------|----------------------------|--------------------------------|
| Ms. Khawar Sultana | CCP | Oral | Community Outreach Program | 11 th October, 2017 |



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|-------------------------|-----|------|--|---------------------------------|
| Dr. Mujeeba Ashraf | CCP | Oral | Introduction to Mind Fullness | 25 th October, 2017 |
| Dr. Mohsina Najeeb | CCP | Oral | Conversion Disorder in Children | 8 th November, 2017 |
| Dr. Ali Hashmi | CCP | Oral | Ruling out Organicity in Functional Disorder | 22 nd November, 2017 |
| Ms. Lubna Azhar | CCP | Oral | Rapport Building & Psycho Education | 6 th December, 2017 |
| Dr. Iram Zehra Bokharey | CCP | Oral | Case Conceptualization in CBT | 25 th April, 2018 |
| Ms. Khawar Sultana | CCP | Oral | Community Outreach Program | 4 th July, 2018 |
| Ms. Najma Touheed | CCP | Oral | Gestalt Therapy | 8 th August, 2018 |
| Ms. Najma Touheed | CCP | Oral | Gestalt Therapy | 15 th August, 2018 |

- **Conferences, Seminars and Workshops, etc.** (sponsors, oral presentation+poster presentation)

| Sr. No | Faculty Member | Conferences, Seminar and Workshop |
|--------|------------------|--|
| 1 | Ms. Humaira Naz | Oral Presentation of research paper titled “Body Image, Rejection Sensitivity and Body Dimorphic Concerns in Late Adolescent Females” in the 13 th International Conference on Child and Adolescent Psychopathology (ICCAP 2018) organized by Department of Psychology, University of Roehampton, London, UK from 6 th to 8 th August, 2018 at Borneo Island Malaysia. |
| 2 | Ms. Aasma Yousaf | Oral Presentation of research papers titled “Distress Tolerance, Experiential Avoidance, and Anxiety Sensitivity in Patients with Substance Use” and “Social comparison, Self-Compassion and Readiness for Personal Improvement in Individuals with By-Birth and Acquired Physical disability” in the 13 th International Conference on Child and Adolescent Psychopathology (ICCAP 2018) organized by Department of Psychology, University of Roehampton, London, UK from 6 th to 8 th August, 2018 at Borneo Island Malaysia. |



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|---|--------------------|---|
| 3 | Dr. Saima Dawood | Oral Presentation of two research papers titled “Self Esteem and Social Interaction Anxiety in Men with Androgenetic Alopecia” and “Socio Demographic Indicators of Psychological Distress in Pakistani Women with Infertility” in the 37 th Year IMSA Annual conference on “Translating Medical Research & Innovation into Practice” organized by International Medical Sciences Academy (IMSA) from 23 to 25 th August, 2018 at Glasgow, Scotland, UK |
| 4 | Ms. Tehreem Arshad | Oral Presentation of research paper titled “Generosity, Emotion Regulation, and Perceived Wellness in Older Individuals” in the 37 th Year IMSA Annual conference on “Translating Medical Research & Innovation into Practice” organized by International Medical Sciences Academy (IMSA) from 23 to 25 th August, 2018 at Glasgow, Scotland, UK |
| 5 | Ms. Faiza Safdar | Oral Presentation of research paper titled “Media Influence and Compulsive Buying in Young Adults” in the 37 th Year IMSA Annual conference on “Translating Medical Research & Innovation into Practice” organized by International Medical Sciences Academy (IMSA) from 23 to 25 th August, 2018 at Glasgow, Scotland, UK |

○ **Research Journals**

| Sr. No. | Name of Author | Article Name | Journal | Page No. |
|---------|------------------|--|--|--|
| 1 | Dr. Saima Dawood | Psychological Disorders among Prisoners in Pakistan. | Journal of Pakistan Psychiatric Society (JPPS). | ISSN: 1726-8710. (2017), 30 (2), 17-20. |
| 2 | Dr. Saima Dawood | Cross-Cultural Validation of Dysfunctional Attitude Scale | Pakistan Journal of Social and Clinical Psychology (PJSCP) | |
| 3 | Dr. Nashi Khan | Translation and Cross-cultural Validation of Children Rejection Sensitivity Questionnaire (CRSC) for Pakistani adolescents. Category | Pakistan Journal of Psychological Research. | ISSN: 1016-0604. (2017), 32(1), 297-315. |



| | | | | |
|---|--------------------|---|--|--------------------|
| 4 | Ms. Humaira Naz | Daily living functioning, Social engagement and wellness of older adults. Special Thematic Section on Aging and Health in Different Socio Cultural Context. | Psychology Community & Health, | 6(1), 93-102. doi. |
| 5 | Ms. Tehreem Arshad | Spiritual Intelligence, Work- Family Conflict and Psychological Distress among University Teachers. | Bahria Journal of Professional Psychology. | 16(1) 01-25 |
| 6 | Ms. Tehreem Arshad | Perceived Stress reactivity, Rumination and Cognitive Emotion Regulation as Predictors of Depression. | Journal of Pakistan Psychiatric Society(JPPS) | 14(1) 08-13 |
| 7 | Ms. Aasma Yousaf | Hypoactive Sexual Desire Disorder, Sexual Distress and Quality of Life in Women with Surgical and Natural Menopause. | Journal of the Society of Obstetric and Gynecologists of Pakistan (JSOGP). | Vol. 7 (1). |
| 8 | Ms. Faiza Safdar | Level of Death Anxiety among Cancer Patients and Non-Cancer Participants with reference to Living Arrangements". | Pakistan Journal of Professional Psychology: Research and Practice. | |

○ **Research Journals & Abstracts**

- 8th Issue of Pakistan Journal of Professional Psychology: Research & Practice was printed.
- 9th Issue of Pakistan Journal of Professional Psychology: Research & Practice is in process.
- 4th Issue of Psychological Abstracts was printed.
- 5th Issue of Psychological Abstracts is in process

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

○ **Research & Development**

Centre of Excellence in Molecular Biology has provided a platform to the scholars and scientists to work in an innovative environment. This state of the art molecular biology research facility has greatly contributed in the development, improvement and identification of new methods for disease diagnosis and drug development. Different research groups like stem cells, plant genomics, plant biotechnology, seed biotechnology, Plant biosafety studies Molecular Medicine, hereditary diseases, applied and functional genomics, biopharmaceuticals, forensic science, molecular virology and bioinformatics groups are working in an integrated manner. They are publishing high impact and well cited papers in the reputed journals. Students graduated from CEMB are accepted on faculty position not only in Pakistani universities but also at international universities. This shows



the highly competitive environment of CEMB that is producing world class scientific leaders. Scientists at CEMB are working hard that will significantly impact agriculture and health communities not only in Pakistan but also worldwide. The Punjab Seed Council, in its 49th meeting held on 25-10-2017 has approved CEMB-66 double Bt genes cotton variety for general cultivation in the Punjab Province. The excellent teaching and research environment in the Centre attract the scientists and researchers from national and international organizations to work and exchange knowledge for the betterment of humanity.

- **Projects: Completed**
 - Project No. 20-1297/R&D/10/503 entitled "The Development of Oligonucleotide Microarray and its use in the Analysis of Abiotic Stress – Rs.6445842.
- **Newly Launched**

| Sr. # | Name of the Projects | Sponsoring Agency | Funding Million / Rs. |
|-------|---|-------------------|-----------------------|
| 1 | Transforming CEMB PARB-Biotech Maize Prototype into viable commercial product for sustainable maize production | HEC | 14,000,000/- |
| 2 | Control of Cotton Insects through modified combination of BT and plant Lectin Genes | HEC | 2,447,327/- |
| 3 | Development of a Single Chimeric Dengue Virus DNA Vaccine and Study of its Immunogenicity and Response Against Local Dengue Serotypes | HEC | 7,561,256/- |
| 4 | Cloning and Expression of Mosquito Larvicidal Genes in Green Algae (<i>Chlamydomonas</i> sp.) | HEC | 2,684,526/- |
| 5 | Investigation of Hepatoprotective Role of Flavonoids and Saponins Mediated Pathways in Liver Fibrosis and Cirrhosis | HEC | 4,206,102/- |
| 6 | Development of Cell Replacements for Repair of Damaged and Diseased Organs | HEC | 13,196,000/- |
| 7 | Development of Human Recombinant Interleukin-11 (<i>Oprelvekin biosimilar</i>) | HEC | 5,346,776/- |
| 8 | Development of Nanoparticles based Immuno-detection Assay of Chicks Fed with edible vaccine against NDV | HEC | 4,94,216/- |
| 9 | Transformation of Sucrose Isomerase Genes in Sugarcane for Boosted Sugar Recovery" | HEC | 3,902,997/- |
| 10 | Study of Association of Potential Candidate SNPs residing on Chromosome 14 with inherited Emphysema in local population. | HEC | 1,870,544/- |

Publications: National and international

- Ibrahim A, Shahid AA and Ahmad A. (2017). Evaluation of carrier materials to develop bacillus subtilis formulation to control root knot nematode infection and promote agro-economic traits in eggplant. *JAPS, Journal of Animal and Plant Sciences*; 27(4)1321-1330



- Shahid AA Nawaz K, Iftikhar S, Anwar W and Subhani MN. (2017). New record of fruit rot of bitter gourd (*Momordica Charantia*) caused by *Phytophthora Palmivora* in Pakistan. *Plant Disease*; 101(7)
- Ivanova EL, Mau-Them FT, Riazuddin S, Kahrizi K, Laugel V, Schaefer E, de Saint Martin A, Runge K, Iqbal Z, Spitz MA, Laura M, Drouot N, Gérard B, Deleuze JF, de Brouwer APM, Razzaq A, Dollfus H, Assir MZ, Nitchké P, Hinckelmann MV, Ropers H, Riazuddin S, Najmabadi H, van Bokhoven and H Chelly J. (2017) Homozygous Truncating Variants in TBC1D23 Cause Pontocerebellar Hypoplasia and Alter Cortical Development. *Am J Hum Genet*; 101(3):428-440 doi: 10.1016/j.ajhg.2017.07.010.
- Ansar M, Riazuddin S, Sarwar MT, Makrythanasis P, Paracha SA, Iqbal Z, Khan J, Assir MZ, Hussain M, Razzaq A, Polla DL, Taj AS, Holmgren A, Batool N, Misceo D, Iwaszkiewicz J, de Brouwer APM, Guipponi M, Hanquinet S, Zoete V, Santoni FA, Frengen E, Ahmed J, Riazuddin S, van Bokhoven H and Antonarakis SE . (2017). Biallelic variants in LINGO1 are associated with autosomal recessive intellectual disability, microcephaly speech and motor delay. *Genet in Medicine*; 20(7):778-784 doi: 10.1038/gim.2017.113.
- Iqbal F, Sadique S, Batool F, Sarwar MB, Rashid B, Shahid MN, Shahid AA, Husnain T. (2017) Zinc finger transcription factor induces the drought, salt and cold stress tolerance in transgenic cotton. *Indian J Biotechnology*; 16(3):333-340
- Hassan S, Samiullah TR, Ansari M, Rashid B and Husnain T. (2017) Cloning, antibody production, expression and cellular localization of universal stress protein gene (*USP1-GFP*) in transgenic cotton *Journal of Plant Biochem and Biotechnol*; 27(2):175-185 <https://doi.org/10.1007/s13562-017-0427-5>
- Mohamed BB, Aftab B, Sarwar MB, Rashid B, Ahmad Z, Hassan S, Husnain T (2017) Identification and Characterization of the Diverse Stress-Responsive R2R3-RMYB Transcription Factor from *Hibiscus sabdariffa* L. *International Journal of Genomics V*, 2017, 12 p <https://doi.org/10.1155/2017/2763259>
- Tabassum B, Khan A, Tariq M, Ramzan M, Khan MSI, Shahid N and Aaliya K (2017). PGPR in Biocontrol and growth promotion; Bottlenecks in Commercialization and Future Prospects. *Applied Soil Ecology*; 121:102–117.
- Toufiq N, Tabassum B, Bhatti MU, Khan A, Tariq M, Shahid N, Nasir IA and Husnain T. (2017) Improved antifungal activity of barley derived chitinase I gene that overexpress a 32kDa recombinant chitinase in *E.coli* host. *Brazilian Journal of Microbiology*; 49(2):414-421. <http://dx.doi.org/10.1016/j.bjm.2017.05.007>
- Majid MU, Awan MF, Fatima K, Tahir MS, Ali Q, Rashid B, Rao AQ, Nasir IA and Husnain T. (2017) Genetic Resources of Chili Pepper (*Capsicum annum* L.) against *Phytophthora capsici* and Their Induction through Various Biotic and Abiotic Factors. *Cytology and Genetics*; 51(4): 296–304. doi: 10.3103/S009545271704003X



- Salisu IB, Shahid AA, Yaqoob A, Ali Q, Bajwa KS, Rao AQ and Husnain T. (2017) Molecular approaches for high throughput detection and quantification of genetically modified crops: A review *Frontier in Plant Sciences*; 8: doi: 10.3389/fpls.2017.01670
- Ahmad A, Rehman MZU, Hameed U, Rao AQ, Ahad A, Yasmeen A, Akram F, Bajwa KS, Scheffler J, Nasir IA, Shahid AA, Iqbal MJ, Husnain T, Haider MS and Brown JK. (2017) Engineered Disease Resistance in Cotton Using RNA-Interference to Knock down Cotton leaf curl Kokhran virus-Burewala and Cotton leaf curl Multan betasatellite Expression. *Viruses*; 9(9):257; doi: 10.3390/v9090257.
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- Tariq L, Batcho A, Sarwar MB, Jabbar B, Rashid B, Hassan S and Husnain T. In silico analysis, homology modeling and functional annotation of mitochondrial ZMHSP70.3rd international conference on Biosciences (ICBS-2018) held at Government College University Lahore. (May 09-11, 2018)
- Bokhari SAM, Fatima B, Usman M and Rashid B. Morpho-Physiological Responses of Guava Cultivars to Water Deficit. International Horticulture Conference; at PMAS Arid University, Rawalpindi. (April 25-27, 2018)
- Rashid B, Mohamed BB, Aftab B, Husnain T and Hassan S. Identification of potential transcripts in *Hibiscus sabdariffa* L. expressing under drought and salt stress. 7th International Molecular Biology and Biotechnology Congress” organized by and held at Necmettin Erbakan University Konya, Turkey. (March 25-27, 2018)
- Bushra Rashid. Learning Excitements beyond the boundaries”. Invited speaker at 6th International Conference on Education (ICE), “Science Beyond Class Room” held at University of education, Lahore (March 15-17, 2018)
- Bushra Rashid. “DNA Microarray in the study of molecular diagnosis” Invited speaker at “International Training Course on Poultry Viral Diagnostics” held at University of Veterinary and Animal Sciences, Lahore (Mar 5-12, 2018)
- Sher Z, Majid MU, Rashid B, Hassan S, Ali MA, Iqbal A, and Husnain T. Identification and Isolation of Wax Related Genes from *Gossypium arboreum* to Breed CLCuV Resistance in *Gossypium hirsutum*. 7th International Molecular Biology and Biotechnology Congress” organized by and held at Necmettin Erbakan University Konya, Turkey. (March 25-27, 2018)
- Dr. Tayyab Husnain. The International Cotton Genome Initiative (ICGI) Biennial Research Conference. Held at Edinburgh, Scotland, United Kingdom. (May 28 to June 01, 2018)



○ **Books**

| Sr. No | Authors | Title | Year | Publisher |
|--------|---|---|------|--|
| 1 | Kausar Malik | Algae based polymers, blends & composites' (Chapter 16) | 2017 | Elsevier |
| 2 | Sheikh Riazuddin , Azra Mehmood , Noreen Latief and Moazzan Nazeer Tarar | Book chapter: Stem cells for the repair of damaged skin and cartilage Stem Cells - From Drug to Drug Discovery | 2017 | Walter de Gruyter |
| 3 | Tabassum B, Aaliya K, Bhatti MU, Riaz S, Shahid N, Nasir IA and Husnain, T. | Chapter: Fungus Tolerant Biotech Crops: an Environment Friendly Approach for Sustainable Crop Productivity' edited by Kalpana Sengar 'Eco-Friendly Techniques for Enhancing Crop Productivity | 2018 | CRC Press, Taylor & Francis |
| 4 | Kausar Malik et al. | Author of Chapter 4 titled as "Protein based detection methods for genetically modified crops" of book titled "Protein Interaction Assays" Pp 47-65 | 2018 | In Tech Open Book http://dx.doi.org/10.5772/intechopen.75520 . |
| 5 | Prof. Dr. Kausar Malik | Abiotic stress signaling in Rice Crop. | 2018 | Published by Elsevier http://doi.org/10.1016/B978-0-12-814332-2.00027.7 |
| 6 | Tabassum B, Nasir IA and Husnain T. | Quest for Stress-Tolerant Sugarcane Biotechnology to enhance Sugarcane Productivity and Stress Tolerant. | 2018 | CRC Press, Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300 |

○ **Conferences, seminars and workshops etc.**

Conferences Attended

- Prof. Dr. Kausar Malik Certificate of participation received and poster presentation in International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
- Prof. Dr. Kausar Malik Invited guest in opening ceremony of ``7th international conference on biotechnology and bioengineering`` in virtual university on 26-10-2017, 27-10-2017.



- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.
- Prof. Dr. Kausar Malik Attended, paper presented & Chair the session of 3rd International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in University of South Asia & received shield on 24-2-17, 25-2-17
- Prof. Dr. Kausar Malik Attended and paper presented in the 37th Pakistan Congress of Zoology, as paper presenter held in GCU, Faisalabad, Pakistan on 28-2-17, 2-3-17
- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.
- Prof. Dr. Kausar Malik Attended, paper presented & Chair the session of 3rd International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in University of South Asia & received shield on 24-2-17, 25-2-17
- Prof. Dr. Kausar Malik Attended and paper presented in the 37th Pakistan Congress of Zoology, as paper presenter held in GCU, Faisalabad, Pakistan on 28-2-17, 2-3-17
- Prof. Dr. Kausar Malik Attended ``Invention to Innovation Summit ``as invited guest Ex-Director ORIC organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore -3-2017.
- Prof. Dr. Kausar Malik Certificate of participation received and poster presentation in International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
- Prof. Dr. Kausar Malik Invited guest in opening ceremony of ``7th international conference on biotechnology and bioengineering`` in virtual university on 26-10-2017, 27-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.



- Attend a RSC Pakistan 1st International Conference on Medical Chemistry and Drug Discovery is scheduled to be held on October 18-19, 2018. The Conference is being organized by Royal Society of Chemistry and Oxford University, at COMSTECH Secretariat, Islamabad.
- Attend one day meeting of the Departmental Tenure Track Review Committee (DTRC) In the Institute of Agricultural Sciences, University of the Punjab, Lahore. (February 22nd, 2018).
- Attend a three day Symposium “17th Shaukat khamum Cancer Symposium” on November 02-04 2018 held at Pearl Continental Hotel, Lahore Pakistan, organized by Shaukat khamum Memorial Cancer Hospital & Research Centre and The American Association of Continuing Medical Education.
- Attend a General Body Meeting of the Academy held on November 20, 2018 in Pakistan Academy of Science (PAS) Secretariat, Islamabad.
- Dr. Bushra Ijaz invited as guest speaker and delivered a talk on Cancer Genomics for biomarker Identification at conference on potential Cures of cancer at University of the Lahore
- Prof. Dr. Tayyab Husnain attended OIC Cotton Training Program (OIC-CTP) on “Development of Sustainable Transgenic Technology, Commercialization and Post-Release Monitoring” held from 8-10 May, 2018 in Ankara-Republic of Turkey.
- Prof. Dr. Tayyab Husnain attended The International Cotton Genome Initiative (ICGI) Biennial Research Conference to be held from May 28 to June 01, 2018 in Edinburgh, Scotland, United Kingdom.
- Prof. Dr. Tayyab Husnain attended 7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March, 2018)
- Prof. Dr. Tayyab Husnain attended one day meeting of the Departmental Tenure Track Review Committee (DTRC) In the Institute of Agricultural Sciences, University of the Punjab, Lahore. (February 22nd, 2018).
- Dr. Bushra Rashid (2018). Learning Excitements beyond the boundaries”. Invited speaker at 6th International Conference on Education (ICE), “Science Beyond Class Room” held at University of education, Lahore
- Dr. Bushra Rashid (2018). DNA Microarray in the study of molecular diagnosis Invited speaker at “International Training Course on Poultry Viral Diagnostics” held at University of Veterinary and Animal Sciences, Lahore.
- Prof. Dr. Idress Ahmad Nasir attended 7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March 2018)
- Dr. Noreen Latief attended dual use research of concerns (durc) workshop held at CEMB (16-18 July 2018)
- Dr. Noreen Latief participated in risk assessment of genetically modified crops held at CEMB (20 July 2018)



- Dr. Bushra Ijaz attended dual use research of concerns (durc) workshop held at CEMB (16-18 July 2018)
- Dr. Bushra Ijaz participated in risk assessment of genetically modified crops held at CEMB (20 July 2018)
- Dr. Noreen Latief attended 7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March 2018).

Conferences/ Seminars and Refreshers Courses Organized

- Organized One day “Peace Conference” on October 6, 2017.
 - Arrange a lecture on “Stress Management and Success in Life” by Dr. Saima Sandhu, CEO Neuro-Psychological Clinic, New jersey USA on November 8, 2017.
 - Organized 2nd International symposium on Advances of Molecular Biology in Plants and Health Sciences 21-23 November, 2017 at CEMB, Lahore.
 - CEMB Alumini meet was arranged at 20 November, 2017
 - International symposium on Advances of Molecular Biology in Plants and Health Sciences 21-23 November, 2017 at CEMB, Lahore
 - Organized CEMB Progress Week 08-11 January, 2018.
 - A lecture “Educational Lecture” by Ms. Aisha Khan, Executive Director, Laboratory Operations Interdisciplinary Stem Cells Institute, University of Miami School of Medicine on January 2-5, 2018.
 - A lecture of Dr. Martin W. King, Professor of Biotextiles & Textile Technology, North Carolina State University, College of Textiles, Raleigh USA Organized a visit of CEMB on March 9, 2018.
 - Organized a one day workshop on “Drought Stress Challenges for Agriculture & Mitigation Strategies” on Saturday 17 March, 2018.
 - Organized 3 day workshop on dual use research of concerns (DURC) (16-18 July 2018)
 - Organized 1 day workshop on risk assessment of genetically modified crops (20 July 2018).
 - A two-day workshop on “Plant Biotechnology for Food Security” delivered a lecture on “Plant Biotechnology Research at CEMB”. held on November 27-28, 2018 organized by Forman Christian College (A Chartered University), Lahore.
- **Research journals**
Advancements in Life Sciences (ISSN 2310-5380) started from 25th November, 2013.

RESEARCH COLLABORATION

- **Indigenous**
Student Exchange and Research Projects: Centre has strong linkages with different learning institutions. Many students are doing their internship with a background of life science. The institutions are as under,
- Lahore College for Women University
 - Kinnaird College or Women Lahore



- University of Veterinary and Animal Science, Lahore
 - Allama Iqbal Medical College (AIMC)/Jinnah Hospital, Lahore
 - Bahuddin Zakria University, Multan
 - Shaheed Zulfiqar Ali Bhutto Medical University, PIMS Islamabad,
 - Benevolent Trust Free Eye Hospital (LRBT), Lahore.
 - Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore.
 - Arid Agriculture University, Rawalpindi
 - University of Agriculture , Faisalabad
 - University of Lahore, Thokar Niaz Baig, Lahore
 - Government College University, Lahore
 - COMSAT Sahiwal Campus
 - Institute of Biochemistry & Biotechnology IBB, UVAS, Lahore.
 - Govt College Home Economics, Lahore.
 - FC College University, Lahore.
 - College of Earth and Environmental Science (CEES) University of Punjab
 - Avicenna Medical College/Hospital, Lahore.
 - Muhammad Ali Jinnah University, Islamabad
 - The Islamia University, Bahawalpur.
 - National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad
 - Abdul Wali Khan University Mardan.
 - International Center for Chemical and Biological Sciences, University of Karachi
- **Foreign Linkages**
- Wilmer Ophthalmology Institute, The Johns Hopkins University, School of Medicine Baltimore, MD. USA.
 - National Institute of Health, Rockville, USA
 - Laboratory of Molecular Genetics, Department of Otorhinolaryngology Head & Neck Surgery, University of Maryland, School of Medicine, Baltimore, USA.
 - University of Miami Miller School of Medicine, RMSB 1129, 1600 NW 10th Avenue, Miami, FL 33136, USA.
 - Agricultural Research Service, USDA, Baltimore Ave, Beltsville, MD USA
 - LifeSensors Inc. 271 Great Valley Parkway, Suite 100, Malvern, PA 19355 USA.
 - Department of Human Genetics, Radboud University Nijmegen Medical, Netherland
 - Korean Bioinformatics Centre, South Korea
 - Personal Genomics Institute, South Korea
 - Genome Research Foundation, South Korea
 - Whitehead Institute for Biomedical Research, Five Cambridge Centre, Cambridge, MA 02142. USA.



○ **Funding Grants for R&D**

| Sr. # | Project | Sponsoring Agency | Funding Million Rs. |
|-------|---|-------------------|---------------------|
| 1 | Studies on Streamlined Molecular Approaches to Hepatitis C Implications for Patient management and Public Health | HEC | 4,520,288 |
| 2 | Exploitation of Strategies to augment the therapeutic Properties of Stem Cells for the treatment of Damaged Skin | HEC | 3,557,689 |
| 3 | Efficacy of Combination of <i>Antioxidants</i> in Protecting MSCs against oxidative stress conditions. | HEC | 499,630 |
| 4 | Genetic improvement of Potato against cold induced sweetening through integration of anti-sweetening gene (s) | HEC | 8,192,910 |
| 5 | Human Epidermal Growth Factors (RHEGF) production from in-house Developed Recombinant Strain | HEC | 4,252,102 |
| 6 | Screening of Cycleopeptides as Anti-HCV Therapy | HEC | 325,000 |
| 7 | Development of Albumin Fusion Technology for Potent Long Lasting Consensus Interferon (IFN CON-1) | HEC | 3,531,240 |
| 8 | Identification and Characterization of Genes Responsible for Hearing Impairment in Pakistani Population | HEC | 8,405,412 |
| 9 | Role of Inc RNA in Metastatic Ability of Invasive Breast Cancer | HEC | 490,000 |
| 10 | Identification of Molecular factor required for Regeneration of Cotton | HEC | 7,112,025 |
| 11 | Robust Production of Recombinant Collagen & Elastin Proteins in Serum-Free adapted 293T cell line using Ubiquitous Chromatin Opening Elements Containing Lentiviral vectors | HEC | 4,195,324 |
| 12 | To Investigate the genetic Basis of Retinitis Pigmentosa | HEC | 6,521,880 |
| 13 | The Development of Oligonucleotide Microarray and its use in the Analysis of Abiotic Stress | HEC | 6,445,842 |
| 14 | Transformation of BT Cotton with Transcription factor Gene of Gossypium Arboreum to Enhance Drought Tolerance | HEC | 2,776,100 |
| 15 | Identification and Isolation of Wax Genes from Local Cultivars of Gossypium Arboreum to Breed CLCuV Tolerance Resistance in G.Hirsutum | HEC | 6,497,500 |



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|----|---|------------------------------|--------------|
| 16 | Identification and Transcriptome Profiling of Vovel MicroRNAs in Hepatitis C Virus Induced Liver Diseases by Next Generation Sequencing of Small RNA cDNA Libraries | HEC | 3,019,210 |
| 17 | Laboratory Bioassays of Maize Stem Borer for Determination of Efficacy of BT Proteins | (Pioneer Project) | 50,000 US \$ |
| 18 | Transformation of Cotton (<i>Gossypiumhirsutum</i>) for Stacked-Gene Expression (<i>Four Brothers Seeds</i>) | Admin /418/2015 (06.10.2015) | 4,470,000 |
| 19 | An Alternative Approach to Combat Pink Bollworm <i>Infestation in Cotton</i> | HEC | 4,586,499 |

DEPARTMENT OF BOTANY

○ Research and Development

- Thirty nine research theses were completed and added to library during this year by the M.Sc, MS, and M.Phil students.
- The Molecular Genetics Research Laboratory was renovated. The Chairperson's office, Committee Room, Class Rooms, Wash Rooms and Faculty lounge were renovated. Multimedia were added to all class rooms. Major development were made in the Botanical Garden. A Herbal Garden and Cactus Garden were added, Basic equipments like pH meters and electrical balances were added to the general laboratories.

○ Projects:

Completed (duration, sponsoring agency, funding)

| Sr. No. | Researchers | Duration | Financial Support (Rs.) | Sponsoring Agency |
|---------|---|-----------|-------------------------|----------------------------------|
| 1. | Dr. Firdaus-e-Bareen Professor / Chairperson | 2017-2018 | 250000 | University of the Punjab, Lahore |
| 2. | Dr. Muhammad Saleem Professor | 2017-2018 | 250000 | University of the Punjab, Lahore |
| 3. | Dr. Faheem Aftab Professor | 2017-2018 | 250000 | University of the Punjab, Lahore |
| 4. | Dr. Abdul Nasir Khalid Professor | 2017-2018 | 250000 | University of the Punjab, Lahore |
| 5. | Dr. Shakil Ahmed Associate Professor | 2017-2018 | 200000 | University of the Punjab, Lahore |
| 6. | Dr. Farkhanda Jabeen Assistant Professor | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 7. | Dr. Farhat Rass Masood Assistant Professor | 2017-2018 | 150000 | University of the Punjab, Lahore |



| | | | | |
|-----|--|-----------|--------|----------------------------------|
| 8. | Dr. Ambreen Ahmed Assistant Professor | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 9. | Dr. Asma Zulfiqar Assistant Professor | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 10. | Dr. Atif Kamran Assistant Professor (Adhoc) | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 11. | Dr. Abdul Rehman Khan Niazi Assistant Professor (Adhoc) | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 12. | Dr. Sheza Ayaz Khilji Assistant Professor (on contract) | 2017-2018 | 150000 | University of the Punjab, Lahore |
| 13. | Dr. Syeda Aisha Nazir Assistant Professor (on contract) | 2017-2018 | 150000 | University of the Punjab, Lahore |

○ **Newly launched:**

Thirteen faculty members applied for newly launched projects funded by the University of the Punjab, Lahore for this year.

○ **Conferences, Seminars and Workshops, etc.** (Sponsors, Oral Presentation+Poster Presentation)
Organized

- Organized the Workshop on Innovative Ideas in Kitchen Gardening and Mushroom Cultivation on October 4, 2017 held in the Botanical Garden, University of the Punjab, Lahore
- Organized the Pre-Conference Workshops on Use of Molecular techniques for Naming of Fungi and Atomic Absorption Spectrophotometry and Heavy Metal Analysis held on November 27, 2017 at Department of Botany, University of the Punjab, Lahore
- Organized the First International Conference on Conventional and Modern Approaches in Plant Sciences (CMAPS 17), held on November 28-29, 2017 at Department of Botany, University of the Punjab, Lahore
- A seminar by Prof. Dr. Khalid Hamid Sheikh was organized on “Dept. of Botany, PU, Lahore: A Historical Perspective” on October 25, 2017
- A seminar by Prof. Dr. S.R.A. Shamsi was organized on “Smog: origin, nature and Impact” on January 25, 2018
- A seminar By Prof. Dr. Javed Iqbal was organized on “Towards two decades of Plant Biotechnology (1995-2015): Successes, Failures and Prospects” on February 13, 2018.
- A seminar on “Traffic Awareness” by the Motorway Police Department was organized on April 4, 2018.

Conferences Attended

Prof. Dr. Firdaus-e-Bareen

- Attended the 3rd International Conference on Bio Sciences 2018 held on 9-11 May, 2018 at GCU, Lahore and delivered the lead lecture on “Crop and weed biomass for exigent soil organic matter in rice-wheat system”



- Chaired the technical session of Environmental Microbiology in the Conference on Microbiology and Molecular Genetics 2018, held on February 7-9, 2018 and delivered a keynote lecture on “Forlorn calls to Pakistan for composting: a thus far unachievable ideal”

Oral Presentations

- Iqbal, F. Bareen, F. Nazir, A. and Maqbool, T. Characterization of tannery solid waste biochar and its effects on *Helianthus annuus*. In: International conference on conventional and modern approaches in Plant Sciences, Dept. of Botany, University of the Punjab, Lahore in November 28-29, 2017.
- Bareen, F. Rafiq, A. and Nazir, A. Uptake and leaching of Cu, Cd and Cr after EDTA application in sorghum and pearl millet. In: International conference on conventional and modern approaches in Plant Sciences, Dept. of Botany, University of the Punjab, Lahore in November 28-29, 2017.
- Shad, S. Nazir, A and Bareen, F. Effect of EDTA in phytoextraction of different heavy metals in hydrponically grown sunflower. In: International conference on conventional and modern approaches in Plant Sciences, Dept. of Botany, University of the Punjab, Lahore in November 28-29, 2017.
- Shakeel, S. Nazir, A. Bareen, F. and Ahmad, S.R. Characterization of tannery wastewater during tanning process and after treatment at KTWMA, Kasur. In: International conference on conventional and modern approaches in Plant Sciences, Dept. of Botany, University of the Punjab, Lahore in November 28-29, 2017.
- Qurat-ul-Ain, Bareen, F. Shafiq, M. and Capareda, S. C. Effect of temperature on physico-chemical properties of biochar prepared from *Parthenium hysterophorus* and its use as soil amendment. In: International conference on conventional and modern approaches in Plant Sciences, Dept. of Botany, University of the Punjab, Lahore in November 28-29, 2017.
- Conference on “New trends in natural sciences from basics to applied” (25-27th Oct, 2017) organized by Biotechnology Department, LCWU
- 1st international conference on "Conventional and modern approaches in plant sciences" CMAPS-17 (28-29th Nov, 2017) Botany Dept., PU
- International Conference on solid state physics (ICSSP'15) (11-14th Dec, 2017), Centre of excellence in solid state physics, University of the Punjab
- 4th Conference on Frontiers of Nanoscience and Nanotechnology (12-13th Dec, 2017) PINSTECH, Nelore, Islamabad

○ Research Journals

Prof. Dr. Firdaus-e-Bareen

- Siddique, S., Perveen, Z., Bareen, F., Mazhar, S. Chaudhary, M.N. Mazhar, S. and Nawaz, S. (2017). The essential oil of *Melaleuca armillaris* (Sol. ex Gaertn.) Sm. leaves from Pakistan: A potential source of eugenol methyl ether. *Industrial Crops and Products*, 109: 912-917. (2017) (I.F. 3.849)



- Siddique, S., Perveen, Z. and Bareen, F. (2017). Chemical composition, antioxidant and antimicrobial activities of essential oil from *Callistemon viminalis* (Gaertn.) G. Don leaves. *Journal of Essential Oil Bearing Plants*. (IF: 0.493)
- Shafiq, M., Shoukat, T., Nazir, A. and Bareen, F. (2017) Modeling of Cr contamination in the agricultural lands of three villages near the leather industry in Kasur, Pakistan, using statistical and GIS techniques. *Environmental Monitoring and Assessment* 189: 423. (I.F. 1.804)
- Siddique, S., Parveen, Z., Bareen, F., Butt, A. and Chaudhry, M.N. (2017). Chemical composition and insecticidal activities of essential oils of Myrtaceae against *Tribolium castaneum* (Coleoptera: Tenebrionidae). *Polish Journal of Environmental Studies*, 26: 1653-1662 (I.F. 1.120)
- Bareen, F. Saeed, S and Afrasiab, H. (2017). Differential mobilization and metal uptake versus leaching in multi-metal soil columns using EDTA and three metal bioaccumulators. *International Journal of Phytoremediation*, 19: 1109-1117. (I.F. 1.886)
- Siddique, S., Perveen, Z., Bareen, F. and Mazhar, S. (2017). Chemical Composition, antibacterial and antioxidant activities of essential oils from leaves of three *Melaleuca* species of Pakistani flora. *Arabian Journal of Chemistry*. <https://doi.org/10.1016/j.arabjc.2017.01.018> (I.F. 2.969)
- Siddique, S., Perveen, Z., Bareen, F., Chaudhry, M.N. and Saeed, K. (2017). Chemical composition, antioxidant and antimicrobial activities of essential oil from *Callistemon viminalis* (Gaertn.) G. Don leaves. *Journal of Essential Oil-Bearing Plants*, 20: 524-534. (I.F. 0.681).
- Sabir, A.A., Bareen, F., Rahman, Z., Ahmad, S.R. and Shafiq, M. (2018) In vitro response of *Bougainvillea* explants and their antioxidant enzymatic activities treated with new naphthyl acetic acid based synthetic plant growth promoters. *Polish Journal of Environmental Studies*. 27: 1-10. (I.F. 1.120)
- Siddique, S., Perveen, Z., Bareen, F., Mazhar, S. and Chaudhary, M.N. (2018) Antibacterial and antioxidant activities of leaves essential oils of seven *Eucalyptus* species grown in Pakistan. *The Journal of Animal and Plant Sciences*, 28: 222-230 (I.F. 0.422)

Prof. Dr. Muhammad Saleem

- Saleem, M., Arif R., Faiza Akram, Tazeen Jamil, Hamid Mukhtar, Siu Fai Lee, (2017). Genetic Variation and Its Reflection on Posttranslational Modifications in Frequency Clock and Mating Type a-1 Proteins in *Sordaria fimicola*. *Bio. Med Research International*. Vol: 2017. IF: 2.478
- Saleem, M., Ishfaq, M., Mahmood N., Nasir I.A. (2017). Biochemical and molecular analysis of superoxide dismutase in *Sordaria fimicola* and *Aspergillus niger* collected from different environments. *Polish Journal of Environmental Studies*. Vol: 26(1): 115-125 IF: 0.790



- Saleem, M. Ishfaq, M., N. Mahmood, I.A. Nasir. (2017). Biochemical and Molecular analysis of Laccase Enzyme in Saprobic fungi; *Sordaria fimicola* (Roberge ex Desm.) Ces. & De Not. International Journal of Agriculture and Biology. Vol: 19: 204-210. IF: 0.758
- Saleem, M., Ishfaq, M., Mahmood N., Nasir I.A (2017). Report on biochemical and molecular characterization of catalase enzyme in Saprobic fungi; *Sordaria fimicola*. Pakistan Journal of Pharmaceutical Sciences. IF: 0.682
- Saleem, M., Arif R., S.F. Lee (2017). Evaluating Short Sequence Repeat Markers in *S. fimicola* by High Resolution Melt Analysis. International Journal of Agriculture and Biology. Vol: 19: 248-254. IF: 0.758.
- Saleem, M., Rabia Arif, (2017). Isolation of Coprophilous fungus *Sordaria fimicola* from different areas of Lahore Pakistan, and Molecular Characterization by ITS and RAPD SCAR PCR. International Journal of Agriculture and Biology. Vol: 19: 259-265. IF: 0.758.
- Jamil T., Sami N., Arif R., Rashid Q., and Saleem M. (2018). H3/H4 histone genes variations and its effect on post translational modifications in various strains of *Sordaria fimicola*. International Journal of Agriculture and Biology (I.F. 0.869)
- Jawaria Rana, Rabia Arif, Muhammad Ishfaq, Siu Fai Lee, Muhammad Saleem (2018). Amplification and posttranslational modification study of manganese superoxide dismutase gene in *Sordaria fimicola*. International Journal of Agriculture and Biology (I.F. 0.869)

Prof. Dr. Faheem Aftab

- Akram, M. and Aftab, F. (2017). Somatic embryogenesis and plant regeneration from calluses derived from shoot-tips of forced softwood shoots of teak (*Tectona grandis* L. f.). Horticultural Plant Journal 2: 293-301.
- Sadiq , M, Shehzad, A, Fayyaz, M, Ali, GM and Aftab, F. (2017). Seedling and durable resistance to stripe rust in two segregating wheat populations. International Journal Biosci. 11, 231-237.
- Rizwan, S and Aftab, F. (2018). Effect of different pretreatments on breaking seed dormancy and *in vitro* germination in *Jatropha curcas* L. Pakistan Journal of Botany. 50(2), Mans. Nr. 13-061. Accepted. (I.F. 0.750)
- Rizwan, S and Aftab, F. (2018). Morphological and biochemical responses of *Jatropha curcas* under water stress. International Journal of Agriculture and Biology. Accepted and published online. DOI: 10.17957/IJAB/15.0711 (I.F. 0.869)
- Akram M and Aftab F. (2018) Effect of Osmoticum and Silica-gel desiccation on Somatic embryogenesis from callus cultures of *Bignonia adenophylla* D. C. 2018. Proceedings of the IX International Agricultural Symposium "Agrosym 2018". Jahorina, October 04-07, 2018. Pp: 246-252.

Prof. Dr. Abdul Nasir Khalid

- Khan, J., Sher, H., Naseer, A. and Khalid, A. N. (2017). *Descolea quercina* (Bolbitaceae), a new species from moist temperate forests in Pakistan. *MycKeys*. 27: 65-76



- Ishaq, A., Afshan, N. S. and Khalid, A. N. (2017). First report of the uredinial and telial states of *Puccinia heraclei* in Pakistan. *Journal of Plant Pathology* 99 (3): 799-817
- Ishaq, A., Afshan, N. S. Niazi, A. R., Aime, M. C. and Khalid, A. N. (2017). First Report of Rust caused by *Pucciniastrum guttatum* on *Galium* sp. from Pakistan. *Plant Disease* 101(1): 245.
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Dr. Shakil Ahmed

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Dr. Humera Afrasiab

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Dr. Farkhanda Jabeen

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- Hadia F. and Ahmed A. (2018). Micro-remediation of chromium contaminated soils. *Peer J*. DOI: 10.7717/peerj.6076 (IF: 2.118)
- Iqbal M., Wagi S. and Ahmed A. (2018). Phyllospheric bacterial treatments improve growth in *Helianthus annuus* L. *RADS Journal of Biological Research and Applied Sciences*. 9 (1): 35-40
- Habib S. and Ahmed A. (2018). Quantification of Viable Bacteria in Bacterial Cultures. *CPQ Microbiology*. 1(5), 01-12.
- Dr. Atif Kamran
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Dr. Abdul Rehman Khan Niazi

- Rehman, S., Andleeb, S., Niazi, A. R., & Ali, S., (2018). Estimation of trace elements and *in vitro* biological activities of lichens extract. *Pakistan Journal of Pharmaceutical Society* 31(4): 1407-1416 (IF. 0.804)



RESEARCH COLLABORATION

○ **Indigenous**

Prof. Dr. Muhammad Saleem

- Dr. Habib Ullah at LUMS
- Dr. Shaukat at PCSIR, Lahore.

Prof. Dr. Faheem Aftab

- Dr. Uzma Qaisar SBS

Dr. Abdul Nasir Khalid

- Dr. Habib Ahmed (Hazara University, Mansehra)
- Dr. Muhammad Fiaz (Hazara University, Mansehra)
- Dr. Shah Hussain & Dr. Hassan Sheer University of Swat.
- Dr. Zafar Iqbal (University of the Punjab, Lahore)
- Dr. Abdul Rehman Khan Niazi, University of the Punjab, Lahore
- Dr. Najamul Sehar Afshan, University of the Punjab, Lahore.
- Dr. Muhammad Hanif, Govt. College University, Lahore.
- Dr. Samina Sarwar, Lahore College for Women University, Lahore.

Dr. Abdul Rehman Niazi

- Prof. Dr. Habib Ahmad, Hazara University, Mansehra, KPK. Pakistan.
- Dr Shaukat Bhatti, University of Azad Jammu and Kashmir.
- Prof. Dr. Shamshad, Institute of Chemistry, University of Punjab, Lahore.
- Dr. Hanif Ahmad, Govt. College University, Lahore.
- Dr. Samina, Lahore College for Women University, Lahore.

○ **Foreign Linkages**

Professor Dr. M. Saleem

- Prof. Nevo and Dr. Bernard Lamb, Imperial College, UK.

Dr. Abdul Nasir Khalid

- Dr. Reinhard Berndt (ETH, Switzerland)
- Dr. Cvetomir M. Denchev, Bulgaria
- Prof. Dr. Zhu L. Yang, China
- Dr. Jacques Guinberteau, France
- Dr. Moreno, G. (Spain)
- Dr. Kreisel, H. (Germany)
- Dr. Bryn Masson Dentinger (Royal Botanical Garden, Kew, UK)
- Dr. Donald Fister (Havard University, USA)
- Dr. Tom D. Bruns (University of California, USA)

Dr. Abdul Rehman Khan Niazi

- Dr. Rodham E Tulloss, New Jersey, USA.
- Prof. Dr. Zhu L. Yang, China.



- Dr. Alejandra Becerra, Argentina.
- Dr. Xavier Parlade, Spain.
- Dr. Slavomir Adamcik, Czech.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

○ R&D-An Overview

Established in 2002, in University of the Punjab, Department of Microbiology and Molecular Genetics, has emerged as one of the leading department in the university. The department has well equipped research labs and basic facility for Microbiology and Molecular Genetics related research. Currently there are 26 faculty members among them 22 are PhDs and are running their independent research groups. The main research areas are Human Genetics, Bacterial Biofilms, Environmental Microbiology, Metal Detoxification and Water Treatment, Agricultural Microbiology, Agricultural biotechnology, Plant Microbial Interactions, Biofertilizers, Biopesticides, Microbial Ecology, Microbial Diversity, Bioplastics, Industrial Microbiology, Drugs Discovery, Immunology, Medical Microbiology, bacteriophage therapy, anaerobic bacteriology, biodiesel and biofuels, Cancer Metabolism/Therapy, and Bioinformatics. There are 70 PhD students at the department, and annually about >50 research papers in impact factor internationally reputed journals are published. Department has organized >13 workshop, seminars and conferences.

○ Projects: Completed

- Research Project entitled Ecofriendly synthesis and characterization of silver nanoparticles using spices, fruits and bacteria: *In vitro* growth enhancement effects on *solanum tuberosum*, 2017-2018, University of the Punjab, Rs 250,000/-. PI: Dr Anjum Nasim Sabri
- Research Project entitled Cloning of shRNA oligos against Dpp6 gene in lentiviral vector (pLL3.7) to be used for targeting colon cancer cells, 2017-2018, University of the Punjab, Rs 150,000/- CO-PI: Dr Anjum Nasim Sabri; PI: Dr Yousra
- Research Project entitled, Cytotoxic effects of lentiviral particles expression FASN and HKGCOA reductase gene for targeting liver cancer cells HepG2, 2017-2018, University of the Punjab, Rs 150,000/- CO-PI: Dr Anjum Nasim Sabri; PI: Dr Abid Sheikh
- Research Project entitled, Analysis of Saline Soil Bacteria Through Metagenomic and Culture Dependent Techniques, 2017-2018, University of the Punjab, Rs 150,000/- CO-PI: Dr Anjum Nasim Sabri; PI: Dr. Yasir Rehman
- Research Project entitled, A green synthetic approach to synthesize gold nanostructures using plant and bacteria, their characterization and toxicity studies, 2017-2018, University of the Punjab, Rs 1,25,000. CO-PI: Dr Anjum Nasim Sabri; PI: Ms Hera Naheed Khan



- Research Project entitled, “Analysis of bacterial bioaerosols in different indoor microenvironments”, 2017-2018, University of the Punjab, Lahore, Pak Rs. 0.25 million. PI: Dr Sikander Sultan
- Research Project entitled, Oil degradation potential of bacterial strains from indigenous environment, 2017-2018, University of the Punjab, Rs 150,000/- PI: Dr Muhammad Faisal
- Research Project entitled, Molecular characterization of MRSA isolated from tracheal tubes: their biofilm formation and control. 2017-2018, University of the Punjab, Rs 200,000/-, PI: Dr Zakia Latif
- Research Project entitled, Analysis of Fresh water for bacteria accumulating Biodegradable plastic, 2017-2018, University of the Punjab, Rs 150,000/-PI: Dr. Nazia Jamil.
- Research Project entitled, Phylogenetic diversity and biofilm formation of bacterial communities associated with drinking water distribution system, 2017-2018, University of the Punjab, Rs 150,000/-, PI: Dr. Basharat Ali
- Research Project entitled, “In-house establishment of SRB (Sulforhodamin B) Bioassay for the *in-vitro* antitumor activity screening of natural compounds”, 2017-2018, University of the Punjab, PKR. 150,000-, PI: Dr. Imran Sajid
- Research Project entitled, “Development of rapid diagnostic technique for multidrug resistant bacteria, 2017-2018, University of the Punjab, Rs 150,000/- PI: Saba Riaz
- Research Project entitled, “Studies of Cyanobacterial Biodeterioration of Archeological Sites in Lahore”, 2017-2018, University of the Punjab, Rs 150,000/-, PI: Dr Mehboob Ahmed
- Research Project entitled, “Analysis of phytochemical constituents, antioxidant and antibacterial activities in *Achillea millefolium*, *Sisymbrium irio* and *Viola canescens* from AJK”. 2017-2018, University of the Punjab, Rs 150,000/-, PI: Dr Rida Batool
- Research Project entitled, Beneficial Effects of Olive Oil in the Cholesterol level on the Patients suffering diabetes Mellitus, 2017-2018, University of the Punjab, Rs 150,000/-, PI: Dr Samreen Riaz
- Research Project entitled, Analysis of rs5918 polymorphism in Integrin beta 3 (ITGB3) gene and serum biochemical traits with the risk of coronary artery disease in the Pakistani subjects, 2017-2018, University of the Punjab, Rs 150,000/-, PI: Dr. Shabana
- Research Project entitled, Association analysis of homologous DNA repair complex genes and breast cancer, 2017-2018, University of the Punjab, Rs 125,000/-, PI: Dr Warda Fatima
- Research Project entitled, Antioxidant and Hypoglycemic effect of Coumarins derivatives in streptozotocin induced diabetic mice,. 2017-2018, University of the Punjab Lahore, Rs. 1,50,000/- PI: Dr Zaigham Abbas
- Research Project entitled, Cloning, expression and characterization of virolysin genes of bacteriophages against *Pseudomonas aeruginosa*, 2017-2018, University of the Punjab Lahore, Rs. 1,50,000/- PI: Dr Shafiq ur Rehman
- Research Project entitled, Effect of diet on lipid-deposition in circulating peripheral blood mononuclear cells, 2017-2018, University of the Punjab Lahore, Rs. 1,50,000/- PI: Dr. Nousheen Zaidi



- Research Project entitled, Correlation of *SDF1-3A* gene mutation with increased susceptibility to HIV Type 1 Infection in Pakistani population (2017-2018). University of the Punjab, Rs. 1,50,000/- PI: Dr. Nageen Hussain
- Research Project entitled, Screening of *PCDH19* gene for Mutations and SNPs in association with Dravet syndrome, 2017-2018, University of the Punjab Lahore, Rs. 1,50,000/- PI: Dr. Saira Malik
- **Projects:** Newly launched
 - HEC NRPU Research Project entitled Isolation, Purification and Characterization of Novel Peptides from Common Aero-allergens encountered in Pakistan and their Association with Immuno-genetic Factors of Allergy Patients, Rs 4,300,450/- PI: Dr. Zaigham Abbass; Co-PI: Dr. Shafiq ur Rehman
 - HEC NRPU Research Project entitled, Preclinical Studies of Acetylcholinesterase Inhibitors: A Common Treatment to Various Neuronal Disorders, Rs 6,047,020/- PI: Dr Shahida Hasnain; Co-PI: Dr Mehboob Ahmed
 - HEC Research Project entitled, Potential role of Staphylococcal Penicillin binding proteins (BPB) in cross reactivity with murine cytokine assay, Rs 452,800 PI: Dr. Numan Javed; Co-PI: Dr. Zaigham Abbas
 - HEC Research Project entitled, Removal of Cr (VI) from aqueous solution through chemically modified and bacterial coated rice husk and wheat bran. Rs 4,363,813. PI: Dr Rida Batool, Co-PI: Dr. Nazia Jamil
 - HEC Research Project entitled, Conversion of organic waste water into Bioplastic using Bacteria: Fermenter Scale. Rs 3,546,367 . PI: Dr Nazia Jamil, Co-PI: Dr. Rida Batool
 - HEC NRPU Research Project entitled, Assessment of Cyanobacterial Toxins in Reservoirs and Drinking Water Facilities Throughout Pakistan, Rs 60,35,324/- PI: Dr Mehboob Ahmed
- **Publications**

Research Articles

 - Saba, Andreasen, R., Li, Y., Rehman, Y., Ahmed, M., Meyer, R.L. and Sabri, A.N. Prospective role of indigenous *Exiguobacterium profundum* PT2 in arsenic biotransformation and biosorption by planktonic cultures and biofilms. *Journal of Applied Microbiology*. 124(2): 431-443.
 - Fakhar, M., and Sabri, A.N. Alleviation of nickel stress by halophilic bacteria in Mungbean (*Vigna radiata*). *Chinese Journal of Applied and Environmental Biology*. 24(3):465-469 (China)
 - Hayat, S., Muzammil, S., Rasool, M.H., Nisar, Z., Hussain, S.Z., Sabri, A.N., Jamil, S. In vitro antibiofilm and antiadhesion effects of magnesium oxide nanoparticles against antibiotic resistant bacteria. *Microbiology and Immunology*. 62(4):211-220.
 - Sarwar, A., Latif, Z., Cabaleiro, C. First report of *Streptomyces turgidiscabies* causing potato common scab in Spain. *Plant Disease*. 101(9): 1671



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- Amin, A., Latif, Z. Cloning, expression, isotope labelling, and purification of transmembrane protein MerF from mercury resistant *Enterobacter* sp. AZ-15 for NMR studies. *Frontiers in Microbiology*. 2017 (7);8:1250.
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- Khan, WA., Yasin, NA., Ahmad, SR., Ali, A., Ahmad, A., Faisal, M. Role of *Burkholderia cepacia* CS8 in Cd-stress alleviation and phytoremediation by *Catharanthus roseus*. *International Journal of Phytoremediation*. 20(6):581-592.
- Khan, Z., Rehman, A., Nisar, M.A., Zafar, S., Hussain, S.Z., Zerr, I., Hussain, I., Waseem, M. and Arif, M. Molecular basis of Cd²⁺ stress response in *Candida tropicalis* *Applied Microbiology and Biotechnology*. 101 (20): 7715-7728
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- Imtiaz, A. and Rehman, A. *Bacillus subtilis* BML5 isolated from soil contaminated with poultry waste has keratinolytic activity. *Pakistan journal of Zoology*. 50(1): 143-148.
- Ilyas, S., Rehman, A. Metal resistance and uptake by *Trichosporon asahii* and *Pichia kudriavzevii* isolated from industrial effluents. *Applied Microbiology and Biotechnology*. *Archives of Environmental Protection*. 44(3):77-84
- Ali, I., Jamil, N. Biosynthesis and Characterization of Poly(3-hydroxyalkanoate) (PHA) from Newly Isolated Bacterium *Bacillus* sp. AZR-1. *Iranian Journal of Science and Technology, Transactions A: Science*. 42:371–378.
- Sadiq, H., Jamil, N. Antagonistic behaviour of organic compounds from *Bacillus* species and *Brevundimonas* specie. *Pakistan Journal of Pharmaceutical Sciences*. 31, 3 919-926.
- Munir, S., Jamil, N. Polyhydroxyalkanoates (PHA) production in bacterial co-culture using glucose and volatile fatty acids as carbon source. *Journal of Basic Microbiology*. 58(3):247-254.
- Naeem, T., Khan, N., Jamil, N. Synthesis of scl-poly (3-hydroxyalkanoates) by *Bacillus cereus* found in freshwater, from monosaccharides and disaccharides. *Frontiers in Biology*: 13, :63–69
- Jabeen, H., Jamil, N. Responses of Bacteria from Urban and Desert Soil for Bioplastic accumulation. *Punjab University Journal of Zoology*. 33(1): 7-10.



- Uzair, B., Atlas, N., Batool, S., Malik, S., Jamil, N. Salaam Temitope Ojuolape, Mujaddadur Rehman, Barkat Ali Khan. Snake Venom as an Effective Tool against Colorectal Cancer. Protein & Peptide Letters. 25, (7)626-632.
- Ikram, R. and Ali, B. Co-inoculation of auxin producing PGPR and rhizobia enhanced growth of *Vigna mungo* (L.) under cadmium stress. Asian Journal of Agriculture and Biology, 6(1): 46-54.
- Aslam ,F. and Ali, B. Halotolerant bacterial diversity associated with *Suaeda fruticosa* (L.) Forssk. improved growth of Maize under salinity stress. Agronomy. 8: 131
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- **Book / Book Chapters**
 - Siddiqua, A., Faisal, M. 2018. Phytoremediation of chromium polluted soil using plants in conjunction with microbes. In: *Phytoremediation: Management of Environmental Contaminants Vol-6* by Ansari et al. pp 215-231. Springer. DOI: 10.1007/978-3-319-99651-6
 - Khan, H. N., Faisal, M. 2018. Phytoremediation of industrial wastewater by hydrophytes. In: *Phytoremediation: Management of Environmental Contaminants Vol-6* by Ansari et al. pp. 179-200. Springer. DOI: 10.1007/978-3-319-99651-6
 - Hassan, H., Sajid, I. 2017. Antimicrobial natural products II - Terrestrial and marine organisms, In: *Antimicrobial Research: Novel Bio Knowledge and Educational Program* (A. Mendez-Vilas, Ed.) Formatex. Pp 96-107.
 - Riaz, S., Abrar, S., Ain, N., Rasheed F, Haider H, Carbapenemases: A Threat to the Globe. Create Space, USA, Amazon. ISBN-13: 978-1981460021, 2017.
 - Hussain, N., Dastgir, K. 2018. DNase I gene and Type 2 Diabetes mellitus: A family based study. Lambert ISBN (978-613-9-58554-0).
 - Riaz, S. Biomolecular Analysis of serum Albumin and Microalbuminuria in the Diabetic patients of Punjab University Premises. *Top ten Contributors on Diabetes*. Chapter 6. Avid Science Publishers. Pp 1-18.
- **Conferences, Seminars and Workshops, etc.**
 - Prof. Dr. Anjum Nasim Sabri Organized Preconference workshop on “Choose The Right Tool for Bacterial Identification, held on 1st February 2018 in collaboration with Musaji Adam & Sonsat organized by MMG
 - Prof. Dr. Anjum Nasim Sabri Organized and attended and presented paper in conference on Microbiology and Molecular Genetics, held on 7-9 February 2018 organized in MMG
 - Prof. Dr. Anjum Nasim Sabri Organized One day intensive workshop on “Craft of Scientific Writings and Publications, held on 15th March 2018, organized in MMG



- Prof. Dr. Anjum Nasim Sabri Organized Workshop on Cell Culture Practices and Applications. 25th October 2018. organized in MMG
- Prof. Dr. Anjum Nasim Sabri Organized International Women Day, held on 8th march 2018 organized by MMG.
- Prof. Dr. Anjum Nasim Sabri Organized Development of Rapid Strip Assay for Typhoid, Dengue and Malaria held on 7-8 march 2018 organized by
- Prof. Dr. Anjum Nasim Sabri Organized Seminar on discovery and utilization of pharmaceutical microorganism and drugs from special environment by Prof Dr Chenghaung sun IBM, OPUMC, , CASM, organized by MMG
- Prof. Dr. Anjum Nasim Sabri Invited speaker, in Medicinal Chemistry and Drug Discovery' Being Held at COMSTECH, Islamabad in collaboration with PU(October 18-19 2018)
- Prof. Dr. Anjum Nasim Sabri Invited speaker, "proposal writing and funding opportunities, new faculty orientation program, organized by IAS, PU.
- Prof. Dr. Sikander Sultan Attended One day Seminar on Technology Development Funds (TDF) on 26th October 2017 at Punjab University Law College organized by HEC and ORIC, University of the Punjab, Lahore.
- Prof. Dr. Sikander Sultan Attended One day Seminar and Awareness Walk on Anti-Corruption on 23 November, 2017 at Al Razi Hall, University of the Punjab, Lahore organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore in collaboration with National Accountability Bureau (NAB).
- Prof. Dr. Sikander Sultan Attended International Conference on Microbiology and Molecular Genetics (MMG2018), organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore in collaboration with Superior University, Lahore, 7-9 February, 2018.
- Prof. Dr. Sikander Sultan Member Organizing Committee International Conference on Microbiology and Molecular Genetics (MMG2018), organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore in collaboration with Superior University, Lahore, 7-9 February, 2018.
- Prof. Dr. Sikander Sultan Attended One Day Seminar on "HEC Research Projects under Technology Development Fund (TDF)" organized by ORIC, University of the Punjab, Lahore, on August 10, 2018.
- Prof. Dr. Muhammad Faisal, Member Organizing committee MMG2018, held on 7-9 February, 2018 in the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
- Prof. Dr. Muhammad Faisal Participated in 7th Innovation Summit 2018 in the undergraduate block, university of the Punjab, Lahore on March 7 and 8, 2018.
- Dr. Zakia Latif organized seminar on "Molecular mechanism governing metal transport and it implications for crop improvement" on 24th Oct 2017 delivered by Dr. Khurram Bashir from Plant Genomics Network Research Team, Center for Sustainable Resource Science, Riken Yokohama Campus, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama City, Kanagawa, 230-0045, Japan in the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore



- Dr. Zakia Latif organized International women's day on 8th March 2018 at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore.
- Dr. Zakia Latif organized World health Day on 6th April 2018 at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore.
- Dr. Zakia Latif organized World Environment Day on 5th June 2018 at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore.
- Dr. Zakia Latif attended and presented paper on "Biological control of potato common scab with rare Isatropolone C compound produced by plant growth promoting *Streptomyces A1RT*" in 2nd National conference "Emerging Trends in Bioinformatics and Biosciences. The conference was organized by the Department of Bioinformatics, Hazara University Mansehra from 9th to 11th August 2018.
- Dr. Zakia Latif attended and presented poster on "Plant growth promoting parameters of isolated bacterial strains from bovine manure for sustainable vegetable farming as biofertilizer" in 2nd National conference "Emerging Trends in Bioinformatics and Biosciences. The conference was organized by the Department of Bioinformatics, Hazara University Mansehra from 9th to 11th August 2018. (2nd position)
- Dr. Abdul Rehman presented the research work in 4th International Conference on Science, Technology, Management and Humanities (ICSTMH 2017) on 2nd October –3rd October, 2017, BANGKOK, THAILAND.
- Dr. Abdul Rehman presented the research work in 4th International Conference on Health and Medicine (ICHM 2017) on 22nd December, 2017, Colombo, Sri Lanka.
- Dr. Abdul Rehman presented research work in 2nd International Conference on Innovative Biological and Public Health Research (IBPHR-2017) on December 6, 2017 held at Department of Zoology, GC University, Lahore.
- Dr. Abdul Rehman presented research work in "Conference on Microbiology" on February 7-9, 2018 held at Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
- Dr. Abdul Rehman presented research work in 38th Pakistan Congress of Zoology (International) on February 27 to March 1, 2018 held at Department of Zoology, University of the Punjab, Lahore.
- Dr. Basharat Ali presented research work titled "Bacterial auxin production: Growth and yield enhancement of *Triticum aestivum* L. under drought stress" in VIII International Agriculture Symposium (AGROSYM 2017), held from 05-08th October, 2017 on Jahorina Mountain, Bosnia and Herzegovina.
- Dr. Basharat Ali participated in International Conference on Conventional and Modern Approaches in Plant Sciences (CMAPS-2017) held at Department of Botany, University of the Punjab, Lahore from 28-29 November, 2017.
- Dr. Imran Sajid presented (Oral Presentation) in 1st International Conference on Biotechnology, Organized by Lahore Garrison University (LGU), Lahore, on 11-12, October 2017.



- Dr. Imran Sajid presented (Oral Presentation) in International Conference on “Advances in Drug Discovery” organized by AWKUM at NARC, Islamabad, on 3-5 January, 2018.
- Dr. Imran Sajid presented (Oral Presentation) in International Conference on Microbiology and Molecular Genetics (MMG 2018), organized by department of MMG, University of the Punjab, Lahore, on 7-9 February, 2018.
- Dr Shafiq ur Rehman organized three days international conference, “MMG-2018-A conference on Microbiology and Molecular Genetics” at the University of the Punjab, in collaborations with Department of Allied Health Sciences, The Superior College Lahore, on 7-9 Feb 2018.
- Dr Shafiq ur Rehman participated in four days Hands-on Workshop on “National Summer School on CRISPR-Cas9 Genome Editing” organized by Codon Corps Community Lab Rawalpindi, on 19-22 Jul 2018.
- Dr. Saba Riaz presented paper at International Annual conference on Infectious disease, organized by MMIDSP15-17 March, 2018
- Dr. Saba Riaz presented paper at Familycon International conference at 12-13 January, 2018
- Dr. Saba Riaz presented paper at International pathology conference April 2018
- Dr. Saba Riaz Organized one day workshop Right tool for bacterial identification. 1 Feb, 2018
- Dr. Saba Riaz Organized one day Awareness symposium on Thalassemia and blood donation 19 April, 2018
- Dr. Saba Riaz Organizer, presenter at A conference on Microbiology and Molecular Genetics. 7-9 Feb, 2018
- Dr. Rida Batool won best poster award entitled “Analysis of phytochemicals, antibacterial and antioxidant activities in some medicinal plants” by Rimsha Dilshad and Rida Batool in A Conference on Microbiology & Molecular Genetics (MMG 2018) organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore and Superior University Lahore from February 07-09, 2018.
- Dr. Rida Batool organized BSL-1 Design, Budget and Working: A Competition for students of Department of Microbiology and Molecular Genetics, University of the Punjab Lahore, April 26, 2018.
- Dr. Rida Batool organized The Scientific competition on Green Environment for students of Department of Microbiology and Molecular Genetics, University of the Punjab Lahore, March, 2018.
- Dr. Rida Batool organized A Conference on Microbiology & Molecular Genetics (MMG 2018) at University of the Punjab, Lahore-Pakistan organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore and Superior University Lahore from 7-9 February, 2018.
- Dr. Nageen Hussain Organize MMG 2018- A conference on Microbiology and Molecular Genetics from 7-9 February, 2018
- Dr. Nageen Hussain Organize a seminar on International women’s health day on 8th March, 2018 at MMG Department.



- Dr. Nageen Hussain did Poster presentation on the “Development of Rapid strip assay for the diagnosis of Dengue, Typhoid and Malaria” in a 7th Innovation Summit at PU-LHR from 7-8 March, 2018. (Best Poster Technology award)
- Dr Mehboob Ahmed Attended 1st International Conference on “Conventional and Modern Approaches in Plant Sciences (CMAPS2017)” organized by Department of Botany, University of the Punjab, Lahore (27-29 November 2017)
- Dr Mehboob Ahmed Attended Training Workshop on FTIR, XRD and LUMOS FTIR Microscope organized by Department of Physics, Allama Iqbal Open University, Islamabad (7-9 December 2017)
- Dr Mehboob Ahmed Presented in International Conference on Solid State Physics (ICSSP) organized by Centre for Solid State Physics, University of the Punjab, Lahore (11-14 December 2017)
- Dr Mehboob Ahmed Attended 1st International Conference on Advances in Drug Discovery and Development (ICAD3) at NARC organized by Abdul Wali Khan University, Mardan in collaboration with National Agriculture Research Council, Islamabad (3-5 January 2018)
- Dr Mehboob Ahmed Presented in 28th Annual International conference on Family Medicine-“FAMILYCON-2018” by Academy of Family Physicians Lahore Pakistan at Pearl Continental Hotel Lahore. (13th - 15th January 2018)
- Dr Mehboob Ahmed Organized Conference on Microbiology and Molecular Genetics (MMG2018), by Department of Microbiology and Molecular Genetics, University of the
- Dr Mehboob Ahmed Attended BioPrism: A Laboratory Safety Training Initiative "Advanced Biological Risk Mitigation", organized by Pakistan Biological Safety Association (PBSA), Behavioral Based Improvement Solutions (B-BIS) and Fogarty International Center, National Institutes of Health, USA in Islamabad (March 25-29, 2018)
- Dr Mehboob Ahmed Organized training workshop on Research Methodology in the Women University Multan, Multan (May 10-11, 2018)
- Dr Mehboob Ahmed Invited speaker talk in “International Meeting on Microbial Lipids and Other Bioactive Compounds (IMB2018)”, Zibo, China (August 22 - 25, 2018)
- Dr. Samreen Riaz Organized as Chief Co-coordinator/Focal Person from the University of the Punjab, Lahore for the Familycon 2018 28th Annual International Conference on Family Medicine at Pearl Continental Hotel Lahore from 12-14th January 2018.
- Dr. Samreen Riaz Organized the International level Conference on Microbiology & Molecular Genetics, in the department of Microbiology & Molecular Genetics, University of the Punjab, Lahore on 7-9 February 2018.
- Dr. Samreen Riaz Organized International women Day in the department of Microbiology & Molecular Genetics, University of the Punjab, Lahore on 8th March 2018.
- Dr. Samreen Riaz Organized One day tour to botanical garden University of the Punjab, for biodiversity of plants on 4th May Friday 2018.



- Dr. Samreen Riaz Organized One day; 'Student Counselling Seminar' in the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore On 6th April, 2018.
- Dr. Samreen Riaz attended International Conference on Health Asiam Pharma at the Expo Centre Lahore on 14-16th April ,2018.
- Dr. Samreen Riaz participated in Awareness Seminar on HEC research Projects under Technology development Funds (TDF) on 10th August 2018 by ORIC University of the Punjab, Lahore.
- Dr. Samreen Riaz as keynote speaker as Focal person in Faculty Development Training Program held on 3-7 September 2018 at University of Central Punjab, Lahore.
- Dr. Samreen Riaz as Coordinator in the inter universities poster competition on world animal day on 4th october 2018 at Zoological Gardens Lahore.
- Dr. Shabana Organized a one day symposium on 'Awareness on Thalassemia and Blood Donation' at the Department of Microbiology and Molecular Genetics, University of the Punjab on April 19, 2018.
- Dr. Shabana Organized a three day International conference on Microbiology and Molecular Genetics at the Department of Microbiology and Molecular Genetics, University of the Punjab on Feb 7-9, 2018.
- Dr. Shabana Attended a one day workshop on 'Biosafety training for Young Researchers' at the Department of Microbiology and Molecular Genetics, University of the Punjab on Nov 28, 2018.
- Dr. Shabana Attended a one day awareness seminar on 'HEC research Projects under Technology Development Fund' by the office of research innovation and commercialization, University of the Punjab on Aug 10, 2018.
- Dr. Shabana Attended a one day workshop on 'Right Tools for Bacterial Identification' at the Department of Microbiology and Molecular Genetics, University of the Punjab on Feb 01, 2018.
- Dr. Shabana Delivered an invited lecture on 'Blood donation and Safe Transfusion practices' in a two day symposium on Thalassemia prevention, Carrier screening and Blood Donation organized by Department of Botany, Women University Multan on 12-13 December, 2018.
- Dr. Shabana gave Oral presentation in the three day International conference on Microbiology and Molecular Genetics at the Department of Microbiology and Molecular Genetics, University of the Punjab on Feb 7-9, 2018.
- Dr. Shabana gave Poster presentation in 28th Annual International Conference on Family Medicine at Pearl Continental Hotel, Lahore on 12-14 January, 2018.
- Dr. Shabana gave Oral presentation in 1st International Conference on Future Medicine organized by the Sargodha Medical College at University of Sargodha, Sargodha on 5-7 January, 2018.
- Dr. Warda Fatima Organized one day symposium "Tuberculosis: Past present and future" in Department of MMG on 26th March, 2018.



- Dr. Yasir Rehman Organized “MMG2018: A Conference on Microbiology & Molecular Genetics”, as Secretary of the conference. 7-9 Feb 2018, Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore, Pakistan.
- Dr. Yasir Rehman served as a Resource person in one-day workshop on “Craft of Scientific Writing”, 15 March 2018. Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore, Pakistan.
- Muhammad Zeeshan Akbar Participate as CONFERENCE SECRETARY in 4th International Conference on Science, Technology, Management and Humanities (ICSTMH 2017) BANGKOK, THAILAND (02nd October 2017 – 03rd October 2017)
- Muhammad Zeeshan Akbar Participate as CONFERENCE SECRETARY in 5th International Conference on Science, Technology and Management (ICSTMH 2018) KUALA LUMPUR, MALAYSIA (02nd March 2018 – 03rd March 2018)
- Ms Maryam Fakhar Organized three days conference on Microbiology and Molecular Genetics (7-9th February, 2018) In collaboration with department of applied health sciences, at university of the /Punjab, Lahore
- Hera Naheed Khan Participated in Faculty Development Orientation Program from 4th-7th September 2018 organized by Human resource Development Centre at IAS, PU
- Hera Naheed Khan presented oral paper in International Conference in Solid State Physics held on 10-14 December 2017
- Hera Naheed Khan part of core organization committee of International Conference on Microbiology & Molecular Genetics 7-9 feb 2018.
- Hera Naheed Khan Attended one day workshop on Cell Culture Practices & Applications 25th October 2018
- Hera Naheed Khan Attended Pipette Clinic Workshop organized by Eco-Biosciences in collaboration with Eppendorf on 8th October 2018
- Ms Ayesha Siddiqa Presented paper at 2nd International Conference on Plant sciences (ICPS-2018) on December 5-7, 2018.
- Ms Ayesha Siddiqa Attended a workshop on cell culture practices and application, on 25th October, 2018.
- Ms Ayesha Siddiqa Attended Faculty Development Orientation Program 4-7 September, 2018
- Ms Ayesha Siddiqa Attended Pipette Clinic Workshop on 8th October, 2018
- Dr. Nousheen Zaidi organized a Workshop on Craft of Scientific Writing, Punjab University, Lahore, Feb, 2018.
- Dr. Nousheen Zaidi organized a Workshop on Cell Culture Techniques and Applications, Punjab University, Lahore, Nov, 2018.
- Dr Shafiq ur Rehman participated in four days Hands-on Workshop on “National Summer School on CRISPR-Cas9 Genome Editing” organized by Codon Corps Community Lab Rawalpindi, on 19-22 Jul 2018.



- Dr Shafiq ur Rehman participated in one day Hands-on Workshop on “Advancements in Drug Discovery and Vaccine Design” organized by Lahore University of Management Sciences (LUMS) Lahore on 19 Mar 2018.
- Dr. Nageen Hussain as Keynote speaker in Faculty development program: Ethical consideration in laboratories at UCP from 03 -07 September, 2018.
- Dr. Nageen Hussain did Poster presentation on “FOXP3 GENE AND HIV” in a Familycon 2018 conference held at PC Hotel LHR from 12-14 Jan, 2018.
- Dr. Nageen Hussain presented a poster on “An association of the GJB2 gene with hearing loss in a population of Gilgit-Baltistan, Pakistan” in FIMSA conference from 10-13 November, 2018 in Bangkok.
- Dr. Nageen Hussain attended workshop on “Recombinant Protein Production And Identification” at SBS-PU from 6-11 Nov, 2017.
- Dr. Nageen Hussain participated in a one-day workshop “Right Tools for bacterial identification” on 1st Feb, 2018.
- Dr. Nageen Hussain organize a seminar on HIV on 10th Dec, 2018 at MMG department, PU-LHR.
- Ms. Ammara Khalid Presented in 28th Annual International conference on Family Medicine-“FAMILYCON-2018” by Academy of Family Physicians Lahore Pakistan at Pearl Continental Hotel Lahore. (13th - 15th January 2018)

○ Research Journals

- Prof. Dr Anjum Nasim Sabri is member of Editorial board Science International Lahore
- Dr Zakia Latif is member of technical editorial board of journal “Advancement in Life Sciences”
- Prof. Dr. Muhammad Faisal is Member Editorial Board of Journal “*BioMed Research International*”
- Dr. Saba Riaz is member of editorial board Journal of Infection and Molecular Biology
- Dr. Saba Riaz is member of editorial board of Asian journal of medicine and biomedicine (Malaysian Journal)
- Dr. Nageen Hussain is a Co-Editor of “International Journal of Health Sciences”.
- Dr. Nageen Hussain is a WASET Scientific Committee and Editorial Review Board member.
- Dr. Nageen Hussain is a member of American chemical society.
- Dr. Nageen Hussain is a member of American Society of Microbiology.

RESEARCH COLLABORATION

○ Indigenous

- Dr Samreen Hayat, Lecturer, G C University, Faisalabad.
- COMSATS University Islamabad, Abbottabad Campus, Pakistan.
- Dr. Atiqah Ambreen, Department of Microbiology, Gulab Devi Chest Hospital Lahore.
- Dr. Rabia Tanvir, University of Veterinary and Animal Sciences, Lahore.
- Dr Atia Iqbal, Department of Microbiology and Molecular Genetics, The Women University Multan, Multan



○ Foreign Linkages

- TWAS-UNESCO Associateship Scheme at Centres of Excellence in the South. MMG Department is a part of this scheme.
- Prof. Dr. Chenghang Sun, Institute of Medicinal Biotechnology (IMB), Peking Union Medical college, Chinese Academy of Medical Sciences, Beijing China.
- Develop collaboration for PHA research with Dr. Nehal I. Abu-Lail, Associate Professor and Associate Director, Gene and Linda Voiland School of Chemical Engineering and Bioengineering, Washington State University, 118 Dana Hall Spokane Street, Pullman, WA 99164-2710, USA. Phone: 509-335-4961.
- Develop collaboration for MDR-TB research with Dr. Tomasz JAGIELSKI, Department of Applied Microbiology, Faculty of Biology, University of Warsaw, Poland.

○ Funding grants for R&D

| Sr. No. | Name | Grant | Sponsoring Agency |
|---------|---------------------------|--------------|-------------------|
| 1 | Prof. Dr. Shahida Hasnain | 6,047,020/- | HEC |
| 2 | Dr Zaigham Abbas | 4,300,450/- | HEC |
| 3 | Dr Numan Javed | 452,800/- | HEC |
| 4 | Dr Nazia Jamil | 3,546,367/- | HEC |
| 5 | Dr Rida Batool | 4,363,813/- | HEC |
| 6 | Dr Mehboob Ahmed | 6,035,324/- | HEC |
| 7 | Dr Imran Sajid | 8,900,000/- | HEC |
| 8 | Dr Basharat Ali | 3,694, 260/- | HEC |

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

○ Publications

Dr. Muhammad Zafar Iqbal Butt (Associate Professor, Chairman)

- Butt, Z.I., Mughal A.W., Adnan M.A.J., Saeed, N. (2017). Self-efficacy and Sports: Perception of Punjab University Athletes. The SPARK 2(1), 72-81. ISSN 2520-7814.
- Butt, Z.I., Mughal, A.W., Adnan, M.A.J., Saeed, N., Butt, R. H., Fozia, T. & Suhail, M. U. (2018). Effect of Cross Fit Exercises on Weight Loss of Males in Lahore. The SPARK 3(1), 30-42. (HEC Recognised Journal Z Category) [http:// www.journal.suit.edu.pk/index.php/spark/](http://www.journal.suit.edu.pk/index.php/spark/) ISSN 2520- 7814.
- Adnan, M.A.J., Butt, Z.I., Mughal, A.W., Saeed, N., Butt, R. H., Fozia, T. & Suhail, M. U. (2018). Relationship Between Social Control and Sports. The SPARK 3(1), 80-91. (HEC Recognised Journal Z Category) [http:// www.journal.suit.edu.pk/index.php/spark/](http://www.journal.suit.edu.pk/index.php/spark/) ISSN 2520-7814.
- Atta, H., Butt, Z.I., Kamil, B., Mushtaq, M., (2018), A comparative study of achievement motivation between Pakistani male and female university level basketball players. International Communication, Education, Language and Social Sciences 9 (KLICELS 9), Bangi-Putrajaya, Bandar Baru Bangi, Malaysia. ISBN – 978-967-2072-19-5.



○ **Conferences, Seminars and Workshops, etc.**

Dr. Muhammad Zafar Iqbal Butt

| Sr. No. | Title of Seminar/Conference /workshop | Title of Paper | Place of Workshop | Year |
|---------|---|--|---------------------|------|
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Effect of Cross Fit Exercises on Weight Loss of Males in Lahore (Keynote Speaker) | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Relationship between Social Control Conference of Sports | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Euro-Pak A bio-mechanical analysis of International running sequence on 60m hurdles male and female at world indoor championships, Portland 2016 | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | The effects of aerobic training on RBC and aerobic capacity among 12-16 years' boys | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Effect of sports practices on academic performance of children with hearing impairment | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Effect of consumer (Impulsive) buying behaviour on brand loyalty in sports market | Islamabad, Pakistan | 2017 |



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|--|---|---|---------------------|------|
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Effect of social anxiety on newly entered University players | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Obesity and physical activity: Perception of visually impaired students | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Effect of self-efficacy on the performance of football referee in Pakistan | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | The psychological profile of young players in urban and rural areas of Pakistan | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Developmental variations in physical abilities of Pakistani children through 11 to 15 years of age | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | A study regarding the feeling of stress among the college player in Khyber Pakhtunkhwa | Islamabad, Pakistan | 2017 |
| | 1 st Euro-Pak International Conference of Sports Sciences & Physical Education | Rehabilitation of Ankle Sprain (Interior Tibiofibular Ligament - ATFL) of Male Cricketers through Physical Training | Islamabad, Pakistan | 2017 |



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|--|---|--|---------------------------|------|
| | 4th International Conference on Computational and Social Sciences | A study of sexual harassment among elite sports women in Pakistan (Keynote Speaker) | Pekalongan, Indonesia | 2017 |
| | The 9 th Kuala Lumpur International Communication, Education, Language and Social Science Conference | A comparative study of achievement motivation between Pakistani male and Female university level basketball players | Kuala Lumpur, Malaysia | 2018 |
| | The 12 th International Conference on Language, Literature, Culture, and Education | Players perception about modernization of sports equipment at university level in Pakistan | Antalya, Turkey | 2018 |
| | Health Across Life Span HAL-2018 | Perception of Physical Educationist about Inclusion of students with disability in Physical Education Magdeburg, Germany | Magdeburg, Germany | 2018 |
| | 4 th International Multidisciplinary Research Conference 2018 (IMRC-2018) | Effects of Goal Setting and Player's Performance at University level: An Exploratory Study | Peshawar, Pakistan | 2018 |
| | 8 th International Conference on Postgraduate Education (ICPE-8) | Players' Perception about Commercialization of sports in academic Institutions of Pakistan | Kuala Terengganu Malaysia | 2018 |



DEPARTMENT OF ZOOLOGY

○ **Publications**

- Javed, A. and Qazi, J.I. 2018. Testosterone propionate promotes angiogenesis and nerve regeneration in extensor digitorum longus muscle grafts. *Sindh Univ. Res. Jour. (Sci. Ser.)*. **50 (001)**: 59-64. (HEC recognized Y Category)
- Nazir, S., Anwar, J., Munawar, M.A., Qazi, J.I., Best, S.P., Cheah, M. and Yaseen, M. 2018. Metal complexation induces antibiotic activity in S-ethyl-L-cysteine sulfoxide. *Inorganica Chimica Acta*. 478(2018): 166-175. **(I.F. 2.264)**
- Tabssum, F., Ahmad, Q.A. and Qazi, J.I. 2018. DNA sequenced based bacterial taxonomy should entail decisive phenotypic remarks: Towards a balanced approach. *J. Basic Microbiol.* 2018: 1-10. (I.F. 1.58)
- Ghaffar, I., Imtiaz, A., Hussain, A., Javid, A., Jabeen, F., Akmal, M. and Qazi, J.I. 2018. Microbial production and industrial applications of keratinases: an overview. *International Microbiology*. DOI: 10.1007/s10123-018-0022-1. (I.F. 0.796)
- Batool, S., Hussain, A., Iqbal, M.A., Javid, A., Ali, W., Bukhari, S.M., Akmal, M. and Qazi, J.I. 2018. Implication of highly metal-resistant microalgal-bacterial co-cultures for the treatment of simulated metal-loaded wastewaters. *Int. Microbiol.* DOI: 10.1007/s10123-018-0025-y. (I.F. 0.796)
- Jabeen, F., Hussain, A., Manzoor, M., Younis, T., Rasul, A. and Qazi, J.I. 2018. Potential of bacterial chitinolytic, *Stenotrophomonas maltophilia*, in biological control of termites. *Egyptian Journal of Biological Pest Control*. 28:86. <https://doi.org/10.1186/s41938-018-0092-6>. (I.F. 0.163)
- Ali, S., Nelofer, R., Andleeb, S., Baig, S., Shakir, H.A. and Qazi, J.I. 2018. Biosynthesis and optimization of bacitracin by mutant *Bacillus licheniformis* using submerged fermentation. *Indian Journal of Biotechnology*. 17: 251-260. (I.F. 0.368)
- Khan, R., Khan, M.I., Zeb, A., Roy, N., Yasir, M., Khan, I., Qazi, J.I., Ahmad, S., Ullah, R. and Bhutto, Z. 2018. Prokaryotic diversity from extreme environments of Pakistan and its potential applications at regional levels. Bioprospecting potentials of regional extremophiles. **doi:** <https://doi.org/10.1101/342949>.
- Aihetasham, A., Shairq, S. and Qazi, J.I. 2018. Potential fungal control of the subterranean termite *Heterotermes indicola* (Wasmann). *Pakistan Journal of Zoology*. 50(6): 2093-2098.

RESEARCH COLLABORATION

○ **Indigenous**

- Ayesha Arshad, A student of M.Sc. Zoology, Virtual University of Pakistan do her internship under my supervision, vide office order No. Zoo 11/18, dated July 10, 2018.
- Students from other institutes such as Institute of chemistry, University of Punjab Lahore, GCU, Lahore. Lahore College for Woman University of Lahore and Lahore University seek guidance and are permitted to do their research work in my lab. following formal permission.



- **Indigenous evaluations of thesis and viva voce** (Conducted in 2018) thesis title and venue.
 - Evaluated and conducted viva voce examinations of Ph.D. thesis in Biotechnology entitled “The role of ribosome bindings sites sequence and spacer length between binding sites and initiation codon on CRY2 expression in *Bacillus Host*” of Ms. Roma Adalat, on 03rd December 2018 at Department of Biotechnology, Lahore College for Women University, Lahore under Reg. 11-Ph.D/LCWU/20262 vide officer order No. 10965, dated 30.11.2018.
 - Evaluated and conducted viva voce examination of the M.Sc. Zoology thesis of Miss Andleeb Aslam, Department of Zoology, Government College University, Lahore, vide office order No. D/436/E)(A), dated 03.09.2018.
 - Evaluated and conducted viva voce examinations of Ph.D. thesis of Mr. Muhammad Tahir Nazir, Department of Zoology, University of the Punjab, Lahore vide office order No. D/1142/UZ, and R/1781/Dean Life Sc. dated 03.09.2018.
 - Internal examiner to conduct the thesis examinations of M. Abrar Yousaf BS(Hons), vide office order No. D/1216, dated 30.08.2018.
 - Evaluated and conducted viva voce examinations of M.Phil. thesis of Ms. Aniq Arzoo, University of Sargodha, Sargodha. vide office order No. UOS/Secrecy/Zol-040, dated 12.07.2018.
 - Evaluated BA/B.Sc Dissertation/Project of Rabia Mushtaq entitled “*Wolbachia* induces density and localization pattern in various somatic tissues of *Aedes aegypti* females” at GC University Lahore, vide office order No. 4927/C.Exam, dated 17.07.2018.
 - Evaluated BA/B.Sc Dissertation/Project of Zunaira Tahir entitled “Evaluation of walbB induced *Wolbachia* density and in reproductive tissues of *Aedes aegypti* females” at GC University Lahore, vide office order No. 5168/C.Exam, dated 23.07.2018.
 - Conducted viva voce and thesis examination of M.Phil thesis of Mr. Amir Zohaib, Department of Zoology, University of the Punjab, Lahore vide office order No. D/466/UZ, dated 26.03.2018.
 - Conducted viva voce examination of M.A/M.Sc. Part-II Supply Examination 2017, paper (Zoology) (Fundamentals of Microbiology) at Department of Zoology, University of the Punjab, Lahore vide office order No. 1526 AS/II, dated 26.02.2018.
 - Evaluated and conducted viva voce examination of M.Phil in Biotechnology of Ms. Qamar Gulnaz, University of Sargodha, Sargdha. Vide office order No. UOS/Secrecy/Bio-tec/036, dated 09.02.2018.
 - Evaluated and conducted viva voce examination of M.Phil in Biotechnology of Ms. Fouzia Kanwal, University of Sargodha, Sargdha. Vide office order No. UOS/Secrecy/Bio-tec/032, dated 09.02.2018.



INSTITUTE OF AGRICULTURAL SCIENCES

○ **R&D – An Overview**

Institute of Agricultural Sciences has a strong scientific force in the field that is focusing on Research and Development in Agriculture. The Institute got a US patent for Single Step Liquefaction and Saccharification of Corn Starch Using an Acidophilic, Calcium Independent and Hyperthermophilic Pullulanase. Research on producing virus resistant cotton plants is moving to next step of commercialization. First Fungal Culture bank of Pakistan that is working under Institute of Agricultural Sciences; Punjab University is providing bacterial and fungal cultures for research purposes on demand at nominal charges. They are also offering facilities regarding identification of any microbial culture. Herbal Heritage Garden is working on pilot scale production of plant essential oils and Aleo Vera gel, juices and food items. Using effluent of pulp and paper industry, 11 fungal species were tested for laccase production. Among these *Ganoderma lucidum* most efficiently produced this commercially important enzyme with a molecular weight of 68 KDa. In the next step we are looking forward for the enzyme production at lab scale. Now the institute has started working on application of nanotechnology in agriculture. Multi-institutional research has been started to work on green synthesis of nanoparticles and their use in plant disease management.

○ **Projects: Completed**

- Dr. M. Saleem Haider, Professor & Director
2017-18: As Principal Investigator entitled “Functional characterization of Mastrevirus promoter – An alternative of CaMV 35S Promoter” of Rs.0.250 million by University of the Punjab, Lahore.
- Dr. Amna Shoaib, Assistant Professor
 - 2016-2017: Worked as Principal investigator in the project entitled Induction of resistance and management of cowpea *Macrophomina phaseolina* Charcoal rot disease by biocontrol agents. Support of Academic Research, Punjab University, Pakistan. Grant = 1,50,000/Rs by PU
 - 2018 Worked as Principal investigator in the project Antioxidant enzymes changes in onion due to effect of basal rots disease under salt stress. Support of Academic Research, Punjab University, Pakistan. Grant = 1,50,000/Rs by PU
- Dr. Uzma Bashir, Assistant Professor
2016-2017. Herbicidal activity of fungal metabolites against parthenium weed. Funded by academic research, University of the Punjab, Lahore
- Dr. Shazia Shafique, Assistant Professor
Antagonistic potential of Trichoderma secondary metabolites against *Alternaria alternata*. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan, 2017. (0.15 million)



- Dr. Muhammad Ashfaq, Assistant Professor
 - Screening, improvement and development of high yielding rice varieties using SSR markers (Rs: 150000) 2016-17.
 - Assessment of post-harvest quality in broccoli by silencing ethylene triple response factor (ETR) using floret specific promoter (Rs: 150000) 2016-17.
- Dr. Muhammad Bilal Chattha, Assistant Professor
Completed a research project as Principal Investigator, entitled “Comparative potential of *Moringa olifera* L. leaf extracts from different accessions on wheat (early and late sown) productivity” worth PKR.0.15 million during 2017-18 funded by University of the Punjab, Lahore.
- Dr. Shahbaz Ahmad, Assistant Professor
DNA Barcoding and Management of *Chilo partellus* (Pyralida, Lepidoptera) by using sustainable approaches, Institute of Agricultural Sciences (IAGS) University of the Punjab, Lahore 2016-17.
- Dr. Hafiz Azhar Ali Khan Assistant Professor
Principle Investigator “Studies on permethrin resistance in house flies from Punjab, Pakistan”. Awarded by University of the Punjab, Lahore, Pakistan (150000 PKR)
- Dr. Sajid Ali, Assistant Professor
A survey of knowledge, attitude and practices (KAP) of farmers related to weeds and their management. PKR 150,000. Funded by University of the Punjab, Lahore.
- Dr. Shihawar Waseem Ali, Assistant Professor
Principal Investigator “Determination of Aflatoxins in Rice grains collected from local markets of Lahore and Sheikhpura” University of the Punjab (0.15 Million PKR)
- **Newly launched**
- Dr. M. Saleem Haider, Professor & Director
 - 2017-18: Awareness of climate smart agriculture practices among the agri communities for sustainable environment development (under Social Integration Outreach Program (SIOP) of HEC). Jointly funded by the University of the Punjab and Higher Education Commission, Islamabad
 - 2017-18: Conservation tillage awareness for controlling air pollution from rice straw burning in Punjab (under Social Integration Outreach Program (SIOP) of HEC). Jointly funded by the University of the Punjab and Higher Education Commission, Islamabad
- Dr. Tehmina Anjum, Associate Professor
Principal investigator in one year (2017-2018) project entitled “Exploring potential of phenolic acids to induce resistance in *Solanum melongena* L. against *Alternaria alternata* causing leaf spot disease”. Grant = 1,50,000/Rs by PU.



- Dr. Muhammad Ashfaq, Assistant Professor
Morphological and pathogenic characterization of discolored resistant rice (Rs: 150000) 2017-18.
- Dr. Muhammad Bilal Chattha, Assistant Professor
Conducting a research project as Principal Investigator, entitled “Evaluation of Different Planting Geometries and Fertigation Levels under Surface and Subsurface Drip Irrigation System for Improving Water Use Efficiency under Various Crops.” worth PKR.2.212 million during 2017-19 funded by Water Management Training and Research Institute, Punjab, Lahore.
- Dr. Rashid Mahmood, Assistant Professor
 - Principal Co-Principal Investigation Conservation tillage awareness for controlling air pollution from rice straw burning in Punjab (500,000 PKR)
 - Principal Co-Principal Investigation Conservation tillage awareness for controlling air pollution from rice straw burning in Punjab (Matching grant) (500,000 PKR)
- Dr. Muhammad Nasir Subhani, Assistant Professor
Morphological and molecular identification of postharvest diseases of apple in Pakistan, During 01-07-2017 to 30-06-2018
- Dr. Hafiz Azhar Ali Khan, Assistant Professor
Principle Investigator “Genetics and mechanism of permethrin resistance in house flies from Punjab, Pakistan” Awarded by the HEC (440000 PKR)
- **Publications:** Books/Edited
Dr. M. Saleem Haider, Professor & Director
 - Alam, M.W., Rehman, A., Haider, M.S., Gleason, M.L., Rosli, H., Saira, M., Khan, S.M., Aslam, S., Khan, M.A., Hameed, A. and Sarfraz, S. (2018). First report of *Ceratocystis fimbriata* causing wilt of Loquat in Pakistan. *Plant Disease*, 102(10): 2034. (Impact Factor: 2.94).
 - Sarwar, M., Anjum, S., Khan, M.A., Haider, M.S., Ali, S. and Naseem, M.K. (2018). Assessment of sustainable and biodegradable agricultural substrates for eminence production of cucumber for kitchen gardening. *International Journal of Recycling of Organic Waste in Agriculture*, 7(4): 365-374. (International)
 - Sattar, M.N., Qurashi, F., Iqbal, Z. and Haider, M.S. (2018). Molecular characterization of ageratum enation virus and DNA-satellites associated with yellowing and leaf curl symptoms on mulberry in Pakistan. *Can. J. Plant Pathol.*, 40(3): 442–449 (Impact Factor 1.42).
 - Mushtaq, S., Shafiq, M., Asim, M. and Haider, M.S. (2018). Effect of bacterial endophytes isolated from citrus on the physiology of *Brassica oleracea*. *International Journal of Biosciences*, 12(6): 225-234. (Impact Factor: 0.553).
 - Mushtaq, S., Shafiq, M., Ashfaq, M., Khan, F., Afzaal, S., Hussain, U., Hussain, M., Balal, R.M. and Haider, M.S. (2018). Isolation and morphological characterization of novel bacterial Endophytes from Citrus and evaluation for antifungal potential against *Alternaria solani*. *Biologia (Pakistan)*, 64(1): 119-128. (HEC Recognized Y Category).



- Mushtaq, S., Shafiq, M., Afzaal, S., Ashraf, T. and Haider, M.S. (2018). An uncultured bacterium associated with infection in mandarin (*Citrus reticulata*) in Pakistan. *World Journal of Biology and Biotechnology*, 3(1): 179-181. (International)
- Mushtaq, S., Khan, F., Shafiq, M., Hussain, M. and Haider, M.S. (2017). Endophytic Bacteria: A beneficial organism. *International Journal of Biosciences*, 10(6), 1-12. (Impact Factor: 0.553)
- Qurashi, F., Sattar, M.N., Iqbal, Z. and Haider, M.S. (2017). First report of *Cherry tomato leaf curl virus* and associated DNA-satellites infesting an invasive weed *Parthenium hysterophorus*, from Pakistan. *Journal of Plant Pathology*, 99(1): 267-272 (Impact Factor 1.25).
- Sattar, M.N., Qurashi, F., Iqbal, Z. and Haider, M.S. (2017). Molecular characterization of *Hollyhock leaf curl virus* and associated DNA-satellites infecting *Malva parviflora* in Pakistan. *Canadian Journal of Plant Pathology*, 39(2): 229-234 (Impact Factor 1.25)
- Khalid, S., Zia-ur-Rehman, M., Ali, S.A., Hameed, U., Khan, F., Ahmad, N., Farooq, A.M. and Haider, M.S. (2017). Construction of an infectious chimeric geminivirus by molecular cloning based on coinfection and recombination. *International Journal of Agriculture and Biology*, 19(4): 629-634. (Impact Factor: 0.758)
- Khalid, S., Zia-ur-Rehman, M., Hameed, U., Saeed, F., Khan, F. and Haider, M.S. (2017). Transmission specificity and coinfection of mastrevirus with begomovirus *International Journal of Agriculture and Biology*, 19(1): 105–113. (Impact Factor: 0.758).
- Mahmood, A., Haider, M.S., Ali, Q. and Nasir, I.A. (2017). Multivariate analysis to assess abscisic acid content association with different physiological and plant growth related traits of *Petunia*. *Acta Agriculturae Slovenica*, 109(2): 175-186. (International)
- Ashfaq, M., Anjum, M.A., Hafeez, R., Ali, A., Haider, M.S., Ali, M., Chattha, M.B., Ahmad, S.R., Ahmad, F., Khan, F. and Sajjad, M. (2017). First report of *Fusarium equiseti* causing brown leaf spot of Fishtail Palm (*Caryota mitis*) in Pakistan. *Plant Disease*, 101(5): 840-840 (Impact Factor: 3.173; ISSN: 0191-2917)
- Ashfaq, M., Mubashar, U., Haider, M.S., Ali, M., Ali, A. and Sajjad, M. (2017). Grain discoloration: An emerging threat to rice crop in Pakistan. *Journal of Animal and Plant Sciences*, 27(3): 696-707 (Impact Factor: 0.381; ISSN: 1018-7081)
- Ashfaq, M., Haider, M.S., Ali, M., Shaheen, S., Khan, F. and Mubashar, U. (2017). Molecular diversity and heterosis analysis for rice grain discoloration. *Pakistan Journal of Agricultural Sciences*, 54(3): 579-587. (Impact Factor 0.609)
- Ashfaq, M., Asghari, Q.A., Hafeez, R., Ali, A., Haider, M.S., Ali, M., Chattha, M.B., Rasheed, A. and Sajjad, M. (2017). Microbial Diversity Associated With Rice Seeds. *Biologia (Pakistan)*, 63(2): 161-168. HEC recognized Y category.
- Ahmad, A., Zia-ur-Rehman, M., Hameed, U., Rao, A.Q., Ahad, A., Yasmeen, A., Akram, F., Bajwa, K.S., Scheffler, J., Nasir, I.A., Shahid, A.A., Iqbal, M.J., Husnain, T., Haider, M.S. and Brown, J.K. (2017). Engineered Disease Resistance in Cotton Using RNA-Interference to Knock down Cotton leaf curl Kokhran virus-Burewala and Cotton leaf curl Multan betasatellite Expression. *Viruses*, 9(257): 1-13 (Impact Factor: 3.173)



- Ashfaq, M., Haider, M.S., Ali, A., Ali, M., Mubashar, H., Sajjad, M. and Mubashar, U. (2017). Diversity and correlation analysis in Basmati rice germplasm. *Bangladesh J. Bot.*, 46(2): 565-574) Impact Factor: 0.331).
- Ashfaq, M., Rashid, A., Haider, M.S., Ali, A., Shahzad, M., Ali, M., Khan, F., Farooq, H.U. and Mubashar, U. (2017). Genetic variability and association study of some quantitative traits in chickpea (*Cicer arietinum* L.). *Int. J. Biol. Biotech.*, 14(2): 279-282. (HEC Y Category)
- Hameed, U., Zia-Ur-Rehman, M., Ali, S.A., Haider, M.S. and Brown, J.K. (2017). First report of Chickpea chlorotic dwarf virus infecting cucumber in Pakistan. *Plant Disease*, 101(5): 848. (Impact Factor = 3.2).
- Khalid, S., Zia-ur-Rehman, M., Hameed, U., Saeed, F., Khan, F. and Haider, M.S. (2017). Transmission Specificity and Coinfection of Mastrevirus with Begomovirus. *International Journal of Agriculture & Biology*, 19(1): 101-113 (Impact Factor = 0.758).

Dr. Salik Nawaz Khan, Associate Professor

- Abdul Matin, Salik Nawaz and Suk-Yul Jung. Effect of macrophage alone or primed with cytokines on *Balamuthia mandrillaris* interaction with human brain microvascular endothelial cells in vitro 31(6);2553-2559
- Sana Siddique Rashid Mahmood Salik Nawaz Khan. Correlation of curd-associated fungi with NPK and Na concentrations in cauliflower 12559 [IF1.27]

Dr. Arshad Javaid, Associate Professor

- Bashir U, Javaid A, Bajwa R (2017). Effects of aqueous extracts of sunflower (*Helianthus annuus* L.) on germination and seedling growth of the selected wheat (*Triticum aestivum* L.) varieties. *Bangladesh Journal of Botany* 46(4): 1323-1332. [IF 0.214]
- Qudsia H, Javaid A, Mahmood R, Akhtar N (2017). Correlation between soil chemical characteristics and soil-borne mycoflora in cucumber tunnels. *Pakistan Journal of Botany* 48(4): 1579-1583. [IF 0.750]
- Javed S, Javaid A, Anwar W, Majeed RA, Akhtar R, Naqvi SF (2017). First report of Botrytis bunch rot of grapes caused by *Botrytis cinerea* in Pakistan. *Plant Disease* 101(6): 1036. [IF 2.941]
- Sana N, Shoaib A, Javaid A (2017). Management of collar rot disease in chili by farmyard manure and commercial biofertilizers. *Sains Malaysiana* 46(10): 1693-1700. [IF 0.565]
- Kanwal A, Javaid A, Mahmood R, Akhtar N (2017). Correlation between soil nutrients and soil-borne mycoflora in wheat-rice cropping system of Punjab, Pakistan. *Journal of Animal and Plant Sciences* 27(4): 1256-1263 [IF 0.407]
- Shoaib A, Munir M, Javaid A, Awan AZ, Rafiq M (2018). Anti-mycotic potential of *Trichoderma* spp. and leaf biomass of *Azadirachta indica* against the charcoal rot pathogen *Macrophomina phaseolina* (Tassi) Goid in cowpea. *Egyptian Journal of Biological Pest Control* 28: 26. [IF 0.163]



- Akhtar R, Javaid A (2018). Biological management of basal rot of onion by *Trichoderma harzianum* and *Withania somnifera*. *Planta Daninha* 36: e017170507. [IF 0.544]
- Khurshid S, Javaid A, Shoaib A, Javed S, Qaiser U (2018). Antifungal activity of aerial parts of *Cenchrus pennisetiformis* against *Fusarium oxysporum* f. sp. *lycopersici*. *Planta Daninha* 36: e017166627. [IF 0.544]
- Bashir U, Khan A, Javaid A (2018). Herbicidal activity of *Aspergillus niger* metabolites against parthenium weed. *Planta Daninha* 36: e018167123. [IF 0.544]
- Javaid A, Khan IH, Shoaib A (2018). Management of charcoal rot of mungbean by two *Trichoderma* species and dry biomass of *Coronopus didymus*. *Planta Daninha* 36: e018182795. [IF 0.544]
- Aftab A, Yousaf Z, Javaid A, Rabbani A, Ahmed S, Khan F (2018). *Nigella sativa* L. from traditional to contemporary medicine - A Review. *International Journal of Biology and Biotechnology* 15(2): 237-254. (HEC Recog. Y)
- Javaid A, Kanwal A, Shoaib A (2018). Effect of *Trichoderma harzianum* and dry leaves of *Acacia nilotica* subsp. *indica* on growth of mash bean in *Macrophomina phaseolina* contaminated soil. *International Journal of Biology and Biotechnology* 15(3): 35-540. (HEC Recog. Y)

Dr. Tehmina Anjum, Associate Professor

- Mohammad Javad Jafari, Waheed Akram, Yanju Pang, Aqeel Ahmad, Shakeel Ahmed, Nasim Ahmad Yasin, Tehmina Anjum, Basharat Ali, Xiangdong Hu, Xiaohua Li, Shuang Dong, Qian Cai, Matteo Ciprian, Monika Bielec, Sheng Hu, Fatemeh Sefidkon, Xuebo Hu. 2018. Genetic diversity and biogeography of *T. officinale* inferred from multi locus sequence typing approach. *PLoS One*. 13(9): e0203275. <https://doi.org/10.1371/journal.pone.0203275> (IF: 2.766)
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- Aftab Ahmed, Farhan Saeed, Muhammad Umair Arshad, Muhammad Afzaal, Ali Imran, Shinawar Waseem Ali, Bushra Niaz, Awais Ahmad & Muhammad Imran. Impact of Intermittent Fasting on Human Health: An Extended Review of Metabolic Cascades. *International Journal of Food Properties*, 21:1 (2018), 2700-2713 (Impact Factor: 1.85)
- Sajid Ali, Sohaib Abzaal, Ammara Fatima, Shinawar Waseem Ali, Moazzam Anees, Farah Saeed, Qurat-ul-Ain Bukhari, Ahmad Naeem Shahzad and Masooma Munir. Effect of Different Lights Interception and Varying Concentration of Nitrogen Fertilization on Polyphenols in *Nigella sativa*. *Zeitschrift Fur Arznei- & Gewurzpflanzen (Journal of Medicinal and Spice Plants)*, 22 : 3 (2018) 138-141 (Impact Factor: 0.05)
- Zulfiqar Ahmad, Riaz Hussain, Muhammad Riaz, Tariq Ismail, Syed Mubashar Sabir, Shinawar Waseem Ali, Khalil Ahmad and Muhammad Nadeem. Toxicological Evaluation of Sodium Benzoate on Hematological and Serological Parameters of Wistar rats. *International Journal of Agriculture and Biology*, 20:11 (2018) 2417-2422 · DOI: 10.17957/IJAB/15.0781 (Impact Factor: 0.87)



- Umer Farooq and Shinawar Waseem Ali. Radio Frequency Heating: A Review with Food Applications. *Research Journal of Pharmaceutical Biological and Chemical Sciences*, 9:1 (2018) 243-254 (Impact Factor: 0.35; ESCI)
- Tehreem Nisar, Asma Lodhi, Muhammad Imran, Anees Ahmed Khalil, Syed Amir Gilani, Shinawar Waseem Ali, and Rai Muhammad Amir. Effect of Carbonated Drinks on Biochemical Parameters of Rat Serum. *Journal of Environmental and Agricultural Sciences*, 14 (2018):32-39
- Aftab Ahmed, Farhan Saeed, Muhammad Umair Arshad, Shinawar Waseem Ali, Ali Imran, Muhammad Afzaal, Azmatullah Khan. Evaluation and Sensorial Assessment of Date Pit-Based Functional Drink. *Journal of Food Processing and Preservation*, 41 (2017) 1-9. doi:10.1111/jfpp.12890 (Impact factor: 0.89)
- Muhammad Ali, Hafiz Azhar Ali Khan, Hafiz Muhammad Tahir, Asad Tariq, Muhammad Ashfaq, Shinawar Waseem Ali, Asim Gulzar, Hafiz Muhammad Umer Aslam, Uzma Khalid, Sajawal Yousaf, Urooj Mubashar. Larvicidal Potential of Different Plants Extracts against the Larvae of Mosquito (*Aedes Aegypti* (L.) (Culicidae:Diptera). *Pakistan Entomologist*, 39 (2017) 37-40. (HEC Recognised)
- **Conferences, Seminars and Workshops, etc.**

Prof. Dr. Muhammad Saleem Haider, Professor & Director

 - Participated in Conference on Microbiology & Molecular Genetics, on 07.02.2018 organized by the Department of Microbiology & Molecular Genetics, P.U. Lahore.
 - Attended GROW Festival & Launch of Climate Public Expenditure Review (CPER) on 13.12.2017 at College of Earth & Environmental Sciences (CEES), P.U., Lahore.
 - Presented research paper entitled "Infectivity and host pathogen interaction study of chickpea chlorotic dwarf virus L strain isolated from cotton" in the 'International Virology Conference', held from 30th to 31st October, 2017 at Toronto, Canada.

Dr. Arshad Javaid, Associate Professor

 - Javaid A, (2017). GC-MS analysis and fungicidal potential of flower extract of *Acacia nilotica* subsp. *indica* against *Macrophomina phaseolina*. In: 1st National Conference on Bioactivity of Phytochemicals, October 4-6, 2017, University of Lahore, Pakistan.
 - Javaid A, Latif U, Akhtar N, Ahmed D (2017). Molecular characterization of *Fusarium moniliforme* and its management by methanolic extract of *Coronopus didymus*. In: 1st International Conference on New Trends in Natural Sciences from Basic to Applied, October 25-27, 2017, Lahore College for Women University, Lahore, Pakistan.
 - Javaid A, Afzal R, Shoaib A (2017). Biological management of southern blight of chili by *Penicillium oxalicum* and leaves of *Eucalyptus citriodora*. In: 6th International Conference of Pakistan Phytopathological Society: Plant Health for Sustainable Agriculture, November 20-22, 2017, Bahauddin Zakriya University, Multan, Pakistan.
 - Javaid A, Akbar M, Ahmed E (2017). Isolation of an herbicidal compound from culture filtrates of *Drechslera australiensis* through bioassays guided fractionation.



- International Conference on Conventional and Modern Approaches in Plant Sciences, November 28-29, 2017, University of the Punjab, Lahore, Pakistan.
- Javaid A, Jabeen N, Ahmed E, Qureshi MZ (2017). Exploiting antifungal potential of leaf extract of *Datura metel* for management of *Sclerotium rolfsii*. In: 2nd International Conference on Innovative Biological and Public Health Research, December 6-7, 2017, Department of Zoology, GC University Lahore, Pakistan.
 - Javaid A, Sana N, Shoaib A (2017). Antifungal activity against *Sclerotium rolfsii* and GC-MS analysis of leaf extract of *Azadirachta indica*. In: 11th International Conference of Pakistan Society for Microbiology: Applied Microbial Genomics in Public Health, Food, Pharma and Agriculture, December 18-20, 2017, Bahauddin Zakriya University, Multan, Pakistan.
 - Javaid A, Akbar M, Ahmed E (2018). Fungal metabolites as natural herbicides. In: International Conference on Microbiology and Genetic Engineering, February 7-9, 2018, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
 - Javaid A, Anjum F, Akhtar N (2018). Molecular characterization of *Pyricularia oryzae* and its management by stem extract of *Tribulus terrestris*. In: The 1st International Conference on Applied Agricultural Sciences and Prospective Technology, February 23-26, 2018, Luxor, Egypt.
 - Javaid A, Akbar M (2018). Alternative to herbicides strategy for management of toothed dock weed in wheat under field conditions. In: 7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions, March 23-26, 2018, Islamia College Peshawar, Pakistan.
 - Javaid A, Mubeen T, F, Bashir U (2018). Management of parthenium weed by metabolites of *Alternaria japonica*. In: 14th National Weed Science Congress of Weed Science Society of Pakistan, March 24-25, 2018, Islamia College Peshawar, Pakistan.
 - Javaid A (2018). Non-chemical control of collar rot of bell pepper. International Horticulture Conference 2018", April 25 to 27, 2018, Arid Agriculture University Rawalpindi.
 - Javaid A (2018). Alternate strategy for management of weeds of wheat. In: International Conference on Current Scenario of Research in Plant Sciences: Challenges and Opportunities, May 9-11, 2018, University of Sargodha, Sargodha, Pakistan.
 - Javaid A (2018). Comparative antifungal activity of different parts of *Datura metel*. In: 3rd International Conference on Biosciences, May 9-11, 2018, GC University Lahore, Pakistan.
 - Javaid A (2018). Biological control of collar rot of chili (*Capsicum annuum* L.). In: International Conference on Biological Control of Pests and Diseases, July 9 to 11, 2018, University of Karachi, Pakistan.
 - Javaid A, Akhtar R (2018). Efficacy of shoot extracts of *Sisymbrium irio* against *Fusarium oxysporum* f. sp. *cepae*. In: Second National Conference on Emerging Trends in Bioinformatics and Biosciences, August 9-11, 2018, Hazara University Mansehra, Pakistan.



- Javaid A, Jabeen N (2018). Bioactivity of a medicinal herb *Datura metel*. In: First National Conference on Medicinal Plants Research, August 29 to 31, 2018, Karakorum International University, Gilgit, Pakistan.
- Javaid A (2018). Bioassays guided fractionation of *Ageratum conyzoides* for identification of natural antifungal compounds against *Macrophomina phaseolina*. In: 2nd Global Conference on Plant Science and Molecular Biology, September 20-22, 2018, Hotel Holiday Inn, Rome, Italy.

Dr. Tehmina Anjum, Associate Professor

- Oral presentation on “Bio-degradation of Aflatoxin B1 and B2 in stored maize using plant extracts” in A conference on microbiology and molecular genetics. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore on February 7 – 9, 2018.
- Participated in one day international seminar on resource conservation for sustainable agriculture and food security. Organized by the Institute of Agricultural Sciences, University of the Punjab, Lahore on April 19, 2018.
- Presented oral paper entitled “Anti-aflatoxigenic activity of botanical extracts in maize samples” in the 8th International Conference on Asia Agriculture and Animal, July 26 – 28, 2018. National University of Singapore, Singapore.
- Participated in one day training Seminar on 3rd Kitchen Gardening and Seed Distribution. Organized by the Institute of Agricultural Sciences, University of the Punjab, Lahore on September 27th, 2018.

Dr. Amna Shoaib, Assistant Professor

- Growth, physiological and antioxidative Responses of tomato to early blight pathogen. A conference on Microbiology & Molecular Genetics, 7-9th February 2018, organized by Department of Microbiology & Molecular Genetics, University of the Punjab. Pakistan.
- Response of *Macrophomina phaseolina* to Cr(VI) toxicity. 3rd International Conference on Biosciences. 9th to 11th May, 2018 Organized by GC University Lahore, PAKISTAN.
- Chromium tolerance and oxidative stress response in phytopathogenic charcoal rot fungus. New Trends in Natural Sciences II: Public Health, Food Nutrition & Safety. 24th-26th October 2018, Organized by Department of Biotechnology & Zoology, Lahore College for Women University. Pakistan.
- Resource Conservation for Sustainable Agriculture and Food Security. 19th April 2018. Institute of Agricultural Sciences, University of the Punjab, Lahore, PAKISTAN.

Dr. Uzma Bashir, Assistant Professor

- Phytochemical Analysis Of *Alstonia Scholaris* For The Management Of *Sclerotium Rolfsii*. 3rd International Conference on “Biosciences” (ICBS-38-2018): GC University, Lahore, Pakistan. May 09th -11th, 2018.



- Evaluation of herbicidal activity of *Aspergillus phoenicis* metabolites for the management of parthenium weed. International Conference on Microbiology and Molecular Genetics (MMG2018): February 07 – 09, 2018 :Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore,
- Evaluation of *Aspergillus niger* metabolites for the management of parthenium weed. The International Conference on Beneficial Microbes (ICOBM 2018). The Waterfront Hotel, Kuching, Malaysia. 30th July -1st August 2018.

Dr. Shazia Shafique, Assistant Professor

- 3rd International conference on Biosciences, 9-11 May, 2018, Government College University, Lahore, Pakistan.
- 6th International conference on Education – Science Beyond Classroom, 15-17 March, 2018, Department of Botany, University of Education, Lahore, Pakistan.
- International conference on Microbiology and Molecular genetics, 7-9 February, 2018, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
- 1st International conference on Conventional and Modern Approaches in Plant Sciences, 28-29 November, 2017, Department of Botany, University of the Punjab, Lahore, Pakistan.
- 6th International Conference of Pakistan Phytopathological Society “Plant health for sustainable agriculture” 20-22 November, 2017, Department of plant pathology, Bahauddin Zakariya University, Multan.
- Dr. Muhammad Ashfaq, Assistant Professor
- Attended 1st International and 2nd conference challenges and opportunities to boost agriculture in changing climate March, 26-28, 2018 organized by college of Agriculture BZU.
- Attended International Horticulture Conference Pakistan 2018 held on April 25-27, 2018 organized by PMAS Arid Agriculture University Rawalpindi, Pakistan
- Attended International conference “2nd Global conference on Plant Science and Molecular Biology” (GPMB-2018) from 20-22 September, 2018

Dr. Muhammad Bilal Chattha, Assistant Professor

- Participated and presented research paper in the International Horticulture Conference Pakistan 2018 held on April 25-27, 2018, at PMAS Arid Agriculture University Rawalpindi, Pakistan.
- Participated and presented research paper in 1st International & 2nd National conference on Challenges and Opportunities to boost agriculture in changing climate. March 26-28, 2018 at College of Agriculture, Baha ud din Zakriya University, Bahadur sub-campus, Layyah.



- Participated and presented research paper in MMG 2018- A conference on Microbiology & Molecular Genetics held on February 07-09, 2018 at University of the Punjab, Lahore.
- Organized a one-day national seminar as Chief Organizer on “Looming water crisis in Pakistan, Impact and Solution”, July 12, 2018 at Lahore Chamber of Commerce and Industries, Lahore.
- Organized a one-day International seminar as Chief Organizer on “Resource Conservation for Sustainable Agriculture & Food Security”, April 19, 2018 at University of the Punjab, Lahore, Pakistan.
- Participated in the National Seminar on “Future Outlook & Challenges for the Sustainable Management of Insect Pests: Progress & Prospects” held on May 02, 2018 at Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Participated in the International Seminar on Floriculture Industry and Business Opportunities in Pakistan, April 6, 2018, at University of the Punjab, Lahore, Pakistan.

Dr. Shahbaz Ahmad, Assistant Professor

- 38th Pakistan International Congress of Zoology, Organized by Department of Zoology, University of the Punjab from February 27- March 1, 2018.
- International Conference on Innovation and Commercialization in Biotechnology (ICICB) organized by Food and Biotechnology research Centre, PCSIR Laboratories Complex, Lahore Ministry of Science & Technology, Govt. of Pakistan from 25th -26th , 2018
- 65th Annual Meeting of the Entomological Society of America (ESA), Ignite, Inspire and innovate organized by Entomological Society of America (ESA) held in Denver, Colorado, U.S.A, October 5-8, 2017
- 1st International Conference on Conventional and Modern Approaches in Plant Sciences" on 28-29 November 2017 at Department of Botany, University of the Punjab, Lahore.

Dr. Muhammad Ali, Assistant Professor

- Oral presentation 0644: Muhammad Ali and Muhammad Ashfaq “The study of plant extracts as insecticides to deal with the Jassid (*Amrasca biguttula biguttula* (Ishida) population on the egg plant (*Solanum melongena* L.) crop at the 2018 ESA, ESC, and ESBC Joint Annual Meeting November 11 - 14, Vancouver, BC Canada 2018 Pp 116.
- Poster presentation P0065 “Muhammad Ali, Muhammad Shazad and Muhammad Ashfaq “The effectiveness of bio-Pesticides against rice leaf folder (*CNAPHALOCROCIS MEDINALIS*) to using the DNA quantification as Pesticides screening tool, XI European congress of entomology 2-6 July 2018, Napoli Italy Pp 170.
- Poster presentation at International Horticulture conference, Pakistan 2018, Title “Muhammad Ali, Muhammad Ashfaq, Muhammad Tariq and Asim Gulzar. The influence of abiotic factor for the variation of jassid numbers on brinjal crop. PMAS Arid agriculture University Rawalpindi Pakistan. (25-27 April 2018).



- Poster presentation at 1st international and 2nd national conference on “Challenges and opportunities to boost the agriculture in changing the climate, Title “Muhammad Ali, Muhammad Ashfaq, Asim Gulzar and Muhammad Shahzad, The study for screening of different varieties of aubergine (*Solanum melongena*) against cotton jassid. College of agriculture BZU Bahadar sub Campus District Layyah Pakistan. (26-28 March 2018).
- Poster presentation in International conference 38th Pakistan congress of Zoology, “Muhammad Ali, Muhammad Ashfaq, Asim Gulzar, Naureen Rana and Muhammad Shahzad” The study of various extract of green plants as biopesticide to control the Leaf hopper (*Amrsca buguttula biguttula*) population on the aubergine (*Solanum melongena*). Zoological society of Pakistan, University of the Punjab, Lahore. (27 Feb-1 March 2018).

Dr. Shinawar Waseem Ali, Assistant Professor

- Shinawar Waseem Ali, Waseem Haider, and Mahrukh Ilyas. Food Safety Knowledge and Practices of Food Handlers at Hospital Canteens in Lahore, “1st International Pakistan Halal Assembly” 20-21 March 2018, Government College University, Faisalabad, Pakistan
- Mubashir Naveed and Shinawar Waseem Ali. Biological Degradation of Aflatoxins. “1st international Pakistan Halal Assembly” 20-21 March 2018, Government College University, Faisalabad, Pakistan.
- Chief Organiser of Seminar on “Current Trends in Halal Food Safety Assurance Issues and Challenges” 26 April 2018 at University of the Punjab, Lahore.
- Participation and Sesion Chair in “7th Invention to Innovation Summit 2018” March 6-7, 2018, at University of the Punjab, Lahore.
- Chief Organizer of Intenational Seminar on “Pest (Termites) Control in Food Processing Industries”, 31st Janurary 2018 at University of the Punjab, Lahore
- Participation and Session chair in “2nd Invention to Innovation Summit 2017”, 18-19th December 2017, at University of Karachi, Sindh.
- Chief Organizer of “World Food Day Celebrations”, 31st October 2017 at University of the Punjab, Lahore.

Dr. Rashid Mahmood, Assistant Professor

- Mahmood, R., I. Attique, F. Qurat-ul-Ain. Leaf color charts for nitrogen management in five summer vegetables. Oral presentation: 1st International Conference on Soil and Crop Health in Changing Climate, November 28-29, 2018, Department of Soil and Environmental Sciences, MNS – University of Agriculture, Multan.
- Mahmood, R., M. Hashmi and M. Shafiq. Growth and yield responses of chili pepper (*Capsicum annuum*) to soil acidification. Oral presentation: 6th International Conference of Pakistan Phytopathological Society “Plant Health for Sustainable Agriculture” A focused approach for food security under changing climate, November 20-22, 2017, Department of Plant Pathology, Bahauddin Zakriya University and Central Cotton Research Institute, Multan.



- Mahmood, R., M. Ali and M. Shafiq. influence of nitrogen to phosphorus supply ratio on growth yield and medicinally important characteristics of linseed (*Linum usitatissimum* L.). Oral presentation: International Conference on “Conventional and Modern Approaches in Plant Sciences” November 27-29, 2017, Department of Botany, University of the Punjab, Lahore-54590 Pakistan.

Dr. Zahida Qadeer, Assistant Professor

- National Symposium on Moringa Olefera: recent trends and challenges in processing and product development (April, 09-10, 2018)
- CUST-BIO Sciences conference at university of science and technology, Islamabad. 13, Dec, 2018

Dr. Sajid Ali, Assistant Professor

- Sajid Ali, A. Fatima, H. Shanakhat, F. Saeed, S. Afzaal, T. Bahar, W. Anwar, M. S. Haider. 2018. Isolation of *Bacillus species* from rhizosphere and their antifungal activity against *Alternaria alternata*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 4. July 09-11.
- Adnan Zahid, A. A. Shahid, A. Javed, S. Ali, W. Anwar. 2018. Management of Fusarium wilt of tomato (*Lycopersicon Esculentum* Mill.) by biological and chemical strategies. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 3. July 09-11.
- Adnan Akther, M. T. Manzoor, S. Ali, A. Javed, W. Anwar. 2018. Impact of activated biochar on the disease causing potential of *Fusarium oxysporum* F.Sp. *Lycopersici chlamydospores*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 40. July 09-11.
- Moazzam Anees, M. Tayyab, M. T. Manzoor, S. Ali, S. W. Ali, M. S. Haider. 2018. Effect of climatic change over the population density of *Dipornia citri* in kinnow orchard. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 47. July 09-11.
- Muhammad Tariq Manzoor, M. Anees, S. Ali, A. Akhter, M. S. Haider. 2018. Expressiveness of mastrevirus movement protein gene in *Nicotiana benthamiana*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 57. July 09-11.
- Waheed Anwar, K. Nawaz, S. Ali, M.A. Javed, A. Zahid, M. S. Haider. 2018. First incidence of leaf spot of cotton caused by *Boeremia exigua* in Punjab Pakistan. In Abstracts, International Conference on Biological Control of Pests and Diseases:



Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 61. July 09-11.

- Sajid Ali, S. Afzaal, A. Fatima, Q. A. Bukhari, Z. Latif. 2018. Behavior of polyphenols in *Trachyspermum ammi* under varying nitrogen fertilization and light interception. In Abstracts, 1st International and 2nd National Conference on Challenges and Opportunities to Boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Pakistan. pp 439. March 26-28.
- Adnan Zahid, A. A. Shahid, K. A. Khan, S. Ali and W. Anwar. 2018. Identification of Soil Linked Productivity Constraints of IAGS Farm by using GPS and GIS Based Soil Fertility Maps. In Abstracts, 1st International and 2nd National Conference on Challenges and Opportunities to Boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Pakistan. pp 273. March 26-28.
- W. Anwar, K. Nawaz, S. Ali, M. A. Javed, A. Zahid, A. A. Shahid, A. Akhter and M. S. Haider. 2018. Micro biomes associated with insects of cotton crop in different agro ecological zones of Punjab, Pakistan. In Abstracts, 1st International and 2nd National Conference on Challenges and Opportunities to Boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Pakistan. pp 440. March 26-28.

Dr. Hafiz Azhar Ali Khan, Assistan Professor

- International conference on biological control of pests and diseases: progress and prospects

○ Research Journals

Dr. M. Saleem Haider, Professor & Director

- Alam, M.W., Rehman, A., Haider, M.S., Gleason, M.L., Rosli, H., Saira, M., Khan, S.M., Aslam, S., Khan, M.A., Hameed, A. and Sarfraz, S. (2018). First report of *Ceratocystis fimbriata* causing wilt of Loquat in Pakistan. *Plant Disease*, 102(10): 2034. (Impact Factor: 2.94).
- Sarwar, M., Anjum, S., Khan, M.A., Haider, M.S., Ali, S. and Naseem, M.K. (2018). Assessment of sustainable and biodegradable agricultural substrates for eminence production of cucumber for kitchen gardening. *International Journal of Recycling of Organic Waste in Agriculture*, 7(4): 365-374. (International)
- Sattar, M.N., Qurashi, F., Iqbal, Z. and Haider, M.S. (2018). Molecular characterization of ageratum enation virus and DNA-satellites associated with yellowing and leaf curl symptoms on mulberry in Pakistan. *Can. J. Plant Pathol.*, 40(3): 442-449 (Impact Factor 1.42).
- Mushtaq, S., Shafiq, M., Asim, M. and Haider, M.S. (2018). Effect of bacterial endophytes isolated from citrus on the physiology of *Brassica oleracea*. *International Journal of Biosciences*, 12(6): 225-234. (Impact Factor: 0.553).
- Mushtaq, S., Shafiq, M., Ashfaq, M., Khan, F., Afzaal, S., Hussain, U., Hussain, M., Balal, R.M. and Haider, M.S. (2018). Isolation and morphological characterization of novel bacterial Endophytes from Citrus and evaluation for antifungal potential against *Alternaria solani*. *Biologia (Pakistan)*, 64(1): 119-128. (HEC Recognized Y Category).



- Mushtaq, S., Shafiq, M., Afzaal, S., Ashraf, T. and Haider, M.S. (2018). An uncultured bacterium associated with infection in mandarin (*Citrus reticulata*) in Pakistan. *World Journal of Biology and Biotechnology*, 3(1): 179-181. (International)
- Mushtaq, S., Khan, F., Shafiq, M., Hussain, M. and Haider, M.S. (2017). Endophytic Bacteria: A beneficial organism. *International Journal of Biosciences*, 10(6), 1-12. (Impact Factor: 0.553)
- Qurashi, F., Sattar, M.N., Iqbal, Z. and Haider, M.S. (2017). First report of *Cherry tomato leaf curl virus* and associated DNA-satellites infesting an invasive weed *Parthenium hysterophorus*, from Pakistan. *Journal of Plant Pathology*, 99(1): 267-272 (Impact Factor 1.25).
- Sattar, M.N., Qurashi, F., Iqbal, Z. and Haider, M.S. (2017). Molecular characterization of *Hollyhock leaf curl virus* and associated DNA-satellites infecting *Malva parviflora* in Pakistan. *Canadian Journal of Plant Pathology*, 39(2): 229-234 (Impact Factor 1.25)
- Khalid, S., Zia-ur-Rehman, M., Ali, S.A., Hameed, U., Khan, F., Ahmad, N., Farooq, A.M. and Haider, M.S. (2017). Construction of an infectious chimeric geminivirus by molecular cloning based on coinfection and recombination. *International Journal of Agriculture and Biology*, 19(4): 629-634. (Impact Factor: 0.758)
- Khalid, S., Zia-ur-Rehman, M., Hameed, U., Saeed, F., Khan, F. and Haider, M.S. (2017). Transmission specificity and coinfection of mastrevirus with begomovirus *International Journal of Agriculture and Biology*, 19(1): 105–113. (Impact Factor: 0.758).
- Mahmood, A., Haider, M.S., Ali, Q. and Nasir, I.A. (2017). Multivariate analysis to assess abscisic acid content association with different physiological and plant growth related traits of *Petunia*. *Acta Agriculturae Slovenica*, 109(2): 175-186. (International)
- Ashfaq, M., Anjum, M.A., Hafeez, R., Ali, A., Haider, M.S., Ali, M., Chattha, M.B., Ahmad, S.R., Ahmad, F., Khan, F. and Sajjad, M. (2017). First report of *Fusarium equiseti* causing brown leaf spot of Fishtail Palm (*Caryota mitis*) in Pakistan. *Plant Disease*, 101(5): 840-840 (Impact Factor: 3.173; ISSN: 0191-2917)
- Ashfaq, M., Mubashar, U., Haider, M.S., Ali, M., Ali, A. and Sajjad, M. (2017). Grain discoloration: An emerging threat to rice crop in Pakistan. *Journal of Animal and Plant Sciences*, 27(3): 696-707 (Impact Factor: 0.381; ISSN: 1018-7081)
- Ashfaq, M., Haider, M.S., Ali, M., Shaheen, S., Khan, F. and Mubashar, U. (2017). Molecular diversity and heterosis analysis for rice grain discoloration. *Pakistan Journal of Agricultural Sciences*, 54(3): 579-587. (Impact Factor 0.609)
- Ashfaq, M., Asghari, Q.A., Hafeez, R., Ali, A., Haider, M.S., Ali, M., Chattha, M.B., Rasheed, A. and Sajjad, M. (2017). Microbial Diversity Associated With Rice Seeds. *Biologia (Pakistan)*, 63(2): 161-168. HEC recognized Y category.
- Ahmad, A., Zia-ur-Rehman, M., Hameed, U., Rao, A.Q., Ahad, A., Yasmeen, A., Akram, F., Bajwa, K.S., Scheffler, J., Nasir, I.A., Shahid, A.A., Iqbal, M.J., Husnain, T., Haider, M.S. and Brown, J.K. (2017). Engineered Disease Resistance in Cotton Using RNA-Interference to Knock down Cotton leaf curl Kokhran virus-Burewala and Cotton leaf curl Multan betasatellite Expression. *Viruses*, 9(257): 1-13 (Impact Factor: 3.173)



- Ashfaq, M., Haider, M.S., Ali, A., Ali, M., Mubashar, H., Sajjad, M. and Mubashar, U. (2017). Diversity and correlation analysis in Basmati rice germplasm. *Bangladesh J. Bot.*, 46(2): 565-574) Impact Factor: 0.331).
- Ashfaq, M., Rashid, A., Haider, M.S., Ali, A., Shahzad, M., Ali, M., Khan, F., Farooq, H.U. and Mubashar, U. (2017). Genetic variability and association study of some quantitative traits in chickpea (*Cicer arietinum* L.). *Int. J. Biol. Biotech.*, 14(2): 279-282. (HEC Y Category)
- Hameed, U., Zia-Ur-Rehman, M., Ali, S.A., Haider, M.S. and Brown, J.K. (2017). First report of Chickpea chlorotic dwarf virus infecting cucumber in Pakistan. *Plant Disease*, 101(5): 848. (Impact Factor = 3.2).
- Khalid, S., Zia-ur-Rehman, M., Hameed, U., Saeed, F., Khan, F. and Haider, M.S. (2017). Transmission Specificity and Coinfection of Mastrevirus with Begomovirus. *International Journal of Agriculture & Biology*, 19(1): 101-113 (Impact Factor = 0.758).

Dr. Salik Nawaz Khan, Associate Professor

- Abdul Matin, Salik Nawaz and Suk-Yul Jung. Effect of macrophage alone or primed with cytokines on *Balamuthia mandrillaris* interaction with human brain microvascular endothelial cells in vitro 31(6);2553-2559
- Sana Siddique Rashid Mahmood Salik Nawaz Khan. Correlation of curd-associated fungi with NPK and Na concentrations in cauliflower 12559.

Dr. Arshad Javaid, Associate Professor

- Bashir U, Javaid A, Bajwa R (2017). Effects of aqueous extracts of sunflower (*Helianthus annuus* L.) on germination and seedling growth of the selected wheat (*Triticum aestivum* L.) varieties. *Bangladesh Journal of Botany* 46(4): 1323-1332. [IF 0.214]
- Qudsia H, Javaid A, Mahmood R, Akhtar N (2017). Correlation between soil chemical characteristics and soil-borne mycoflora in cucumber tunnels. *Pakistan Journal of Botany* 48(4): 1579-1583. [IF 0.750]
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Dr. Shinawar Waseem Ali, Assistant Professor

- Kiran Nawaz, Ahmad Ali Shahid, Louis Bengyella, Muhammad Nasir Subhani, Muhammad Ali, Waheed Anwar, Sehrish Iftikhar, and Shinawar Waseem Ali. Diversity of Trichoderma species in chili rhizosphere that promote vigor and antagonism against virulent *Phytophthora capsici*. *Scientia Horticulturae* 239 (2018): 242-252 (Impact Factor: 1.76)
- Kiran Nawaz, Ahmad Ali Shahid, Louis Bengyella, Muhammad Nasir Subhani, Muhammad Ali, Waheed Anwar, Sehrish Iftikhar and Shinawar Waseem Ali. Evidence of genetically diverse virulent mating types of *Phytophthora capsici* from *Capsicum annum* L. *World Journal of Microbiology and Biotechnology*, 34 (9) (2018): 130 (Impact Factor: 2.1)
- Hafiz Azhar Ali Khan, Waseem Akram, Sumi-Lee, Shakir Manzoor, Syed Rajab Ayub, Khalil ur Rehman, Shinawar Waseem Ali, Muhammad Bilal Chattha, Sumaira Maqsood. Monitoring susceptibility to spinosad in three major stored-product insect species from Punjab, Pakistan. *Pakistan Journal of Zoology* Vol. 50: 4 (2018) 1355-1360. (Impact Factor: 0.55)
- Umer Farooq, Riaz Ahmed, Shinawar Waseem Ali, and Puntarika Ratanatriwong. High Pressure Processing a Novel Food Processing Technique: Food Industrial Applications. *Research Journal of Pharmaceutical Biological and Chemical Sciences*, 9:3 (2018) 57-68 (Impact Factor: 0.35; ESCI)
- Aftab Ahmed, Farhan Saeed, Muhammad Umair Arshad, Muhammad Afzaal, Ali Imran, Shinawar Waseem Ali, Bushra Niaz, Awais Ahmad & Muhammad Imran. Impact of Intermittent Fasting on Human Health: An Extended Review of Metabolic Cascades. *International Journal of Food Properties*, 21:1 (2018), 2700-2713 (Impact Factor: 1.85)
- Sajid Ali, Sohaib Abzaal, Ammara Fatima, Shinawar Waseem Ali, Moazzam Anees, Farah Saeed, Qurat-ul-Ain Bukhari, Ahmad Naeem Shahzad and Masooma Munir. Effect of Different Lights Interception and Varying Concentration of Nitrogen Fertilization on Polyphenols in *Nigella sativa*. *Zeitschrift Fur Arznei- & Gewurzpflanzen (Journal of Medicinal and Spice Plants)*, 22 : 3 (2018) 138-141 (Impact Factor: 0.05)
- Zulfiqar Ahmad, Riaz Hussain, Muhammad Riaz, Tariq Ismail, Syed Mubashar Sabir, Shinawar Waseem Ali, Khalil Ahmad and Muhammad Nadeem. Toxicological Evaluation of Sodium Benzoate on Hematological and Serological Parameters of Wistar rats. *International Journal of Agriculture and Biology*, 20:11 (2018) 2417-2422 · DOI: 10.17957/IJAB/15.0781 (Impact Factor: 0.87)
- Umer Farooq and Shinawar Waseem Ali. Radio Frequency Heating: A Review with Food Applications. *Research Journal of Pharmaceutical Biological and Chemical Sciences*, 9:1 (2018) 243-254 (Impact Factor: 0.35; ESCI)
- Tehreem Nisar, Asma Lodhi, Muhammad Imran, Anees Ahmed Khalil, Syed Amir Gilani, Shinawar Waseem Ali, and Rai Muhammad Amir. Effect of Carbonated Drinks on Biochemical Parameters of Rat Serum. *Journal of Environmental and Agricultural Sciences*, 14 (2018):32-39



- Aftab Ahmed, Farhan Saeed, Muhammad Umair Arshad, Shinawar Waseem Ali, Ali Imran, Muhammad Afzaal, Azmatullah Khan. Evaluation and Sensorial Assesment of Date Pit-Based Functional Drink. *Journal of Food Processing and Preservation*, 41 (2017) 1-9. doi:10.1111/jfpp.12890 (Impact factor: 0.89)
- Muhammad Ali, Hafiz Azhar Ali Khan, Hafiz Muhammad Tahir, Asad Tariq, Muhammad Ashfaq, Shinawar Waseem Ali, Asim Gulzar, Hafiz Muhammad Umer Aslam, Uzma Khalid, Sajawal Yousaf, Urooj Mubashar. Larvicidal Potential of Different Plants Extracts against the Larvae of Mosquito (*Aedes Aegypti* (L.) (Culicidae:Diptera). *Pakistan Entomologist*, 39 (2017) 37-40. (HEC Recognised)

RESEARCH COLLABORATION

○ Indigenous

- Central Cotton Research Institute, Multan
- Ayub Agricultural Research Institute, Faisalabad
- Environment Protection Department (EPD), Lahore
- Rice Research Centre Bahawalnagar.
- Adaptive Research Farm Gujranwala (Agriculture Department).
- Centre of Excellence in Molecular Biology.
- Higher Education Commission Islamabad.
- Institute of Chemistry, University of the Punjab Lahore.
- Department of Botany, Lahore College for Women University Lahore.
- Department of Chemistry, GC University Lahore.
- Department of Chemistry, FC College University Lahore.
- Department of Botany, University of Gujrat.
- School of Biological Sciences, University of the Punjab, Lahore
- Water Management Training Institute, Punjab, Lahore.
- Department of Botany, Education University.
- Gulberg College, Lahore.
- National Agricultural Research Centre (NARC), Islamabad.
- Balochistan Agriculture College, Quetta

○ Foreign Linkages

- Punjab University – PARB – University of Toronto, Canada
- Punjab University – ICARDA –USDA, University of Arizona, USA
- Punjab University – Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden.

○ Funding grants for R&D

- Prof. Dr. Muhammad Saleem Haider: Principal Investigator in one year (2018) project entitled “Functional characterization of Mastrevirus promoter – An alternative of CaMV 35S Promoter”. Grant Rs.0.250 million by the University of the Punjab



- Prof. Dr. Muhammad Saleem Haider: Co-Principal Investigator in one year (2018) project entitled “Awareness of climate smart agriculture practices among the agri communities for sustainable environment development (under Social Integration Outreach Program (SIOP) of HEC)”. Grant Rs.1.0 million jointly by the University of the Punjab and HEC.
- Prof. Dr. Muhammad Saleem Haider: Co-Principal Investigator in one year (2018) project entitled “Conservation tillage awareness for controlling air pollution from rice straw burning in Punjab (under Social Integration Outreach Program (SIOP) of HEC)”. Grant Rs.1.0 million jointly by the University of the Punjab and HEC
- Dr. Shazia Shafique. Principal Investigator in one year (2017) project entitled “Antagonistic potential of Trichoderma secondary metabolites against Alternaria alternata” Grant Rs.150, 000/-)

INSTITUTE OF APPLIED PSYCHOLOGY

○ **Research & Development: An Overview**

A Centre for Psychological Research and Services has been established as a unit of the Institute of Applied Psychology. The aim is to produce high quality research. All the information on Institutional research is also available on: <http://pu.edu.pk/home/departments/39/Institute-of-Applied-Psychology>. Since its inception, the Centre has also been actively engaged in rendering informal professional services to the individuals. Appropriate services are also provided to the organizations such as: Social Welfare Departments, Prisons, Staff Training Institutions, Civil Defense, Selection Boards, Business Organizations and Educational Institutions. Research projects are integral part of all academic programs and faculty members are actively involved in carrying out individual research as well research supervision.

○ **Projects: Completed**

| Sr. No. | Name of Faculty Member | Project Name | Duration | Sponsoring Agency | Funding Rs. |
|---------|--|---|----------|-------------------|-------------|
| 1 | Dr. Rafia Rafique Associate Professor | Self-Reported and Clinician Rated Mental Health Concerns and Perceived Barriers in Seeking Services among University Students | One Year | Punjab University | 2,00,000/- |
| 2 | Dr. Shazia Khalid Assistant Professor | Sick Building Syndrome and Job Performance in Female Factory Workers | One Year | Punjab University | 1,50,000/- |
| 3 | Dr. Iram Fatima Assistant Professor | Health Locus of Control, Illness Behavior and Headache Related Quality of Life in Migraine Patients | One Year | Punjab University | 1,50,000/- |



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|---|--|--|----------|-------------------|------------|
| 4 | Dr. Afsheen Masood Assistant Professor | Parenting Styles, Family Environment, Suicidal Ideation and Emotional Regulation in Late Adolescents | One Year | Punjab University | 1,50,000/- |
| 5 | Dr. Saima Ghazal Assistant Professor | Child Abuse Risk Literacy: Preventing Child Abuse in Families at High Risk | One Year | Punjab University | 1,50,000/- |
| 6 | Dr. Mujeeba Ashraf Assistant Professor | Violent Video Games and Aggressive Behaviour in Late Childhood | One Year | Punjab University | 1,50,000/- |
| 7 | Dr. Shahnila Tariq Lecturer (on contract) | Moral Foundations, Machiavellianism and Psychopathic Tendencies in University Teachers | One Year | Punjab University | 1,25,000/- |

○ **Conferences, Seminars and Workshops, etc.** (Sponsors, oral Presentation + Post Presentation)

Prof. Dr. Farah Malik

- Workshop on Child Sexual Abuse with Speaker from NJ, USA 7 April 2018
- Organized Lecture on Drug Addiction among Youth on 4th April, 2018 by the Institute of Applied Psychology, University of the Punjab, Lahore.
- March 17th, 2018: Oral presentation: Majeed, S., & Malik, F. "Emotional Behavioral Problems and Anger Expression in School Going Children" in National Conference on "Promoting Mental Health in Schools: A way forward" at University of Management and Technology, Lahore held on 17th March 2018
- March 17th, 2018: Oral presentation: Tariq, M., Majeed, S., & Malik, F. "Emotional Autonomy, Self-Criticism and Psychological Well-Being in Early Adolescence" in National Conference on "Promoting Mental Health in Schools: A way forward" at University of Management and Technology, Lahore held on 17th March 2018
- 3rd May, 2018: Keynote Speaker, Seminar on Role of Media and Mental Health in Pakistani Society, in 1st National Symposium on Media and Mental Health, organized by School of Creative Arts, University of Lahore,
- Keynote Speaker, Seminar on Child Abuse and Sexual Abuse in Pakistani Society: Misconceptions & Community, in Mental health Week, 2018, Lahore College for Women University, Lahore

Prof. Dr. Rukhsana Kausar

- Tehmina Riaz, Nida Zafar and Rukhsana Kausar, "Psychosocial Predictors of Academic Dishonesty in University Students" ORAL presentation in 1st National Conference of Psychology of Emerging Social and Mental and Health Issues in Society (NCP, 2017) held on 12th-13th December, 2017, organized by the Department of Psychology, Lahore Garrison University, Lahore.



- Amna Liaquat and Rukhsana Kausar, PhD, “Resilience and Posttraumatic Growth Among Flood Affected Adolescents” ORAL presentation in in 1st National Conference of Psychology of Emerging Social and Mental and Health Issues in Society (NCP, 2017) held on 12th-13th December, 2017, organized by the Department of Psychology, Lahore Garrison University, Lahore.
- Saba Ashraf and Rukhsana Kausar, PhD “Teacher Acceptance-Rejection and Self-Directed Learning in Matric and O-level Students” ORAL presentation in in 1st National Conference of Psychology of Emerging Social and Mental and Health Issues in Society (NCP, 2017) held on 12th-13th December, 2017, organized by the Department of Psychology, Lahore Garrison University, Lahore.

Dr. Rafia Rafique

- Chaired the Session on Social Integration and Community Wellbeing at the Conference of Psychology (COP 2018): Impact of Global Challenges on Mental Wellbeing (July 6th – 7th, 2018) organized by Riphah Institute of clinical & Professional Psychology (RICCP), Riphah International University, Institute of Professional Psychology, Bahria university, Karachi, Centre for Clinical Psychology, University of the Punjab, Pakistan Association of Clinical Psychologists (PACP), Lahore.
- Presented at the Conference of Psychology (COP 2018): Impact of Global Challenges on Mental Wellbeing (July 6th – 7th, 2018) organized by Riphah Institute of clinical & Professional Psychology (RICCP), Riphah International University, Institute of Professional Psychology, Bahria university, Karachi, Centre for Clinical Psychology, University of the Punjab, Pakistan Association of Clinical Psychologists (PACP), Lahore. “Self-Objectification, Perfectionism and Eating Behaviors in Adolescents”
- Presented at the International Media Conference on Research in Special Education, IMC: Global Education, Professionalism & Commercialism (June 28th – 30th, 2018) 12 organized by Faculty of Media & Commercialism Studies (FMCS), University of Central Punjab, Lahore “Predictors of Quitting Facebook among Youth”
- Presented at the 9th European Conference on Positive Psychology (June 27–30, 2018), Budapest, Hungary “Relational Communication and Marital Satisfaction in Young Pakistani Couples”
- Presented at 1st International Conference on Research in Special Education, ICRSE (April, 2018) organized by Department of Special Education, University of the Punjab, Lahore “Resilience as a Predictor of Psychological Wellbeing in Parents of Children with Cerebral Palsy”
- Presented at 1st National Conference on Promoting Mental Health in Schools: A Way Forward (March 17th, 2018) organized by Institute of Clinical Psychology University of Management and Technology, Lahore “Psychological Correlates of Parental Bonding in young Adults”



- Presented at 16th International Conference on Statistical Sciences: Advances in Statistics and Data Management, its Role in National Growth and Socio Economic Development (Mar 5-8th , 2018) organized by Department of Statistics, Islamia College Peshawar “ Self Efficacy, and Computational Self Concept as Predictors of Statistics Anxiety in University Students”
- Presented at the Two Day International Conference on Women, Media & Translational Perspectives: Working Within and Against the Structures (28 Feb -1st Mar, 2018) organized by Institute of Communication Studies, University of the Punjab (PU), Lahore “Interpretative Phenomological Analysis of Marginalized Women on Psychosocial Challenges from Waziristan Refugee Camp”
- Presented at the 2nd International Conference on Governance and Public Policy (Feb 16-18th, 2018) organized by Fatima Jinnah Women University, Rawalpindi.
- Presented at the 3rd International Conference on Research and Practices in Education: Connecting Collaborative Learning Communities (Feb 16-17th, 2018) organized by Allama Iqbal Open University , Islamabad “ Compulsive Internet Use, Depression and Loneliness in High School Students”
- Participated in 1 Week long Campaign to pay Homage to Martyrs of Army Public School Peshawar and Peace Seminar (Dec, 22nd 2017) at University of the Punjab organized by University Of The Punjab, Lahore & Punjab Higher Education Commission (PHEC).
- Presented at the 1st International Conference on Social Sciences and Humanities (ICSSH) (14-16th Dec, 2017) organized by Virtual University (VU) and Lahore College for Women University (LCWU), Lahore “Sexual Harassment and its Effect on Psychological Wellbeing in Trans- genders: The Moderating Role of Resilience”
- Chaired the Session on Health Psychology at the 1st National Conference of Psychology (NCP): Emerging Social and Mental Health Issues in Society (12-13th Dec, 2017) organized by Garrison University of Lahore, Lahore.
- Presented at the 1st National Conference of Psychology (NCP): Emerging Social and Mental Health Issues in Society (12-13th Dec, 2017) organized by Garrison University of Lahore, Lahore. “Childcare Stress, Stressful Life Events and Attribution Styles in Women with Postpartum Depression”
- Chaired the Session on Use of Internet, Technology and Social Media at the 1st International conference on health and wellbeing (ICHW) (11-13th Dec, 2017) organized by Lahore College for Women University (LCWU), Lahore.
- Presented at the 1st International conference on health and wellbeing (ICHW) (11-13th Dec, 2017) organized by Lahore College for Women University (LCWU), Lahore. “Effect of Distress on Wellbeing in People with Acquired Facial Disfigurement: The Moderating Role of Social Support” “Fear of Negative Evaluation and Shame as a Predictors of Social Functioning in Patients with Vitiligo: Mediating role of Self-consciousness”



- Chaired the Session on Criminology and Neuropsychology of Violence and Crime at International Conference on Peace, Conflict, and Violence: Challenges and Resolution Strategies (ICP) (Nov 29-30th, 2017) organized by Comsats Institute of Information and Technology (CIIT), Lahore.
- Presented at the International Conference on Peace, Conflict, and Violence: Challenges and Resolution Strategies (ICP) (Nov 29-30th, 2017) organized by Comsats Institute of Information and Technology (CIIT), Lahore. "Predictors of Interpersonal Conflict in People with Substance Use Disorder"

Dr. Iram Fatima

- Iram Fatima "Psychometric properties of teenage Non-Violence Test". International conference on Peace Conflict and violence. Department of humanities, COMSATS, Lahore. November, 29-30, 2017
- Amna Maqssod and Iram Fatima "Psychological distress, Anxiety and depression in active and passive smokers "in International conference Health and Well-Being. Department of Applied Psychology, LCWU, Lahore. December, 11-13, 2017.
- Saleha Younas and Iram Fatima "National identity, ethnocentrism and cultural diffusion in Pakistan" 1st international conference on social sciences and humanities by Kinnaird College for Women, Lahore from 25 to 27 April 2018.

Dr. Mujeeba Ashraf

- Organizational silence, Justice perception, Organizational citizenship behavior and Commitment in banking sector employees, 3rd Asia International Conference 2017 (AIC2017) at Kualalumpur, Malaysia
- Perceived Discrimination, religious group identification and personal self-esteem among religious minority groups in Lahore, Pakistan, International society of political psychology (ISPP) 2017 at Edinburgh, UK

Ms. Afifa anjum

- Paper presented at 9th European Congress on Positive Psychology (ECP-2018) by European Network of Positive Psychology in Budapest, Hungary, June -July, 2018.

○ Research Journals Publications

List of the Papers published in Research Journals by the Faculty Members of the Institute is as under:

| Sr. No. | Name of Author | Title of Paper/Article |
|---------|---|---|
| 1 | Faiqa Sabir, Nosheen Ramzan, & Prof. Dr. Farah Malik. | Resilience, Self Compassion, Mindfulness and Emotional Well-being of Doctors. Indian Journal of Positive Psychology, Vol. 9(1), Page 55-59 (X Category). |
| 2 | Ayesha Asghar, Saima Majeed & Prof. Dr. Farah Malik. | Psychological Distress, Affiliate Stigma and Burnout in Caregivers of Patients with Schizophrenia. International Journal of Social Sciences & Educational Studies, Vol. 5(2), Page 73-85. |



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| 3 | Maryam Gul & Prof. Dr. Farah Malik | Development and Validation of Stressful Life Events Scale for Children in Pakistan. Pakistan Journal of Psychological Research, Vol 33(1), Page 239-256. |
| 4 | Saira Khan & Prof. Dr. Farah Malik | Maternal Stress and Behavioral-Emotional Problems in Children with Dyslexia. Journal of Pakistan Psychiatric Society, Vol. 15(3), Page 18-23. |
| 5 | Prof. Dr. Farah Malik | Role of Child Temperament as a Moderator in the Relationship of Parental Perception and Anger Expression in Children. (In Press) Pakistan Pediatric Journal, (Y Category). |
| 6 | Prof. Dr. Farah Malik | Anger and Cognitive Stress Appraisal in Patients with Coronary Heart Disease. (In Press) Pakistan Heart Journal, (X Category). |
| 7 | Prof. Dr. Farah Malik | Gender Differences in Anger Expression of Children within Pakistani Cultural Context. (In Press) International Journal of Social Sciences & Educational Studies, (Y Category). |
| 8 | Vicar Solomon, & Prof. Dr. Rukhsana Kauar | Perception of Psychological Skills in Pakistani Cricketers: An Exploratory Study. Journal of Behavioural Sciences, Vol. 27 (2), 134-148, (X Category). |
| 9 | Anum Fatima Murtaza & Dr. Rafia Rafique | Hope and Depression in Coronary Artery Disease Patients with and without Coronary Artery By Pass Grafting. Journal of Pakistan Psychiatric Society, Vol.15 (2) April-June, Page 17-20, (Y Category). |
| 10 | Zainab Javeed & Dr. Rafia Rafique | Influence of Media on Body Image, Fear of Negative Evaluation and Social Anxiety of Overweight Young Women. Journal of Pakistan Psychiatric Society, Vol. 15(3) September, Page 27-29 (Y Category). |
| 11 | Zaeema Farooq & Dr. Iram Fatima | Predictors of Relational Turbulence in Early Years of Marriage. Journal of Behavioural Sciences, Vol. 28(1), Page 70-87. (X Category). |
| 12 | Naumana Amjad & Afifa Anjum | Aggressive Acts, Thinking, Remorse and Private Self-consciousness – An Examination of Real Life Aggressive Episodes. Pakistan Journal of Psychological Research, Vol. 33(1), Page 277-297. (X Category). |
| 13 | Shahnaila Tariq & Prof. Dr. Rukhsana Kausar | Exploring Dimensions of Deviant Behavior in Adolescent Boys. Journal of Behavioural Sciences, Vol. 28(1), Page 70-87. (X Category). |



○ **Research Journals (Journal of Behavioural Sciences (JBS))**

- The Institute publishes its official journal “Journal of Behavioural Sciences (JBS)” on biannual basis since 1990. JBS has blind peer review policy and is an internationally recognized journal which includes empirical studies, review articles and case studies on a wide range of topics. Higher Education Commission (HEC) of Pakistan has placed JBS in ‘X’ category. It has been indexed and cited in different well-known data bases like Ebscohost, Pro Quest, Asia net and Universal Digital Library (UDL), a Malaysian based on-line library. Recently, PsycInfo (APA) has accepted JBS for abstracting and indexing while correspondence with ISI (Thomas Reuters) is in process for indexing, abstracting and impact factor which speaks volume for the professional and research based caliber of the journal.
- Moreover, publishing of “Psychological Abstracts” is another distinguished feature of Institute. It includes abstracts of research work carried out by students and faculty members of the Institute. Four volumes of “Psychological Abstracts” have been published so far and we aim to make it a regular feature to publish Institutional Research in order to benefit researchers at home and abroad. Additional information on Institutional publication is available on the University webpage. <http://pu.edu.pk/home/journal/24>

RESEARCH COLLABORATION

○ **Indigenous**

- Prof. Dr. Rukhsana Kausar (Co-Principal Investigator), project on “Cognitive and Neurological Functioning of Elderly: A comparison of Punjab and Gilgit Baltistan” with Prof. Dr. Najma Najam, Professor Emeritus, Institute of Applied Psychology and Former Vice Chancellor, Karakoram International University in collaborative with HEC (continued).
- Prof. Dr. Rukhsana Kausar (Principal Investigator) and Dr. Nashi Khan (Co-PI) project on “Efficacy of Children and Disaster Recovery Techniques with Flood Stricken Children in Southern Punjab Pakistan” in collaborative with HEC (continued).
- Prof. Dr. Farah Malik International Project on “Fear of Intimacy” in collaboration with Rohner Centre for Interpersonal Acceptance-Rejection, UCONN, USA funded by PU Research Funding Committee.

○ **Foreign Linkages**

The Institute has foreign academic linkage with:

- Institute has academic linkage with St. Andrew’s University, UK.
- International Council of Professional Therapists (UK).
- Children and War Foundation, Bergen, Norway.

○ **Funding Grants for R&D**

Every year; a huge amount is being spent on Research and Development (R&D). These funds are provided by the University of the Punjab, Lahore and Higher Education Commission (HEC).



INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

○ **R&D-An Overview**

The faculty of IBB enthusiastically pursuing research projects of national interests mainly recombinant production of interleukins, interferon, colony stimulating factors etc. in bacterial and yeast-based expression systems for applications and analysis; implementing cell free/circulating nucleic acids (including DNA, RNA, microRNA) and proteins in diagnosis and prognosis of different pathological states; investigation of endocytic role of human small GTPase Rab28 (versatile regulators that participate directly or indirectly in nearly all steps of membrane transport); purification and applications of industrially important enzymes; production of monoclonal antibodies, peptide hormones, interferon's and cytokines, nanotechnology-based detection of allergens in local environment; linkage studies of autosomal recessive primary microcephaly in Pakistani kindred; characterization of BCR-ABL mutagenesis in CML patients etc.

During this year, the Institute had several publications to its credit. Many research papers were published in peer reviewed international impact factor journals. A highly competitive research grant was also awarded to one of the faculty member.

○ **Projects: completed**

Eight faculty members received research grants from University of the Punjab, to strengthen the research activities of the Institute.

○ **New Projects**

One of the faculty members (Dr. Saima Sadaf) has won the HEC-NRPU research grant of over Rs. 5 million (2018-2021) on a project of national/biomedical importance.

○ **Publications**

| Name of Faculty Member | Title of Research Paper (Review Article) | Name of Publishing Journal | Vol | Impact Factor (IF) |
|---|--|---|-------------|--------------------------|
| Sami AJ, Khalid M, Jamil T, Aftab S, Mangat SA, Shakoori AR, Iqbal S | Formulation of novel chitosan guar gum based hydrogels for sustained drug release of paracetamol | Int J Biol Macromol | 108 2018 | 3.90 |
| Asad Gulzar, Mahmood Ahmed, Muhammad Abdul Qadir, Muhammad Imtiaz Shafiq, Sakawat Ali, Ijaz Ahmad, Muhammad Farooq Mukhtar | Effect of Blanching Techniques and Treatments on Nutritional Quality of Dried Mango Slices During Storage. | Polish Journal of Food and Nutrition Sciences | 68 2018 | 1.697 |



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| Amtul Jamil Sami, Madeeha Khalid, Sara Iqbal, Saira Aftab, Tahir Jamil, , Sarmad Ahmad Mangat, A. R. Shakoori . | Formulation of Novel Chitosan Guar gum based Hydrogels for Sustained Drug Release of Paracetamol. | International Journal of Biological macromolecules | 2017 | 3.12 |
| Amtul Jamil Sami, Madeeha Khalid, Rehman Shehzad, Sana Mughal. | Purification and Bioactivity of Placental Lactogen from water Buffalo, <i>Bubalis bubalis</i> . | Pakistan Journal of Zoology | 2017 | 0.491 |
| Amtul Jamil Sami, Sehrish Bilal, Madeeha Khalid, Mohammad Tahir Nazir. | Inhibition and antifeedant properties of Saponins, derived from a medicinal plant <i>Azadirachta indica</i> the Acetylcholinesterase of <i>Tribolium castaneum</i> and it's in silico comparison with <i>Apis mellifera</i> (Honey bee).. | Pakistan journal of Zoology | (in press) 2017 | 0.491 |
| Nusrat Yasmin, Mahjabeen Saleem, Mamoona Naz, Roquyya Gul and Hafiz Muzzammel Rehman. | Molecular Characterization, Structural Modeling, and Evaluation of Antimicrobial Activity of Basrai Thaumatin-like protein against fungal infection. | BioMed Research International. | 50464 5, 1- 9 | 2.476 |
| Ayesha Zahid, Ammara Muazzam, Sidra Mustafa, Saba Irshad, Malik Siddique Mahmood and Rehman Shahzad. | A Novel Gap Junction Alpha 8 (GJA8) Mutation Associated with a Cingenital Cataract Paient in Pakistan. | Pakistan Journal of Zoology. | 49(4): 1365-1372. | 0.49 |
| Saba Irshad, Ayesaha Ashfaq, Ammara Muazzam and Abida Yasmeen. | Antimicrobial and Anti-Prostate Cancer Activity of Turmeric (<i>Curcuma longa</i> L.) and Black Pepper (<i>Piper nigrum</i> L.) used in Typical Pakistani cuisine. | Pakistan Journal of Zoology. | 49(5):1 665-1669. | 0.49 |
| Abubakar Moawia, Ranad Shaheen, Sajida Rasool, Syeda Seema Waseem, Nour Ewida, Brigit Budde, | Mutations of KIF14 Cause Primary Microcephaly by Impairing Cytokinesis. | Annals of Neurology, | Doi:10. 1002/ana.250 44. | 9.97 |



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|--|---|-----------------------------|-----------------------------------|--------|
| Amit Kawalia, Susanne Motameny, Kamal Khan, Ambrin Fatima, Muhammad Jameel, Fraid Ullah, Talia Akram, Zafar Ali, Uzma Abdullah, Saba Irshad, | | | 2017, | |
| Iqbal, H., Ali, M., Zeeshan, R., Mutahir, Z., Iqbal, F., Nawaz, M. A. H., Rehman, I.-U. | Chitosan/hydroxyapatite (HA)/hydroxypropylmethyl cellulose (HPMC) spongy scaffolds-synthesis and evaluation as potential alveolar bone substitutes. Colloids and Surfaces B: | Biointerfaces | 160, 553-563. | 3.88 |
| Engelholm LH, Riaz A, Serra D, Dagnæs-Hansen F, Johansen JV, Santoni Rugiu E, Hansen SH, Niola F, Frödin M | CRISPR/Cas9 Engineering of Adult Mouse Liver Demonstrates That the Dnajb1-Prkaca Gene Fusion is Sufficient to Induce Tumors Resembling Fibrolamellar Hepatocellular Carcinoma | Gastroenterology | doi: 10.1053/j.gastro.2017.09.008 | 18.187 |
| Lindsey A. Lonowski*, Yoshiki Narimatsu*, Anjum Riaz*, Catherine E. Delay*, Francesco Niola, Zhang Yang, Katarzyna Duda, Henrik Clausen, Hans Wandall, Steen H. Hansen, Eric P. Bennett and Morten Frödin. | Genome editing using FACS enrichment of nuclease-expressing cells and indel detection by amplicon analysis. | Nat. Protocols | 12(3): 581-603) | 10.032 |
| Sattar, M.N., Iqbal, Z., Tahir, M.N., Shahid, M.S., Khurshid, M., Al-Khateeb, A.A and Al-Khateeb, S.A. | CRISPR/Cas9: A Practical Approach in Date Palm Genome Editing. | Frontiers in Plant Sciences | doi: 10.3389/fpls.2017.01469. | 4.298 |
| Syed Raheel Muzavir, Muhammad Shahbaz Aslam, Aftab Ahmad, Abdul Rauf Shakoori. | Cloning and Expression of Thymosin Alpha 1 (Tα1) in <i>E.coli</i> . | Pak. J. Zool. | 2017 | 0.48 |



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|---|---|----------------------------|--------------|--|
| Ayesha Pervaiz, Barizah Malik, Naeem Rashid | Enhancing Soluble Gene Expression of α -amylase <i>Bacillus licheniformis</i> and Purification of Recombinant Protein, | Advances in Life Sciences, | 7 (1): 5-10. | |
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○ **Conferences/ Seminars/ Workshops etc.**

- To celebrate the 20th Anniversary of the Institute, an International Conference on “Trends and Prospects in Molecular Biosciences” was organized by the Institute (October 23-24, 2017)
- Seminar on “New technologies in biomarkers discovery” at Institute of Biochemistry and Biotechnology, University of the Punjab, on 25th April, 2018.

RESEARCH COLLABORATION

○ **Indigenous**

- PCSIR laboratories Lahore
- Sheikh Zayed Hospital Lahore
- Shoukat Khanum Hospital Lahore
- INMOL Hospital Lahore
- Punjab Forensic Laboratory, Lahore
- HEJ Research Institute of Chemistry, Karachi University

SCHOOL OF BIOLOGICAL SCIENCES

○ **Research & Development**

The School of Biological Sciences, now in the 16th year of its existence, has made tremendous progress not only in terms of establishing and developing first rate infrastructure in the fields of Molecular Biology, Enzymology and Protein Chemistry, but also making significant advancement in various research projects initiated by the students for their Ph.D. degrees. All these research projects fall under the category of hard core science trying to unravel vital biological processes with strongly implicating extrapolations towards providing solutions to various economic problems of the country.

○ **Projects: Newly launched**

| S.N. | Name of Researcher/ Sponsoring Agency | Title of research project with duration | Financial support | Main goals |
|------|--|---|----------------------|---------------|
| 1 | Prof. Dr. Naeem Rashid: Higher Education Commission | Discovering missing phosphofructokinase in hyperthermophilic archaeon <i>pyrobaculum calidfontis</i> | Rs.6.824 million | Ongoing |



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| 2 | Prof. Dr. A. R. Shakoori: Pakistan Academy of Sciences | Osteogenic potential of local herb, <i>Cissus quadrangularis</i> : Development of potential drug for osteoporosis 2016-20 | RS.2.499 million | Ongoing |
| 3 | Prof. Dr. M. Waheed Akhtar Higher Education Commission | Engineering enzymes for plant biomass saccharification 2014-2018 | RS.8.395 million | Ongoing |
| 4 | Prof. Dr. M. Waheed Akhtar: Pakistan Academy of Sciences | Designing fusion antigens for diagnostic and prophylactic applications in tuberculosis 2018-2020 | RS.2.48 million | Ongoing |
| 5 | Prof. Dr. M. Waheed Akhtar Higher Education Commission | Study of protein biomarkers for early detection of pathological states 2007 - ongoing | RS.31.642 million | Ongoing |
| 6 | Dr. Sadaf Naz Higher Education Commission | Genetic analysis of disease causing genes for glaucoma in Pakistani population. 2015-18 | Rs. 3.1652 million | Ongoing |
| 7 | Dr. Sadaf Naz Higher Education Commission | Genetics of recessively inherited stable or progressive hearing loss in Pakistan. 2016-19 | Rs. 3.5926 million | Ongoing |
| 8 | Dr. Sadaf Naz Higher Education Commission | Genetic analysis of disease causing genes for glaucoma in Pakistani population. 2016-19 | Rs.1.846 million | Ongoing |
| 9 | Dr. Sadaf Naz Higher Education Commission | Genetic studies of neurological movement disorders and related syndromes 2015-18 | RS. 3.1 million | Ongoing |
| 10 | Dr. Sadaf Naz University of the Punjab | Identification of genes for skeletal dysplasia syndromes in families from Pakistan. 2017-2018 | Rs. 200,000/= | Ongoing |



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| 11 | Dr. Sadaf Naz Deutsche Forschungsgemeinschaft, Germany, LO 1555/8-1, | Molecular characterization of complex movement disorders with predominant dystonic features in consanguineous families. 2015-2018 | €152,240. | Ongoing |
| 12 | Dr. Sadaf Naz University of Minnesota, USA (Principal Investigator) | Molecular characterization of Psychotic disorders in Pakistan. 2016-2017 | psych \$4100 | Ongoing |
| 13 | Dr. Uzma Qaisar Higher Education Commission | Controlling the virulence of pathogenic bacteria by local medicinal plants. 2017-2020 | RS. 1.93 million | Ongoing |
| 14 | Dr. Uzma Qaisar Higher Education Commission | Testing the potential of wrinkled Transcription factor in fiber quality improvement of cotton. 2018-2021 | RS. 2.45 million | Ongoing |
| 15 | Dr. Uzma Qaisar Higher Education Commission | Identification of Molecular Factors Required for Regeneration of Cotton 2017-2020 | RS. 3.45 million | Ongoing |
| 16 | Dr. Naveed Shahzad Higher Education Commission | Investigation of therapeutic potential of indigenous Euphorbiaceous plants against breast cancer by targeting CXCL1 & 2 chemokines 2017-2020 | RS. 3.995 million | Ongoing |
| 17 | Dr. Saima Iftikhar Higher Education Commission | Characterization of immunogenic regions of dengue virus for potential vaccine. 2018-2021 | RS. 6.179 million | Ongoing |

○ **Publications:** Books/Edited

- Tahira Bibi, Musadiq Ali, **Naeem Rashid**, Majida Atta Muhammad and Muhammad Akhtar (2017) Enhancement of gene expression in *Escherichia coli* and characterization of highly stable ATP-dependent glucokinase from *Pyrobaculum calidifontis*. *Extremophiles* (in press).



- Fatima Ahsan, **Qurratulann Afza Gardner, Naeem Rashid**, Greg J. Towers, Muhammad Akhtar (2017) Preventing the N-terminal processing of human interferon α -2b and its chimeric derivatives expressed in *Escherichia coli*. *Bioorganic Chemistry* 76:294-302. doi: 10.1016/j.bioorg.2017.11.016
- Iram Aziz, **Naeem Rashid**, Raza Ashraf, Masood Ahmed Siddiqui, Tadayuki Imanaka and Muhammad Akhtar (2017) Pcal_0632, a phosphorylating glyceraldehyde-3-phosphate dehydrogenase from *Pyrobaculum calidifontis*. *Extremophiles* <https://doi.org/10.1007/s00792-017-0982-7>
- J. Guo, A. R. Coker, S. P. Wood, J. B. Cooper, S. M. Chohan, N. Rashid and M. Akhtar (2017) Structure and function of the thermostable L-asparaginase from *Thermococcus kodakarensis*. *Acta Cryst.* **D73**, 889-895. <https://doi.org/10.1107/S2059798317014711>.
- Raza Ashraf, **Naeem Rashid**, Tamotsu Kanai, Tadayuki Imanaka and Muhammad Akhtar (2017) Pcal_1311, an alcohol dehydrogenase homologue from *Pyrobaculum calidifontis*, displays NADH-dependent high aldehyde reductase activity. *Extremophiles* 21(6):1101-1110. DOI 10.1007/s00792-017-0970-y. <http://rdcu.be/wEN4>
- **Sumera Perveen, Naeem Rashid**, Xiao-Feng Tang, Tadayuki Imanaka and **Anastassios C. Papageorgiou (2017)** Crystal structure and functional characterization of an anthranilate phosphoribosyltransferase from the hyperthermophilic archaeon *Thermococcus kodakarensis*. *FEBS Open Bio* 7: 1217-1230. doi: 10.1002/2211-5463.12264.
- Munir Ahmad, **Qurratul Ann Afza Gardner, Naeem Rashid**, Muhammad Akhtar (2017) Designing structural-motifs for the preparation of acylated proinsulin and their regiospecific conversion into insulin modified at Lys²⁹. *Bioorganic Chemistry* **73**: 147-153.
- Raza Ashraf, Majida Atta Muhammad, **Naeem Rashid** and Muhammad Akhtar (2017) Cloning and characterization of thermostable GroEL/GroES homologues from *Geobacillus thermo pakistaniensis* and their applications in protein folding. *J. Biotech.* **254**: 9-16.
- Furqan Sabir, Muhammad Tayyab, Bushra Muneer, Abu Saeed Hashmi, Ali Raza Awan, **Naeem Rashid**, Muhammad Wasim and Sehrish Firyal (2017) Characterization of recombinant thermostable phytase from *Thermotoga naphthophila*: a step for the fulfilment of domestic requirement of phytase in Pakistan. *Pak. J. Zool.* **49**: 1945-1951. DOI: <http://dx.doi.org/10.17582/journal.pjz/2017.49.6.1945.1951>
- Majida Atta Muhammad, Samia Falak, **Naeem Rashid, Qurra-tul-Ann Afza Gardner, Nasir Ahmad**, Tadayuki Imanaka and Muhammad Akhtar (2017) *Escherichia coli* signal peptidase recognizes and cleaves archaeal signal sequence. *Biochemistry (Moscow)* **82**:821-825. DOI: 10.1134/S0006297917070070
- Jingxu Guo, Wenling Zhang, Alun R. Coker, Steve P. Wood, Jonathan B. Cooper, Shazeel Ahmad, Syed F. Ali, **Naeem Rashid** and Muhammad Akhtar (2017) Structure of the family B DNA polymerase from the hyperthermophilic archaeon *Pyrobaculum calidifontis*. *Acta Cryst.* **D73**: 420-427. <https://doi.org/10.1107/S2059798317004090>.



- Saadia Basheer, **Naeem Rashid**, Raza Ashraf, Muhammad Sohail Akram, Masood Ahmed Siddiqui, Tadayuki Imanaka and Muhammad Akhtar (2017) Identification of a novel copper activated and halide tolerant laccase in *Geobacillus thermopakistanensis*. *Extremophiles* **21**: 563-571. DOI: 10.1007/s00792-017-0925-3
- Iram Aziz, **Naeem Rashid**, Raza Ashraf, **Qamar Bashir**, Tadayuki Imanaka and Muhammad Akhtar (2017) Pcal_0111, a highly thermostable bifunctional fructose-1,6-bisphosphate aldolase/phosphatase from *Pyrobaculum calidifontis*. *Extremophiles* **21**: 513-521. DOI: 10.1007/s00792-017-0921-7
- N. Mills-Davies, D. Butler, E. Norton, D. Thompson, M. Sarwar, J. Guo, R. Gill, N. Azim, A. Coker, S. P. Wood, P. T. Erskine, L. Coates, J. B. Cooper, **N. Rashid**, M. Akhtar and P. M. Shoolingin-Jordan (2017) Structural studies of substrate and product complexes of 5-aminolaevulinic acid dehydratase from humans, *Escherichia coli* and the hyperthermophile *Pyrobaculum calidifontis*. *Acta Cryst.* **D73**: 9–21.
- Majida A MUHAMMAD, Samia FALAK, **Naeem RASHID**, **Nasir AHMED**, **Qurra-tul-Ann A GARDNER**, Anam TARIQ and Muhammad AKHTAR (2017) Complete signal peptide of Tk1884, an α -amylase from *Thermococcus kodakarensis*, is not necessary for extracellular secretion of the enzyme by *Escherichia coli*. *Amylase* **1**: 75-81.
- Iram Aziz, Tahira Bibi, **Naeem Rashid***, Riku Aono, Haruyuki Atomi* and Muhammad Akhtar (2018) A phosphofructokinase homolog from *Pyrobaculum calidifontis* displays kinase activity towards pyrimidine nucleosides and ribose 1-phosphate. *J. Bacteriol.* **200**: e00284-18. (Manuscript selected for Spotlight in *J. Bacteriol.*)
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- Sabah Mansoor, Muhammad Tayyab*, Amna Jawad, Bushra Munir, Sehrish Firyal, Ali Raza Awan, **Naeem Rashid** and Muhammad Wasim (2018) Refolding of misfolded inclusion bodies of recombinant α -amylase: characterization of cobalt activated thermostable α -amylase from *Geobacillus* SBS-4S. *Pak. J. Zoo.* **50**: 1147-1155.
- Shahid Mahmood Chohan and **Naeem Rashid*** (2018) Gene cloning and characterization of recombinant L-Asparaginase from *Bacillus subtilis* strain R5. *Biologia* (2018) **73**: 537–543. <https://doi.org/10.2478/s11756-018-0054-1>
- J. Guo, A. R. Coker, S. P. Wood, J. B. Cooper*, R. M. Keegan, N. Ahmad, M. A. Muhammad, **N. Rashid** and M. Akhtar (2018) Structure and function of the type III pullulan hydrolase from *Thermococcus kodakarensis*. *Acta Cryst.* **D74**: 305-314.
- Tahira Bibi, Musadiq Ali, **Naeem Rashid***, Majida Atta Muhammad and Muhammad Akhtar (2018) Enhancement of gene expression in *Escherichia coli* and characterization of highly stable ATP-dependent glucokinase from *Pyrobaculum calidifontis*. *Extremophiles* **22**: 247-257. <https://doi.org/10.1007/s00792-017-0993-4>



- Fatima Ahsan, **Qurratulann Afza Gardner, Naeem Rashid**, Greg J. Towers, Muhammad Akhtar* (2018) Preventing the N-terminal processing of human interferon α -2b and its chimeric derivatives expressed in *Escherichia coli*. *Bioorganic Chemistry* 76:294-302. doi: 10.1016/j.bioorg.2017.11.016
- Iram Aziz, **Naeem Rashid***, Raza Ashraf, Masood Ahmed Siddiqui, Tadayuki Imanaka and Muhammad Akhtar (2018) Pcal_0632, a phosphorylating glyceraldehyde-3-phosphate dehydrogenase from *Pyrobaculum calidifontis*. *Extremophiles* 22: 121-129. <https://doi.org/10.1007/s00792-017-0982-7>
- **Naeem Rashid** Pcal_0970, an extremely thermostable L-asparaginase from *Pyrobaculum calidifontis* with no detectable glutaminase activity 2018 *Folia Microbiologica* <https://doi.org/10.1007/s12223-018-0656-6> pp 1–8
- Naeem Rashid, Qamar Bashir Extremely stable indole-3-glycerol-phosphate synthase from hyperthermophilic archaeon *Pyrococcus furiosus*. *J. Bacteriol.* doi:10.1128/JB.00284-18
- **Naeem Rashid** A highly stable laccase from *Bacillus subtilis* strain R5: Gene cloning and characterization *Bioscience, Biotechnology, and Biochemistry* 2018 Oct 8:1-10. doi: 10.1080/09168451.2018.1530097.
- YPBJI, Mehwish Khan, **Javed Iqbal (2017)** Development of an RAPD-based SCAR marker for smut disease resistance in commercial sugarcane cultivars of Pakistan. *Crop Protection* 94(1)166-172
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- MUSHTAQ, R., BEHLE, R., LIU, R., NIU, L., SONG, P., **SHAKOORI, A.R.**, JURAT-FUENTES, J.L., 2017. Activity of *Bacillus thuringiensis* Cry1Ie2, Cry2Ac7, Vip3Aa11 and Cry7Ab3 proteins against *Anticarsia gemmatilis*, *Chrysodeixis includens* and *Ceratoptrifurcata*. *J. Inverteb. Pathol.*, 150: 70-72.
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- MUSHTAQ, R., **SHAKOORI, A.R.** AND JURAT-FUENTES, J.L., 2018. Domain III of Cry1Ac is critical to binding and toxicity against soybean looper (*Chrysodeixis includens*) but not to velvetbean caterpillar (*Anticarsia gemmatilis*). *Toxins*, 10:95; doi:10.3390/toxins10030095
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- Shaista Bashir, Mudassir Iqbal, Saima Sadaf, **M. Waheed Akhtar**. Synonymous codon changes at the 5'-end of the gene strongly impact the heterologous protein expression in *Escherichia coli*. *Applied Biochemistry and Microbiology*. 53 (3), 296–303.
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- **Sadaf Naz 2017** Genetic causes of moderate to severe hearing loss point to modifiers. *Clinical Genetics* 91:589-598.
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- **Sadaf Naz 2017** A novel mutation in ALS2 associated with severe and progressive infantile onset of spastic paralysis. *Journal of Neurogenetics*. 31:26-29
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- Effect of milking method, diet and temperature on venom production in scorpions. 2018. Saadia Tobassum , Hafiz Muhammad Tahir, Muhammad Tariq Zahid, **Qurratulann Afza Gardner**, Muhammad Mohsin Ahsan. *J Insect Sci.* 2018 Jul; 18(4): 19. Published online 2018 Sep 4. doi: 10.1093/jisesa/iey081
- Muhammad Usman Qamar, Sidrah Saleem, Usman Arshad, Muhammad Farhan Rasheed, Hasan Ejaz, **Naveed Shahzad** & Shah jahan **2017**. Antibacterial Efficacy of Manuka Honey against New Delhi Metallo-β-Lactamase Producing Gram Negative Bacteria Isolated from Blood Cultures. *Pakistan J. Zool.* 49(6).



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- Naveed Shahzad Prevalence of metallo- β -lactamase IMP and VIM producing gram negative bacteria at different hospitals of Lahore, Pakistan. Pakistan J. Zool., Vol. 50, Iss. 6, pp 2343-2349
- **Naveed Shahzad, Naeem Rashid** The implication of CRISPR/Cas9 genome editing technology in combating human oncoviruses. J Med Virol. 2018; 91:1-13.
- Circulating liver-specific microRNAs as non-invasive diagnostic biomarkers of hepatic diseases in human Journal Biomarkers 10.1080/1354750X.2018.1528631
- **Uzma Qaisar 2017**. Management of Fusarium wilt of tomato by soil amendment with *Cenchrus peenisetiformis* under chromium stress. Physiological and Molecular Plant Pathology. Vol. 97.
- **Uzma Qaisar 2017**. Studies on involvement of Wrinkled1 transcription factor in the development of extra-long staple in cotton. Indian Journal of Genetics and Plant Breeding. Vol. 77
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- S. KHURSHID, A. JAVAID, A. SHOAB, S. JAVED and **U. QAISAR**, 2018. Antifungal activity of aerial parts of *Cenchrus pennisetiformis* against *Fusarium oxysporum* f. Sp. *Lycopersici*. Planta Daninha., Vol 35 Doi:v36:e018166627
- **Uzma Qaisar** Isonitrile-functionalized tyrosine modulates swarming motility and quorum sensing in *Pseudomonas aeruginosa* Microbial Pathogenesis 127 (2019) 288–295
- *Fagonia indica* Repairs Hepatic Damage through Expression Regulation of Toll-Like Receptors in a Liver Injury Model Fareeha Azam,1,2 Nadeem Sheikh, 1 Gibran Ali, 3 and **Asima Tayyeb**2 Journal of Immunology Research Volume 2018, Article ID 7967135, 12 pages <https://doi.org/10.1155/2018/7967135>
- **Asima Tayyeb, Uzma Qaisar** Peganum harmala peptides (PhAMP) impede bacterial growth and biofilm formation in burn and surgical wound pathogens 2018 Nov;31(6 (Supplementary):2597-2605.
- Shakoori, T. A., Zulfiqar, S., Khawaja, K. I. and Masud, F., 2018. Effect of Butyrate on Genetic Expression of Sirt1/AMPK and Akt/mTOR Axes in Murine Adipose Tissue. Pak. J. Zool., 50(2): 515-522
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- Muhammad Tariq Zahid, M. T., Shakoori, F. R., **Zulfiqar, S.**, Al-Ghanim, K. A., Shakoori, A. R. (2018). Growth characteristics, metal uptake and expression analysis of copper metallothionein in a newly reported ciliate, *Tetrahymena farahensis*. Pak. J. Zool., 50(3): 1171-1181
- **Conferences, Seminars and Workshops, etc.** (Sponsors, oral Presentation + Poster Presentation)
 - National Workshop on Recombinant Protein Production & Purification (6th – 11th November, 2017)
 - One day international symposium on Familial Neurological Disorders in Children and Adults: Pakistan - UK collaboration 18th November, 2017
 - National Workshop on Recombinant DNA Technology (April 2-7, 2018)

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **Research & Development**

Since its inception, CAMB is engaged to carry out the goal oriented research in the diversified fields of Molecular Biology related to economic needs of the country for agriculture, health & medicine. CAMB, as a renowned scientific research entity of the University of the Punjab, encourages the osmosis of research from Lab into different sectors of the society. It strives to provide a suitable environment and encourages researchers to work on collaborative research projects to advance knowledge, to propose solutions to some of the major issues of today and to develop new technologies for the future. During 2017-18, the major research work was carried in the following domains.

In addition to the goal oriented research and development, CAMB is also serving the community through rendering its following analytical testing services

- *DNA sequencing & Genotyping*
This facility of the centre is the core facility for DNA sequencing & genotyping in the country and is providing DNA sequencing & Genotyping services to researchers of public & private universities of the country.
- *Forensic DNA analysis for Crime Investigation*
The centre is providing services to the Law enforcement agencies & Courts for DNA analysis in criminal & paternity cases.
- *PCR based Molecular diagnosis of most prevalent infectious diseases*
CAMB is providing PCR based diagnostic services to different hospitals and general public for the diagnosis of Hepatitis B and Hepatitis C.

The whole set up of CAMB represents a unique and most economical mode to optimally utilize the extremely limited resources of personnel and materials.

- **Conferences, Seminars and Workshops, etc.** (Sponsors, oral Presentation + Poster Presentation)
 - Organized an awareness seminar on Road Safety titled “Driving is a privilege not a right” on 23-01-2018.



- Organized one day symposium on “Industrial Biotech and Biorefining” at Centre for Applied Molecular Biology, University of the Punjab, Lahore on 22-01-2018.
- Organized one day symposium on “DNA in Crime Investigation” at Al-Razi Hall, University of the Punjab, Lahore on 05-04-18.
- Attended one International Conference on Trends and Prospectus in Molecular Biosciences at Institute of Biochemistry and Biotechnology from 23-24 October, 2017.
- Presented Poster in 2017 International Conference on Agricultural and Food Sciences (ICAFS2018) & 7th International Conference on Biotechnology and Bioengineering (7th ICBB) ICAFS & ICBB 2017 at M.A Jinnah Campus, Lahore from 25-27 October, 2017.
- Attended an International Conference on Solid State Physics 2017 at Centre of Excellence in Solid State Physics, University of the Punjab from 10-12-17 to 14-12-17.
- Presented Poster in 2nd International Conference on “Advances in Molecular Biology of Plant & Health Sciences & CEMB Alumni Meet” from 20-23 November, 2017 at Centre of Excellence in Molecular Biology, University of the Punjab, Lahore
- Attended a conference on Microbiology & Molecular Genetics organized by Department of Microbiology and Molecular Genetics, University of the Punjab Lahore from 07-08 February, 2018
- Attended two days International Conference on Governance, Management & HR: Strategic Directions organized by Institute of Administrative Science, University of the Punjab Lahore from 20-21 March, 2018

○ **Research Journals**

| Sr. No. | Name of Author | Title of Paper/Article | Name of Journal | Year | Impact Factor |
|---------|---|--|--|----------------|---------------|
| 1. | Muhammad Babar Khawar, Maryam Mukhtar, Mudassar Hassan Abbasi and Nadeem Sheikh | IL-320: A recently identified anti-inflammatory variant of IL-32. | American Journal of Translational Research | November, 2017 | 2.829 |
| 2. | Ifrak Khalid, Muhammad Usman Ghani, Iqbal Bano, Ahsan Waheed Rathore, Mariam Shahid, Alishba Maryam, Muhammad Akram, Muhammad Farooq Sabar | rs1837253, rs1805010 and rs2495636 SNPs as asthma risk factors in Pakistan | Advancements in Life Sciences | November, 2017 | --- |
| 3. | Aman Imran, Hafiza Yasara Qamar, Qurban Ali, Hafsa Naeem, Mariam Riaz, Saima Amin, Naila Kanwal, Fawad Ali, Muhammad Farooq Sabar, And Idrees Ahmad Nasir | Role of Molecular Biology in Cancer Treatment | Iranian Journal of Public Health | November, 2017 | 1.053 |



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|-----|---|---|---|----------------|-------|
| 4. | Khushbkht Khan, Muhammad Adeel Aslam, Fatima tuz Zahra, Hamid Bashir, Muhammad Bilal, Aleena Sumrin | Potential biomarkers for the diagnosis of respiratory tract infection and lungs cancer | Cell Mol Biol | November, 2017 | 0.940 |
| 5. | Shahzadi Javeed, Maha Almas, Muhammad Shahid, Aleena Sumrin, Hamid Bashir, Muhammad Bilal, Zafar Saleem, Ghulam Zahra Jahangir, Samia Afzal, Muhammad Idrees, Iram Amin | <i>Nrf2: A MASTER REGULATOR OF CELLULAR DEFENSE MECHANISM AND A NOVEL THERAPEUTIC FACTOR</i> | Pakistan Journal of Biotechnology | December, 2017 | --- |
| 6. | BrairaWahid, Hamid Bashir, Muhammad Bilal, Khansa Wahid, Aleena Sumrin | Developing a deeper insight into reproductive biomarkers | Clinical and experimental reproductive medicine | December, 2017 | 1.67 |
| 7. | Wahid B, Ali A, Waqra M, Idrees M | An updated systematic review of Zika virus-linked complications | Asian Pacific Journal of Tropical Medicine | January, 2018 | 1.634 |
| 8. | Braira Wahid, Amjad Ali, Shazia Rafique and Muhammad Idrees | Role of altered immune cells in liver diseases: a review. | Gastroenterología y Hepatología | January, 2018 | 1.078 |
| 9. | Muhammad Shahid Riaz Rajokaa, Mingliang Jina, Zhao Haobina, Qi Lia, Dongyan Shaoa, Chunmei Jianga, Qingsheng Huang, Hui Yanga, Junling Shia,*, Nazim Hussain | Functional characterization and biotechnological potential of exopolysaccharide produced by <i>Lactobacillus rhamnosus</i> strains isolated from human breast milk | LWT - Food Science and Technology | March, 2018 | 4.500 |
| 10. | Faidad Khan, Mohsin Ahmad Khan, Nadeem Ahmad, Muhammad Islam Khan, Hamid Bashir, Saad Tahir and Ahmad Usman Zafar | Molecular characterization of pneumococcal surface protein A (PspA), Serotype distribution and antibiotic susceptibility of streptococcus pneumonia strains isolated from Pakistan. | Journal of Infectious Diseases and Therapy | March, 2018 | 0.900 |
| 11. | Muhammad Shahid Riaz Rajoka, Haobin Zhao, Ziyang Lian, Na Li, Nazim Hussain, Dongyan Shao, Mingliang Jin, Qi Li and Junling Shi | Anticancer potential against cervix cancer (HeLa) cell line of probiotic <i>Lactobacillus casei</i> and <i>Lactobacillus paracasei</i> strains isolated from human breast milk. | Journal of food and function | March, 2018 | 3.247 |



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|-----|--|---|---|-------------|-------|
| 12. | Baira Wahid, Amjad Ali, Muhammad Idrees | An Increase in expression of SOCS1 Gene with Increase in Hepatitis C Virus Viral Load. | Journal of interferon and cytokine research | March, 2018 | 2.377 |
| 13. | Muddasir Hassan Abbasi, Sana Fatima, Muhammad Babar Khawar, Shah Jahan and Nadeem Sheikh | An In Vivo Study on Intoxicating Effects of Nerium oleander Water Based Extract on Multiorgans of Wistar Rat. | Canadian Journal of Gastroenterology and Hepatology | March, 2018 | 2.147 |
| 14. | Hussain, Nazim, Zhu, W., Jiang, C., Xu, J., Geng, M., & Wu, X., et al. | Down-regulation of mir-10a-5p promotes proliferation and restricts apoptosis via targeting t-box transcription factor 5 in inflamed synoviocytes. | Bioscience Reports | April, 2018 | 2.87 |
| 15. | Sana Usman, Zara Naz, Komal Saleem, Hamid Bashir, Muhammad Bilal and Aleena Sumrin | The countermeasure for Zika virus: a hard nut to be cracked. | Future Virology | April, 2018 | 1.100 |
| 16. | Abbasi, M.H. Fatima S., Khawar M.B., N. Naz N., Mujeeb K.A., Akhtar T. and Sheikh N. | Dose dependent Acute Phase Response (APR) of aqueous leaves decoction of Nerium oleander in wistar rats. | Journal of Biological Regulators & Homeostatic Agents | April, 2018 | 1.469 |
| 17. | Komal Saleem, Baira Wahid, Amjad Ali, Muhammad Idrees | Unexpected Response Profiles Seen in Hepatitis C Virus-Infected Patients Treated with Sofosbuvir Plus Ribavirin: Five Case Reports. | Viral Immunology | April, 2018 | 1.531 |
| 18. | Munir M, Rafique S, Ali A, Idrees M, Min Kang S | Calculation of Wiener Indices of Thiazolidines: The Potent Inhibitors of Hepatitis B Virus and Hepatitis C Virus Replication | Hepatitis Monthly | April, 2018 | 1.920 |
| 19. | Munir Ahmad Bhinder, Muhammad Yasir Zahoor, Haleema Sadia, Muhammad Qasim, Rukhsana Mubashar, Ghulam Murtaza Anjum, Muhammad Iqbal, Najeeb Ullah, Wasim Shahzad, Muhammad Tariq and Ali Muhammad Waryah, | SE33 locus as a reliable genetic marker for forensic DNA analysis systems | Turkish Journal of Medical Sciences | June, 2018 | 0.600 |



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|-----|--|--|---|--------------|-------|
| 20. | Aleena Ahmad Khan, Rukhsana Perveen, Nadeem Sheikh, Babar Hilal Ahmad Abbasi, Zunaira Batool, Muhammad Shahzad & Sana Kaleem | Genetic polymorphism of 15 autosomal short tandem repeats in Baloch population of Pakistan | International Journal of Legal Medicine | June, 2018 | 2.30 |
| 21. | Aftab M, Amin I, Idrees M, Ali A, Rafique S, Naz S | Molecular Epidemiology of Hepatitis Delta and Hepatitis B Viruses Circulating In Two Major Provinces (East and North-West) of Pakistan | BMC Infectious Diseases | June, 2018 | 2.620 |
| 22. | Zara Naz, Braira Wahid, Shazia Rafique, Amjad Ali, Muhammad Idrees | Expression of SOCS1 and SOCS3 genes in interferon treated and direct acting antiviral drugs treated hepatitis c patients. | Journal of interferon and cytokine research | June, 2018 | 2.419 |
| 23. | Braira Wahid, Muhammad Wasim, Komal Saleem, Muhammad Waqar, Sajjad, Khansa Wahid, Manzoor Hussain & Muhammad Idrees | Poor glycemic control and abrupt onset of diabetes in HCV patients receiving direct-acting antiviral drugs: case series | Future Virology | July, 2018 | 1.210 |
| 24. | Altaf, Saba, Shahid, Mariam, Bano, Iqbal, Kousar, Samra, Ayoub, Muhammad, Aslam, Raheela, Sabar, Muhammad Farooq Sabar, Muhammad Usman Ghani, Tayyab, Ujala, Nadeem Sarooj, Husnain, Tayyab. | Association between genetic variant (rs11650680) of TOP2A and early onset asthma in population of Lahore | Advancements in Life Sciences | August, 2018 | --- |
| 25. | Zara Naz, Sana Usman, Komal Saleem, Sara Ahmed, Hamid Bashir, Muhammad Bilal, Aleena Sumrin | Alpha-Fetoprotein: A fabulous Biomarker in Hepatocellular, Gastric and Rectal Cancer Diagnosis | Biomedical Research | August, 2018 | 0.219 |
| 26. | Safdar Hussain, Mengyao Sun, Zixin Min, Yuanxu Guo, Jing Xu, Nosheen Mushtaq, Nazim Hussain, Fujun Zhang, Yan Han, Peng Xu, Jian Sun and Shemin Lu. | Down-regulated in OA cartilage, SFMBT2 contributes to NFkB-mediated ECM degradation | Journal of cellular and Molecular Medicine | August, 2018 | 4.500 |
| 27. | Zunaira Batool, Rukhsana Mubashar, Nadeem Sheikh, Aleena Ahmad Khan, Muhammad Illyas, Muhammad Shahzad and Sana Kaleem | Genetic analysis of 15 autosomal STRs in Yousafzai population of Pakistan | International Journal of Legal Medicine | August, 2018 | 2.300 |



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| 28. | Ghulam Zahara Jahangir, Shagufta Naz, Muhammad Idrees Khan, Muhammad Zafar Saleem | Rapid RNA extraction from Eucalyptus tree and its down processing for cloning of dehydrin genes. | Advancement in Life Sciences | August, 2018 | --- |
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RESEARCH COLLABORATION

○ Indigenous

- Children Hospital, Lahore
- University of Veterinary and Animal Sciences.
- Shaikh Zayed Hospital
- Ghulab Devi Hospital
- Mayo Hospital, Lahore
- King Edward Medical University, Lahore

○ Funding grants for R&D

Major part of funding was met through centre's own resources (earnings through commercial activities)

Faculty of Oriental Learning

DEPARTMENT OF ARABIC

○ Projects: Completed

| Name of Researcher | Topic of Research | Sponsoring Agency | Approved Amount | Status |
|------------------------|---|-------------------|-----------------|----------|
| Dr. Abdul Majid Nadeem | "اللهجات العربية في الإمارات" | P.U. Lahore | 150000-/- | Continue |
| Dr. Abdul Qadeer | (A Study and Critical Editing of the text of "Riadh ul Faith" by Maulana Faith ul Hassan Saharanpuri) | P.U. Lahore | 150000-/- | Continue |

○ Publications

| Authors Name | Article Name | Journal with Date | Sponsoring Agency |
|----------------------------|--|---|-------------------|
| Prof. Dr. Khaliq Dad Malik | مناهج وتأثيرات في تأليف النحو الأردني | Majallah Al-Qism Al-Arabi Vol. 25, 2018 | P.U. Lahore |
| Dr. Hamid Ashraf Hamdani | التناص الديني في مقامات بديع الزمان الهمذاني | Majallah Al-Qism Al-Arabi Vol. 25, 2018 | P.U. Lahore |



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| “ “ | الشمائل النبوية في الشعر العربي الباكستاني | Jihat-ul-Islam Vol: 11, 2, 2018 | P.U. Lahore |
| Dr. Abdul Majid Nadeem | قضية المعرب والمولد والدخيل وعلماء شبه القارة | Al-Ayyam Vol: 09, 1, June, 2018 | Society for Research in Islamic History & Culture, Karachi. |
| “ “ | الشمائل النبوية في همزية أحمد شوقي | Jihat-ul-Islam Vol: 11, 2, December, 2018 | P.U. Lahore |
| Dr. Hafiz Abdul Qadeer | خورشيد رضوي كي عربي شاعري | Fikr o Nazar Vol: 56, July-December 2018 | Inter Islamic University, Islamabad. |
| Dr. Abu Bakar | المعاجم اللغوية كمصدر لتفسير القرآن: دراسة نقدية | Al-Qalam, Institute of Islamic Studies Vol. 24, S. No. 1, June 2018 | P.U. Lahore |

○ **Books**

| Authors Name | Book Name | Publisher | No. of Pages | Year of Publication |
|-------------------------------|------------------------------|------------------|-----------------|------------------------|
| Prof. Dr. Khaliq Dad Malik | علوم اللسان | Azad Book Depot. | 576 | October, 2017 |
| “ “ | تدريس اللسان العربي | “ “ | 272 | October, 2017 |
| “ “ | اللغة العربية | “ “ | 152 | October, 2017 |
| “ “ | نثر القديم | “ “ | 216 | November, 2017 |
| “ “ | الأدب العربي | “ “ | 160 | November, 2017 |
| “ “ | اللغة العربية | “ “ | 152 | January, 2018 |
| “ “ | تحقيق وتدوين كا طريقه كار | “ “ | 456 | February, 2018 |
| “ “ | الأدب العربي | “ “ | 160 | May, 2018 |
| “ “ | اختبارات اللغة العربية | “ “ | 452 | August, 2018 |
| “ “ | اللغة العربية | “ “ | 152 | September, 2018 |



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| “ “ | الأدب العربي | “ “ | 160 | September, 2018 |
| “ “ | منهج اللسان العربي | “ “ | 248 | September, 2018 |
| “ “ | تطبيق القواعد العربية | “ “ | 296 | September, 2018 |

○ **Conferences, Seminars and Workshops, etc.**

| Conference / Seminar / Workshop | Title & Date | Sponsor | Organizer |
|---------------------------------|--|-----------------------------|---------------------------------|
| Prof. Dr. Khaliq Dad Malik | دو روزہ عالمی کانفرس "شیخ علی ہجویری اور بر صغیر میں روحانی انقلاب 7-6 نومبر، 2017 | محکمہ اوقاف | دریابر حضرت داتا گنج بخش، لاہور |
| Prof. Dr. Khaliq Dad Malik | International Conference on The Life and Teachings of Sayed Usman Bin Ali Hajvery (Data Sahib) and its impact on Harmony of Society 15-16 اگست 2018 | Garrison University, Lahore | Garrison University, Lahore |
| Prof. Dr. Muhammad Qamar Ali | دو روزہ بین الاقوامی کانفرنس، محمد اقبال اور محمد عاکف، فکری مماثلتیں اور تہذیبی اشتراکات 30-31 جنوری 2018 | جامعہ پنجاب، لاہور | جامعہ پنجاب، لاہور |
| Prof. Dr. Muhammad Qamar Ali | Sufism across the subcontinent and Ccentral Asia: Pakistani and French Contributions 6-7 مارچ 2018 | GC University, Faisalabad | GC University, Faisalabad |
| Prof. Dr. Muhammad Qamar Ali | International Conference on The Life and Teachings of Sayed Usman Bin Ali Hajvery (Data Sahib) and its impact on Harmony of Society 15-16 اگست 2018 | Garrison University, Lahore | Garrison University, Lahore |



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| Prof. Dr. Hamid Ashraf Hamdani | The 11 th Bediuzzaman International Symposium on "A Faith Service Through the Guidance of the Qur'an and Sunnah: Positive Action" | The Istanbul Foundation for Science and Culture 01-03- October, 2017 | Istanbul, Turkey |
| Prof. Dr. Hamid Ashraf Hamdani | 1 st International Conference on "Development of Arabic Prose in the 2 nd Half of 20 th Century" | National University of Modern Languages, 18-19 October, 2018 | Islamabad, Pakistan |
| Prof. Dr. Hamid Ashraf Hamdani | 1 st International conference on "Peace and Harmony" | Department of Islamic Studies, 18-20 December, 2017 | Lahore Garrison University |
| Prof. Dr. Hamid Ashraf Hamdani | 2 nd Conference on "Seerat ul Nabi" (S.A.W) | University of Education, Township 28 December, 2017 | Township, Lahore |
| Prof. Dr. Hamid Ashraf Hamdani | 2 nd Two Days International Seerat Conference on "The Stability of Pakistan in the Light of Holy Prophet's (PBUH) Seerat" | Faculty of Oriental Learning Government College Women University, 9-10 January, 2018 | Faislabad |
| Prof. Dr. Hamid Ashraf Hamdani | Two Days International Seerat Conference on "Compatibility on Seerat-e-Rasool with Modern Age and Contemporary Challenges" | Institute of Arabic and Islamic Studies, Govt. College Women University, 21-22 March, 2018 | Sialkot |



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|------------------------|---|--|-------------|
| Dr. Abdul Majid Nadeem | Three Days Workshop "Understanding Scripts of Languages" | Institute of Languages & Linguistics 7-9 August, 2018 | P.U. Lahore |
| Dr. Abdul Qadeer | المؤتمر الدولي للشرق الأوسط (اللغة، التاريخ، الأدب) "صورة المرأة في الشعر العربي المعاصر" | جامعة انقره يلدريم، بيازيد 30-31 October, 2017 | تركي |

○ **Research Journals**

| Journal Name | Editor Name | Remarks |
|--|----------------------------|---------|
| Majallah Al Qism Al Arabi, Department of Arabic, PU, Lahore Issue No. 25 / 2018 | Prof. Dr. Khaliq Dad Malik | Annual |

UNIVERSITY ORIENTAL COLLEGE

○ **Conference, Seminars and Workshops, etc.**

- A delegation of Pakistan Boys Scouts Association Consisting of 130 persons (120 Scouts including 10 senior members) visited Oriental College on November 8, 2017. The delegation was received warmly at the college and a meeting was arranged at the Shirani Hall to honour them.
- Iqbal Day was celebrated on 08-12-2017 at the Shirani Hall.
- An international conference on Muhammad Iqbal and Muhammad Akif was held on 31-01-2018 by the Department of Urdu. This conference was consisted of two sitting, eminent scholars presented (papers on intellectual similarities between Iqbal and Akif).
- A seminar was arranged by the collaboration of Academy of letters held on 13-02-2018 at the Oriental College under the supervision of Dr. Zia ul Hassan.
- A cultural program namely "Chaiten Rung" was celebrated held on 01-03-18 by the Department of Punjabi at the Shirani Hall. A large number of students including teachers participated in the event.
- A prize distribution ceremony 122nd Annual Sports was held on 12-04-2018 presided by Principal Prof. Dr. Muhammad Fakhar ul Haq Noori and International Cricketer Mushtaq Ahmad was the Chief Guest of the event.
- Third Annual Convocation of Oriental College was held on May 8, 2018 presided by Dr. Nasira Jabeen, Acting Vice Chancellor, Punjab University, Chairman Punjab HEC Dr. Nizam ud Din also graced the occasion Principal Prof. Dr. Muhammad Fakhar ul Haq Noori and Dean Prof Dr. Muhammad Saleem Mazhar welcome the guests and spoke the students. More than 194 Degrees M.A in different subject were distributed at convocation.



- A poetry session in connection with Eid and Welcome of Vice Chancellor Punjab University was held on 28-06-2018 at the College teachers and students attended the session
- **Research Journal**
Recognized and historical Research Journal “Oriental College Magazine” has been publishing since 1925.
- **Linkages with Foreign Universities**
 - Al-Jamia Al-Azhar, Cairo, Egypt.
 - Daito Bunka University Tokyo, Japan
 - Ningxia University, China
 - Tehran University, Iran.
 - King Saud University, Al-Riadh, Saudi Arabia
- **Funding Grants for Research Development**
HEC scholarships awarded to faculty members.
Details mentioned in the report of the Teaching Departments of this College

URDU DEVELOPMENT COMMITTEE

اب تک پندرہ سے زائد علوم و فنون سے متعلق کتب شائع ہو چکی ہیں۔ ادارے کی جانب سے شائع کی ہوئی آٹھ کتب مختلف قومی اداروں کی طرف سے انعام پانچنی ہیں۔ ادارے کو یہ امتیاز حاصل ہے کہ اس کی شائع کردہ کتابیں اپنے موضوع پر اردو زبان میں اولین پیش کش کی حیثیت رکھتی ہیں۔

ادارہ تالیف و ترجمہ نے سال ء میں اردو ادب اور دیگر موضوع پر مبنی مندرجہ ذیل کتب شائع کرنے کا اہتمام کیا ہے:

- انتخاب اردو نظم از ڈاکٹر خواجہ محمد زکریا (پروفیسر لئیریلٹس، اردو)
- تصویر کائنات کے رنگ (ڈینش شاعرات) از صدف مرزا
- انتخاب اردو غزل (زیر طبع)
- پنجاب یونیورسٹی کیلنڈر، جلد اول (زیر تکمیل)

Faculty of Pharmacy

PUNJAB UNIVERSITY COLLEGE OF PHARMACY

Research & Development

All teaching faculty in the University College of Pharmacy is involved in Research and Development, in the fields of National priority areas. The research areas/disciplines are: Pharmaceutics (formulation design, Clinical Pharmacy, Biopharmaceutics and Pharmacokinetics), Pharm Chemistry (Analytical, Physical and Medicinal chemistry), Pharmacology and Pharmacognosy, Pharmacy practice and Pharmaceutical biotechnology. This year the College faculty published about 70 publications in the impact factor journals.

- **Projects: Completed**
Total 08 Projects funded by University of the Punjab in the field of Pharmacy have been completed in the year 2017-18



○ **Newly launched**

- More than 12 faculty members applied for newly launched projects funded by University of the Punjab this year.
- Dr. Khalid Hussain has been awarded H.E.C. Project under NRPU scheme.
- Dr. Nasir Abbas has been awarded H.E.C. Project under NRPU scheme.
- Dr. Amjad Hussain has been awarded H.E.C. Project under NRPU scheme

○ **Publications: Books/ Edited**

- Nadeem Irfan Bukhari, Biopharmaceutics and Pharmacokinetics – An activity based learning (2nd Edition) Reprint 3, Raaz Publishers, Lahore Pakistan
- Prof. Dr. Khalid Hussain, Practical Manual for instrumentation and pharmaceutical Analysis. Pharm D student (3rd Edition), Raaz Publishers, Lahore Pakistan
- Imran Tariq, Practical Approach for Pharmaceutical dispensing for Pharm D student (2nd Edition), Raaz Publishers, Lahore Pakistan.
- Amjad Hussain, Manual of Clinical Pharmacy for Pharm D student (4th Edition), Raaz Publishers, Lahore Pakistan.
- Pervaiz Akhter Shah, Practical Manual of industrial Pharmacy for Pharm D student (Revised Edition), Raaz Publishers, Lahore Pakistan.

○ **Publications**

- Shehzadi, N; Hussain, K; Khan, MT; Bukhari, NI; Islam, M; Salman, M; Qamar, S; Iqbal, AA; Siddiqui, SZ; Rehman, A; Abbasi, MA, Radical Scavenging and Endogenous Defence System Inducing Activities of 5-[(4-Chlorophenoxy)methyl]- 1,3,4-oxadiazole-2-thiol: A Novel Antioxidant, Indian J Pharm Sci, 2018,80(6),1125-1135. Impact Factor=0.660
- A, Latif; Hussain, K; Bukhari, NI; Shafi, H; Mazhar, M, Metabolomics and Marker Based Accelerated Stability of Kanji and Ethanol Extract of its Main Ingredient, Daucus Carota L. Roots, Pharmaceutica Analytica Acta, 2018, 9(7), DOI: 10.4172/2153-2435.1000589.
- Hussain, Amjad; Smith, Geoff; Khan, A, Karrar; Bukhari, NI; Pedge, I, Nicholas; Ermolina, Irina, Solubility and dissolution rate enhancement of ibuprofen by co-milling with polymeric excipients, European Journal of Pharmaceutical Sciences, 2018, 123, 395-403. Impact Factor=3.756
- Smith, Geoff; Hussain, Amjad; Bukhari, NI; Ermolina, Irina, Correlation between molecular dynamics and physical stability of two milled anhydrous sugars: Lactose and sucrose, International Journal of Pharmaceutics, 2018, 551, 184-194. Impact Factor=3.649
- Hussain, Amjad; Latif, Sadia; Abbas, Nasir; Irfan, Muhammad; Arshad, Sohail, Muhammad; Bukhari, NI, Hydroxypropyl cellulose-base orally disintegrating films of promethazine HCl for the treatment of motion sickness, Tropical Journal of Pharmaceutical Research, 2018, 17(6), 991-996. Impact Factor=0.569
- Bukhari, NI; Julianto, Tommy; Pereira, Valente, E, Rosa; Hay, K, Yuen; Majeed, A, B, Abu; Kanwal, Ummarah; Ahsan, Muhammad, Computer-Aided Prediction of Cefotaxime Sodium Stability in Aqueous Solution at Different pH from Sparse Data, Latin American Journal of Pharmacy, 2018, 37(3), 571-8. Impact Factor=0.298



- Ejaz Ali, Najma Arshad, Nadeem Irfan Bukhari, Muhammad Nawaz Tahir, Shamail Zafar, Amjad Hussain, Sajida Parveen, Shaista Qamar, Naureen Shehzadi & Khalid Hussain, "Linking traditional anti-ulcer use of rhizomes of *Bergenia ciliate* (Haw.) to its anti-*Helicobacter pylori* constituents", *Natural Product Research*, <https://doi.org/10.1080/14786419.2018.1488711>.
- Sumera Latif, Nasir Abbas, Amjad Hussain, Muhammad Sohail Arshad, Nadeem Irfan Bukhari, Hafsa Afzal, Sualeha Riffat and Zeeshan Ahmad, "Development of paracetamol-caffeine co-crystals to improve compressional, formulation and in vivo performance", *Drug Development and Industrial Pharmacy*, 44(7), 1099-1108, 2018.
- Qurat-ul-ain Shoaib, Nasir Abbas, Muhammad Irfan, Amjad Hussain, Muhammad Sohail Arshad, Syed Zajif Hussain, Sumera Latif, Nadeem Irfan Bukhari, "Development and evaluation of scaffold-base nanosponge formulation for controlled drug delivery of naproxen and ibuprofen", *Tropical Journal of Pharmaceutical Research*, 17(8), 1465-1474, 2018.
- Naureen Shehzadi, Khalid Hussain, Muhammad Islam, Nadeem Irfan Bukhari, Noman Asif, Muhammad Tanveer Khan, Muhammad Salman, Shaista Qamar, Sajida Parveen, Fakhra Zahid, Arshad Ali Shah, Abida Bilal, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui and Aziz-Ur-Rehman, "Development and validation of a stability –indicating RP-HPLC-FLD method for determination of 5-[(4-chlorophenoxy) methyl]-1, 3, 4-oxadiazole-2-thiol; A novel drug candidate", *Pak. J. Pharm. Sci.*, 2(Suppl), 603-609, 2018.
- Naureen Shehzadi, Khalid Hussain, Muhammad Islam, Nadeem Irfan Bukhari, Muhammad Tanveer Khan, Muhammad Salman, Sabahat Zahra Siddiqui, Aziz-Ur-Rehman, Muhammad Athar Abbasi, "Reverse-phase chromatographic determination and intrinsic stability behavior of 5-[4-chlorophenoxy)methoyl]-1,3,4-oxadiazole-2-thiol", *Acta Pharm.*, 68, 409-424, 2018.
- Abbas Nasir, Qazi Amir Ijaz, Amjad Hussain and Nadeem Irfan Bukhari, "Synthesis and evaluation of pH dependent hydrogels", *British Journal of Pharmacy* 2, No.2, 43-44, 2018.
- Nasir Abbas, Sumera Latif, Hafsa Afzal, Muhammad Sohail Arshad, Amjad Hussain, Saleha Sadeeqa, Nadeem Irfan Bukhari, "Simultaneously improving mechanical, formulation and in-vivo performance of Naproxen by co-crystalization", *AAPS Pharm Sci Tech.* DOI:10.1208/s12249-018-1152-7, 2018.
- Maria Mir, Khezar Hayat, Talib Hussin, Muhammad Khurram Waqas and Nadeem Irfan Bukhari, "Ball Mill Co-Milling: A Promising Way to Enhance Aqueous Solubility of Poorly Soluble Drugs Employing Norfloxacin as Model Drug", *Acta Poloniae Pharmaceutica*, 75(1), 155-168, 2018.
- Muhammad Farhan Sohail, Mubashar Rehman, Hafiz Shoaib Sarwar, Sara Naveed, Omer Salman, Nadeem Irfan Bukhari, Irshad Hussain, Thomas J Webster, Gul Shahnaz, "Advancements in the oral delivery of Docetaxel: challenges, current state-of-the-art and future trends", 13, 1345-61, 2018
- Aatqa Rauf, Ummarah Kanwal, Nadeem I. Bukhari, Nasir Abbas, Inamul Haq, Shahiq Uz Zaman & Muhammad M. Ansarf, "Development and Characterization of Taste Masked Ampicillin Microspheres for Pediatric Oral Use", *Latin American Journal of Pharmacy*, 37(w), 321-9, 2018.



- Naureen Shehzadi, Khalid Hussain, Nadeem Irfan Bukhari, Muhammad Islam, Muhammad Tanveer Khan, Muhammad Salman, Sabahat Zahra Siddique, Aziz-Ur-Rehman, Muhammad Athar Abbasi, "Hypoglycemic, hepatoprotective and molecular docking studies of 5-[(4-chlorophenoxy) methyl-], 3,4-oxadiazole-2-thiol", Bangladesh Journal of Pharmacology, 13, 149-56, 2018.
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- **Research Journals**
University College of Pharmacy is publishing regular issue of journal under the name of "Pakistan Journal of Pharmacy"

RESEARCH COLLABORATION

- **Indigenous**
Quite a few Faculty members have collaboration with renowned degree awarding Universities and Research groups awarded in different areas of established in the capacities of being co-supervisors for awarding Ph.D. Degrees
- **Foreign Linkages**
A faculty member has collaboration with DeMont Fort University, UK.

Faculty of Sciences

CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS

- **R&D. An Overview**
The Centre was assigned to start post-M.Sc. level teaching and research, and the Centre got engaged in offering M.Phil. Programme in 1974. Centre was the only institute in Pakistan



offering M.Phil. degree for many years to come and the graduates secured jobs in the National Research Institutes and Educational Departments. Centre has now expanded its M.Phil. programme to offer state-of-the art programmes (Microelectronics and Nanotechnology) in Pakistan. Research Collaborations with UET (Lahore), IUB (Bahawalpur), BZU (Multan), LCWU (Lahore), FCC (Lahore) and NCP (Islamabad) in the country are established. Internationally collaborations with Chinese Academy of Science Beijing (China), Laser Centre UTM (Malaysia), Institute of Electronics York University York (UK) are established. In Pakistan the Centre offers analytical facilities to MS/Ph.D. students of the Universities mentioned.

○ **Projects:** Newly Launched

| Sr. No. | Project | Duration | Sponsoring Agency | Funding |
|---------|---|----------|-------------------|---------|
| 1. | Inkjet-Printed Transparent and Flexible Multifunctional Sensors and Liquid Gauges | 9 months | HEC | HEC |

○ **Publications**

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Digest Journal of Nanomaterials and Biostructures, 13, 2018, 679 0.673

RESEARCH COLLABORATION

○ Indigenous

- University of Engineering & Technology, Lahore
- Lahore College for Women University, Lahore
- Islamia University Bahawalpur
- Bahauddin Zakaria University, Multan
- Govt. College University, Lahore
- Forman Christian College, Lahore
- National Centre of Physics, Islamabad

○ Foreign

- School of Chemistry, University of Manchester, UK
- Chinese Academy of Sciences Beijing, China
- Laser Centre, University Technology Malaysia
- Institute of Electronics, York University, York, UK

CENTRE FOR HIGH ENERGY PHYSICS

○ Research Publications

| Sr. No. | Name of Faculty Member / Co-authors | Title of Research Paper | Name of Publishing Journal |
|---------|---|---|--------------------------------|
| 1 | Dr. Bilal Masud | Existence of relativistic structures in $f(R, T)$ gravity | Astrophysics and Space Science |
| 2 | Dr. Bilal Masud, Dr. Faisal Akram, M. Atif Sultan | Decays and Spectrum of Bottom and Bottom Strange mesons | Eur. Phys. J. A |



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|----|---|--|---|
| 3 | Dr. Maqsood Ahmed Dr. Rashid Ahmed Dr. Sohail Afzal Tahir | Investigations of electronic and thermoelectric properties of half-Heusler alloys XMgN (X = Li, Na, K) by first-principles calculations | <i>Materials & Design.</i> |
| 4 | Dr. Rashid Ahmed | First-Principles Calculations of the stibnite at the level of modified-Becke-Johnson Exchange Potential, | <i>Chinese Journal of Physics</i> |
| 5 | Dr. Rashid Ahmed Dr. S. A. Tahir | Engineering the electronic band structures of novel cubic structured germanium monochalcogenides for thermoelectric applications | J. of Applied Physics |
| 6 | Dr. Rashid Ahmed | Investigations of excitonic states effects on optoelectronic properties of Sb ₂ Se ₃ crystal for broadband photo-detector by highly accurate first principles approach | Current Applied Physics |
| 7 | Dr. Rashid Ahmed | Capacitive and resistive response of humidity sensors based on grapheme decorated by PMMA and silver nanoparticles | Sensors and Actuators B |
| 8 | Dr. Rashid Ahmed | Exploring single layered SnSe honeycomb polymorphs for optoelectronic and photovoltaic applications | Physical Review B |
| 9 | Dr. Rashid Ahmed | Crystallized InBiS ₃ thin films with enhanced optoelectronic properties | Applied Surface Science |
| 10 | Dr. Rashid Ahmed | Structural, Electronic, elastic, and thermal properties of CaNiH ₃ perovskite obtained from first-principles calculations | Chin. Phys. B |
| 11 | Dr. Rashid Ahmed | Thiophene/Graphene Interface Peculiarities for Potential Organic Electronic Applications, | J. Nanomaterials Mol Nanotechnology |



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| 12 | Dr. Rashid Ahmed | Exploring thermoelectric materials for renewable energy applications: The case of highly mismatched alloys based on AlBi _{1-x} Sbx and InBi _{1-x} Sbx, | Intermetallics |
| 13 | Dr. Mohsin Saeed | Novel methods for measuring the optical parameters of the water Cherenkov detector | Nuclear Instruments and Methods A |
| 14 | Dr. Irfan Mahmood | Zero-Curvature Representation of Non-Abelian Quantum Painleve II Equation with Its Darboux Solution | Journal of Physical mathematics |
| 15 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Search for the rare decay $D^+ \rightarrow D^0 e^+ \nu_e$, M. Ablikim et al. (BESIII Collaboration, 092002 (2017) - Published 13 November 2017 | Phys. Rev. D 96 |
| 16 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Improved measurements of two-photon widths of the χ_{c1} states and helicity analysis for $\chi_{c2} \rightarrow \gamma\gamma$, M. Ablikim et al. (BESIII Collaboration), 96, 092007 (2017) - Published 28 November 2017 | Phys. Rev. D |
| 17 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Branching fraction measurement of $J/\psi \rightarrow K_S K_L$ and search for $J/\psi \rightarrow K_S K_S$, M. Ablikim et al. (BESIII Collaboration), 96, 112001 (2017) - Published 4 December 2017 | Phys. Rev. D |
| 18 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Search for the rare decays $J/\psi \rightarrow D^0 e^+ e^- + c.c.$ and $\psi(3686) \rightarrow D^0 e^+ e^- + c.c.$, M. Ablikim et al. (BESIII Collaboration), 96, 111101(R) (2017) - Published 6 December 2017. | Phys. Rev. D |
| 19 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Observation of the helicity-selection-rule suppressed decay of the χ_{c2} charmonium state M. Ablikim et al. (BESIII Collaboration), 96, 111102(R) (2017) –Published 7 December 2017 | Phys. Rev. D |



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| 20 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Observation of $\chi_{c2} \rightarrow \eta' \eta'$ and $\chi_{c0,2} \rightarrow \eta \eta'$, M. Ablikim et al. (BESIII Collaboration) 96, 112006 (2017) - Published 18 December 2017 | Phys. Rev. D |
| 21 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Search for $\psi(3686) \rightarrow \gamma \eta_c(\eta(1405)) \rightarrow \gamma \pi^+ \pi^- \pi^0$, M. Ablikim et al. (BESIII Collaboration) 96, 112008 (2017) - Published 20 December 2017 | Phys. Rev. D |
| 22 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Study of J/ψ and $\psi(3686)$ decays to $\pi^+ \pi^- \eta'$, M. Ablikim et al. (BESIII Collaboration) 96, 112012 (2017) - Published 28 December 2017 | Phys. Rev. D |
| 23 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurement of Singly Cabibbo Suppressed Decays $\Lambda^+ c \rightarrow p \pi^+ \pi^-$ and $\Lambda^+ c \rightarrow p K^+ K^-$ [Phys. Rev. Lett. 117, 232002 (2016)] M. Ablikim et al. and BESIII Collaboration. 120, 029903 (2018) - Published 10 January 2018 | Phys. Rev. Lett |
| 24 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurement of the matrix elements for the decays $\eta' \rightarrow \eta \pi^+ \pi^-$ and $\eta' \rightarrow \eta \pi^0 \pi^0$, M. Ablikim et al. (BESIII Collaboration) 97, 012003 (2018) - Published 10 January 2018 | Phys. Rev. D |
| 25 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurements of the branching fractions for the semileptonic decays $D^+ s \rightarrow \phi e^+ \nu_e$, $\phi \mu^+ \nu_\mu$, $\eta \mu^+ \nu_\mu$ and $\eta' \mu^+ \nu_\mu$, M. Ablikim et al. (BESIII Collaboration) 97, 012006 (2018) - Published 29 January 2018 | Phys. Rev. D |
| 26 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Observation of $e^+ e^- \rightarrow \phi \chi_{c1}$ and $\phi \chi_{c2}$ at $\sqrt{s}=4.600$ GeV, M. Ablikim et al. (BESIII Collaboration) 97, 032008 (2018) - Published 12 February 2018 | Phys. Rev. D |



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| 27 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Observation of a cross-section enhancement near mass threshold in $e+e-\rightarrow\Lambda^-\Lambda$ M. Ablikim et al. (BESIII Collaboration) 97, 032013 (2018) - Published 28 February 2018 | Phys. Rev. D |
| 28 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Study of $\eta(1475)$ and $X(1835)$ in radiative J/ψ decays to $\gamma\phi$, M. Ablikim et al. (BESIII Collaboration) 97, 051101(R) (2018) - Published 6 March 2018 | Phys. Rev. D |
| 29 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurement of $e+e-\rightarrow\pi^0\pi^0\psi(3686)$ at \sqrt{s} from 4.009 to 4.600 GeV and observation of a neutral charmoniumlike structure, M. Ablikim et al. (BESIII Collaboration), , 052001 (2018) - Published 7 March 2018 | Phys. Rev. D 97 |
| 30 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurements of the branching fractions of the singly Cabibbo-suppressed decays $D^0\rightarrow\omega\eta$, $\eta(')\pi^0$ and $\eta(')\eta$, M. Ablikim et al. (BESIII Collaboration) 97, 052005 (2018) - Published 15 March 2018 | Phys. Rev. D |
| 31 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Search for $hc\rightarrow\pi^+\pi^-J/\psi$ via $\psi(3686)\rightarrow\pi^0\pi^+\pi^-J/\psi$, M. Ablikim et al. (BESIII Collaboration) 97, 052008 (2018) - Published 23 March 2018 | Phys. Rev. D |
| 32 | Dr. Talab Hussain Dr. Abrar Ahmad Zafar Dr. Qadeer Afzal Malik BES III Collaboration | Measurement of the absolute branching fraction of $D^*s_0(2317)^\pm\rightarrow\pi^0D^\pm s$, M. Ablikim et al. (BESIII Collaboration), 97, 051103(R) (2018) - Published 26 March 2018 | Phys. Rev. D |



○ **Conferences, Seminars and Workshops, etc**

- 1st International Meeting on Science and Society (IMSS I, 2017) was held on 23-25 November, 2017 at Centre for High Energy Physics, University of the Punjab, Lahore, Pakistan.
- Dr. Bilal Masud delivered an invited talk titled: “How can quark model explain the short range nuclear force?” in the Pakistan Physics Society, GC University Lahore, 30th Jan 2018.
- Dr. Bilal Masud delivered an invited talk titled: “Learning Science from Knowledge beyond Classroom” in the 6th International conference on education: science beyond classroom, organized by the University of Education, Lahore, 15th March 2018.
- Dr. Bilal Masud delivered four invited talks on QCD in 7th School on LHC Physics 06 - 17 August 2018, NCP, Islamabad.
- Dr. Bilal Masud delivered a talk on QCD, in a parallel session in the 10th International Scientific School, 12-16 March, 2018, NCP, Islamabad.
- Dr. Talab Hussain participated in BESIII Collaboration Meeting (June 27 to July 01, 2018) held at Institute of High Energy Physics, Beijing, China and presented a talk on “Measurement of $\Upsilon(4260)$ Decays To Λ Λ bar X ”.

RESEARCH COLLABORATION

○ **Foreign Linkages**

Centre for High Energy Physics, University of the Punjab, is member of Beijing Spectrometer III (BESIII) Collaboration. CHEP faculty members: Dr. Abrar Ahmed Zafar, Dr. Qadeer Afzal Malik and Dr. Talab Hussain continued the collaborative research activities in this regard.

- Dr. Bilal Masud and Dr. Faisal Akram continued collaborative research with the following researchers abroad:
 - Dr. Eric Swanson, Pittsburg University, USA.
 - Dr. Sadataka Furui, School of Science and Engineering, Teikyo University, Utsunomiya, Japan.
 - Dr. Adnan Bashir, Universidad Michoacana, Morelia, Mexico.
 - Dr. Arfin Lodhi, Research Professor, Texas Tech University, Physics Department, USA
- Dr. Irfan Mahmood continued collaborative research with the following researchers:
 - Dr. Vladimir Roubtsov, Dr. Mattia Coffaso, Department of Mathematics, 1-LAREMA, CNRS, France
 - Prof. Vladimir Retakh, Department of Physics, Rutgers University, USA

CENTRE FOR INTEGRATED MOUNTAIN RESEARCH

○ **An Overview**

The Centre has been established to address the demands of integrated sustainable research and development of mountainous areas of Pakistan. To meet these challenges, the framework of CIMR is organized into five thematic research and development divisions:



- Mountain Resource Division (MRD)
- Resource Development Division (RDD)
- Resource Management Division (RMD)
- Project Planning Division (PPD)
- Documentation Division (DD)

○ **Projects**

Research Projects funded by University of the Punjab

- An appraisal of climate change impacts on the hydrology of the mountainous catchment, Upper Indus Basin Pakistan. Submitted in University of the Punjab. P.I Dr. Khalida Khan
- Assessment, analysis and management of meteorological drought in Punjab-Pakistan: A study of some affected districts” funded by PU,Lahore

○ **Newly launched**

- Causes, consequences & occurrence of extreme weather events and climate variability in Punjab-Pakistan: a spatio-temporal analysis. Submitted in University of the Punjab. P.I Dr. Safdar Ali Shirazi
- “Detection of land cover changes in Baluchistan (shared between Iran, Pakistan and Afghanistan) using satellite remote sensing products” Funded by Pakistan Science Foundation, Islamabad(in progress)
- Causes, consequences & occurrences of extreme weather events and climate variability in Punjab-Pakistan: A spatio-temporal analysis(in progress, funded by PU,Lahore)
- Quantitative appraisal of mountainous catchments characteristics and their implications for hydrologic processes in Upper Indus Basin Pakistan. Submitted in University of the Punjab P.I: Engr. Dr. Muhammad Yaseen
- **MPhil/ PhD Research Projects**
 - Solid waste and its impacts on climate change through GHG emission and sustainable waste management in Lahore region, Punjab-Pakistan
 - Climate Change Impacts on Glacier and Snowmelt Runoff of Mountainous Catchment using Remote Sensing and Snow Runoff Modelling – Case Study Gilgit Baltistan
 - Hazard Risk modelling of Glacial Lake Outburst under changing climate, Upper Indus Basin Pakistan
 - Role of forestry in sustainable development in socio economic uplift of the farming community of Soon Valley, Punjab-Pakistan
 - Geo-spatial Techniques for Assessment of Potential water Harvesting Sites and conservation Capacities, Pothwar Region Pakistan
 - Climate change impacts on landcover/landuse of PothwarPlatu, District Chakwal-Pakistan



- Evaluation of morphometric parameters and their implications for hydrologic processes in mountainous catchments of Upper Indus Basin Pakistan
 - Integrated Land and Water Resources Management for Food Security and Environmental Sustainability in mountainous region of Pakistan
 - Assessment and monitoring of Agriculture drought by using Remote Sensing and GIS techniques in Pothwar region of Pakistan
 - Monitoring and Assessment of Soil Loss in Soan River Basin by the integration approach of RS and GIS based hydrological model
 - Mapping and Prediction Of Ground Water Potential Zones For The Sustainability of Ground Water Resources By Integrated approach RS and GIS
 - Estimation of above ground forest biomass in Nalter Valley of Gilgit Baltistan (REDD+)
 - The spatial assessment of the hydrological indicators and their impact on the ecological perturbation of Mangla Watershed, Pakistan
 - Cumulative impacts assessment & management of proposed Chiniot dam, Kirana Hill, Punjab-Pakistan
 - Geo-spatial techniques for Disaster Risk Reduction and Management of Proposed Chiniot Dam Project, Kirana Hill, Punjab-Pakistan
 - The critical analysis of implementation of environmental management plan at Neelum Jhelum Hydropower Project.
 - Flood Risk Analysis of the River Chenab Under future Climatic Change Scenarios in the selected Reach
- **Book /Book Chapters**
- Identification of Soil (زمینوں کی پہچان)
 - MOUNTNEWS, revival of the only Magazine in the country on the mountainous regions, (7 Issues Published)
 - Land Resource of Pakistan Book (in process)

CENTER FOR UNDERGRADUATE STUDIES

Centre has produced 38 research articles of good impact, published in journals of national and international repute. Faculty members of Centre also participated and presented papers in different National and International Conferences.

○ **Projects completed**

| Name of Researcher | Sponsoring Agency | Financial Support | Research Area |
|---------------------------|--------------------------|-------------------|---------------|
| Dr. Najam ul Sehar Afshan | University of the Punjab | 1,50,000 | Botany |
| Dr. Shabnam Javed | University of the Punjab | 1,50,000 | Chemistry |
| Dr. Nighat Jamal | University of the Punjab | 1,50,000 | French |
| Dr. Bushra Nisar Khan | University of the Punjab | 1,50,000 | Zoology |
| Dr. Sadaf Aslam | University of the Punjab | 1,25,000 | Zoology |



○ **Newly launched**

| Name of Researcher | Sponsoring Agency | Financial Support | Research Area |
|---------------------------|---|-------------------|---------------|
| Dr. Najam ul Sehar Afshan | Higher Education Commission of Pakistan (HEC) | 4.68 Million | Botany |
| Dr. Shabnam Javed | Higher Education Commission of Pakistan (HEC) | 14 Million | Chemistry |

○ **Publications (books & chapters)**

| Sr. No. | Name of faculty members | Title of research paper | Name of publishing journal | Volume/Page no. |
|---------|---------------------------|---|--|--|
| 01 | Dr. Najam ul Sehar Afshan | Review Of The 11th International Mycological Congress (Imc11). | <i>Ciencia, Ambiente y Clima (Dominican Republic),</i> | (2018), 1(1): 71-73 |
| 02 | Dr. Najam ul Sehar Afshan | New reports of the plant pathogens <i>Aecidium viburni</i> and <i>Erysiphe viburni</i> on <i>Viburnum grandiflorum</i> from Pakistan. | <i>Mycotaxon</i> | (2018), 133: 551-557 |
| 03 | Dr. Najam ul Sehar Afshan | First report of <i>Melampsora dimorphospora</i> on white willow in Pakistan. | <i>Journal of Plant Pathology</i> | (2018), 101,197 https://doi.org/10.1007/s42161-018-0147-2 |
| 04 | Dr. Najam ul Sehar Afshan | The genus <i>Coprinellus</i> (Basidiomycota; Agaricales) in Pakistan with the description of four new species. | <i>Mycokeys</i> | (2018), accepted |
| 05 | Dr. Najam ul Sehar Afshan | <i>Xanthagaricus pakistanicus</i> sp. nov. (Agaricaceae), the first report of the genus from Pakistan | <i>Turkish Journal of Botany</i> | (2018), 42: 123-133 © TÜBİTAK doi:10.3906/bo-1705-21 |
| 06 | Dr. Najam ul Sehar Afshan | Underexplored regions of Pakistan yield five new species of <i>Leucoagaricus</i> | <i>Mycologia</i> | (2018), 110 (2): 387-400. doi: 10.1080/00275514.2018.1439651 |
| 07 | Dr. Najam ul Sehar Afshan | The genus <i>Parasola</i> in Pakistan with the description of two new species. | <i>Mycokeys</i> | (2018), 30: 41-60. doi: 10.3897/mycokeys.30.21430 |
| 08 | Dr. Najam ul Sehar Afshan | First report of the uredinal and telial states of <i>Puccinia heraclei</i> in Pakistan | <i>Journal of Plant Pathology</i> | (2017), 99 (3): doi: 10.4454/jpp.v9i3.3964 |
| 09 | Dr. Najam ul Sehar Afshan | <i>Euoidium veroniicola</i> , a new report for Pakistan. | <i>Plant Pathology & Quarantine</i> | (2017), 7(2): 142-144. |



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|----|---------------------------|--|---|--|
| 10 | Dr. Najam ul Sehar Afshan | <i>Parasola malakandensis</i> sp. nov. (Psathyrellaceae; Basidiomycota) from Malakand, Pakistan. | <i>Mycoscience</i> | (2017), 58(2): 69-76. http://dx.doi.org/10.1016/j.myc.2016.09.002 |
| 11 | Dr. Najam ul Sehar Afshan | <i>New reports and host records of Rust fungi from Pakistan.</i> | <i>Bangladesh Journal of Botany</i> | (2017), 46(1): 73-81. |
| 12 | Dr. Najam ul Sehar Afshan | First Report of Rust Caused by <i>Pucciniastrum guttatum</i> on <i>Galium</i> sp. from Pakistan | <i>Plant Disease</i> | (2017), 101 (1): 245. doi.org/10.1094/PDIS-04-16-0544-PDN |
| 13 | Dr. Amara Dar | Microwave Assisted Urea Modified Bengal Gram Husk for the Batch Wise Removal of Methylene Blue from Aqueous Medium | <i>Journal of Analytical and Environmental Chemistry</i> | (2018), 19(2) |
| 14 | Dr. Bushra Nisar Khan | Impact of Different Captive Environmental Conditions on Behavior of African Lions and their Welfare at Lahore Zoo and Safari Zoo, Lahore | <i>Pakistan Journal of Zoology</i> | (2018), 50(2) |
| 15 | Dr. Bushra Nisar Khan | Assessment of Seasonal Distribution and Threats to Avian Fauna of Lahore Safari Zoo | <i>Pakistan Journal of Zoology</i> | (2018), 50(2) |
| 16 | Dr. Bushra Nisar Khan | Study of Vertebrate Diversity at Lal Suhanra National Park, Pakistan | <i>The Journal of Animal & Plant Sciences</i> | (2018), 28(6) |
| 17 | Dr. Bushra Nisar Khan | Diet Preferences and General Behavior of Peafowls in Captive Environment | <i>PU, Journal of Zoology</i> | (2018), (accepted) |
| 18 | Dr. Arooj Naseer | A New Record of Genus <i>Craterellus</i> , Edible Basidiomycotous Fungus from Pakistan. | <i>Saudi Journal of Medical and Pharmaceutical Sciences</i> | (2018), 656-659. doi10.21276/sjmps.2018.4.6.2 |
| 19 | Dr. Arooj Naseer | A global view of <i>Gyroporus</i> : molecular phylogenetics, diversity patterns, and new species. | <i>Mycologia</i> | (2018) On-line available. |
| 20 | Dr. Arooj Naseer | <i>Amanita pallidorosea</i> in Pakistan and its ectomycorrhizal association with <i>Quercus oblongata</i> . | <i>Mycotaxon</i> | (2017), 132: 799-811. |
| 21 | Dr. Arooj Naseer | A new species of <i>Inocybe</i> (Agaricomycetes, Inocybaceae) in the <i>Inosperm</i> a clade from Pakistan | <i>Mycotaxon</i> | (2017), 132: 909-918. |
| 22 | Dr. Shabnum Javeed | Antifungal activity and GC-MS analysis of aerial parts of <i>Cenchrus pennisetiformis</i> against <i>Fusarium oxysporum</i> f. sp. lycopersici | <i>Planta Daninha</i> | (2018), 36: 1-10 DOI: 10.1590/S0100-83582018360100023 |
| 23 | Mrs. Robina Begum | Synthesis and characterization of poly(N-isopropylmethacrylamide-co-acrylic acid) microgels for in situ fabrication and stabilization of silver nanoparticles for catalytic reduction of o-nitroaniline in aqueous medium" | <i>Journal of Cleaner Production</i> | (2018), 132(1): 89-97 |



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| 24 | Mrs. Robina Begum | Catalytic reduction of toxic dyes in the presence of silver nanoparticles impregnated core-shell composite microgels | <i>Macromolecular Chemistry and Physics</i> | (2018), 211: 855-864 |
| 25 | Mrs. Robina Begum | Silver Nanoparticles Engineered Polystyrene-poly(N-isopropylmethacrylamide-acrylic acid) Core Shell Hybrid Polymer Microgels for Catalytic Reduction of Congo Red | <i>Environmental Science and pollution research</i> | (2018), 219(18) : 180021 |
| 26 | Mrs. Robina Begum | Poly(N-isopropylmethacrylamide-acrylic acid) microgels as adsorbent for removal of toxic dyes from aqueous medium | <i>Journal of Molecular Liquids</i> | (2018) 268: 229-238 |
| 27 | Mrs. Robina Begum | Synthesis and characterization of pH-responsive organic-inorganic hybrid material with excellent catalytic activity | <i>Journal of Inorganic and Organometallic Polymers and Materials</i> | (2018), 28(5): 1872-1884 |
| 28 | Mrs. Robina Begum | Removal of Congo red dye from aqueous medium by its catalytic reduction using NaBH ₄ in the presence of various inorganic nano-catalysts: A review | <i>Journal of Cleaner Production</i> | (2018), 187(1): 296-307 |
| 29 | Mrs. Robina Begum | A systematic study for removal of heavy metals from aqueous medium using Sorghum bicolor: An efficient biosorbent | <i>Water Science and Technology,</i> | (2018), 17(10): 2355-2368 |
| 30 | Mrs. Robina Begum | Applications of UV/vis spectroscopy in characterization and catalytic activity of noble metal nanoparticles fabricated in responsive polymer microgels: A review | <i>Critical Reviews in Analytical Chemistry</i> | (2018), 48(6): 503-516 |
| 31 | Mrs. Robina Begum | Designed synthesis of silver nanoparticles in responsive polymeric system for their thermally tailored catalytic activity towards hydrogenation reaction | <i>The Korean Journal of Chemical Engineering,</i> | (2018), 35 (5): 1099-1107 |
| 32 | Mrs. Robina Begum | Synthesis and Characterization of inorganic-organic hybrid microgels for catalytic reduction of 4-nitroaniline in aqueous medium | <i>Polymer Composites</i> | (2018), 39(3): 645-653 |
| 33 | Mrs. Robina Begum | Advancement in Multi-Functional Poly(styrene)-Poly(Nisopropylacrylamide) Based Core Shell Polymer Microgels and their Applications | <i>Polymer Reviews</i> | (2018), 58(2): 288-325 |
| 34 | Mrs. Robina Begum | Engineering of responsive polymer based nano-reactors for facile mass transport and enhanced catalytic degradation of 4-nitrophenol | <i>" Journal of Environmental Sciences</i> | (2018), 72(1): 43-52 |
| 35 | Mrs. Robina Begum | Platinum Nanoparticles Fabricated Multi-Responsive Microgel Composites: Synthesis, Characterization and Applications | <i>Polymer Composites</i> | (2018), 39(7): 2167-2180 |
| 36 | Mrs. Robina Begum | Catalytic Reduction of 2-nitroaniline: A Review | <i>Environmental Science and Pollution Research,</i> | (2018), 24(7): 6446-6460 |
| 37 | Mrs. Robina Begum | Catalytic Reduction of 4-Nitrophenol using silver nanoparticles engineered poly (N-isopropylacrylamide-co-acrylamide) hybrid microgels | <i>Applied Organometallic Chemistry</i> | (2017), 31(2): e3563 |
| 38 | Mrs. Robina Begum | Responsive Hybrid Microgels for Catalytic Applications: A Review | <i>Materials Science and Technology</i> | (2017) 33 (2): 129-137 |



○ **Publications** (books & chapters)

| Author | Title | Publisher |
|-----------------------|-------------------------------------|--|
| Dr. Bushra Nisar Khan | GIDH, Aik-Qudrati khakrob (In Urdu) | Urdu Science Board, Ministry of Information Broadcasting and National Heritage, Government of Pakistan |

Conferences/Seminars

| Name | Title | Conference / Oral or Poster Presentations | Date | Country |
|---------------------------|--|--|------|---------------------|
| Dr. Najam ul Sehar Afshan | <i>Podoshiera aphanis</i> , A new record for Pakistan | CMAPS-17 | 2017 | Pakistan (Lahore) |
| Dr. Najam ul Sehar Afshan | <i>Psathyrella fusiforma</i> sp. nov. (<i>Psathyrellaceae</i>), new species from Pakistan | CMAPS-17 | 2017 | Pakistan (Lahore) |
| Dr. Najam ul Sehar Afshan | GIS-Based predictive modeling of rust fungi in Himalayan Box plants in Pakistan, | CMAPS-17 | 2017 | Pakistan (Lahore) |
| Dr. Najam ul Sehar Afshan | First Report of white Rust caused by <i>Albugo bliti</i> on <i>Achyranthus</i> from Shawar valley (Swat), Pakistan | CMAPS-17 | 2017 | Pakistan (Lahore) |
| Dr. Najam ul Sehar Afshan | Diversity and Distribution of Plant pathogenic fungi in district Upper Dir, KP, Pakistan, | 7 th International and 16 th National conference on "Plant Resources: Current Trends, Challenges and Solutions | 2017 | Pakistan (Peshawar) |
| Dr. Najam ul Sehar Afshan | Taxonomy and Phylogeny of some <i>Uromyces</i> species from Pakistan | 7 th International and 16 th National conference on "Plant Resources: Current Trends, Challenges and Solutions | 2017 | Pakistan (Peshawar) |



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| Dr. Najam ul Sehar Afshan | Status of Rust fungi on Polygonaceae in Pakistan; Some new reports and an updated checklist of recorded species | 11 th International Mycological Congress 2018 | 2018 | USA |
| Dr. Najam ul Sehar Afshan | Diversity and Distribution of order Pezizales (Ascomycetes) in Pakistan | 11 th International Mycological Congress 2018 | 2018 | USA |
| Dr. Najam ul Sehar Afshan | New records of rust fungi (Pucciniales, Basidiomycota) from the Himalayan Forests of Pakistan | 11 th International Mycological Congress 2018 | 2018 | USA |
| Dr. Bushra Nisar Khan | Sustainable Management Plan for Conservation of Wetland Natural Resources | 38th Pakistan Conference of Zoology | 2018 | Pakistan (Lahore) |
| Dr. Bushra Nisar Khan | Occurrence & Management of Endoparasitic fauna of Ostriches during winter season at different captive sites of Punjab | ICBS | 2018 | Pakistan (Lahore) |
| Dr. Bushra Nisar Khan | Presence of Heavy Metals as Pivotal Source of Water Contamination in Mangla Dam, AJK | Capital University of Science and Technology, Islamabad | 2018 | Pakistan (Islamabad) |
| Dr. Bushra Nisar Khan | Efficacy of Medicinal Plants to Control Endoparasitic Infections in Ostrich (<i>Struthio camelus</i>) Farms of Punjab | 27 th National and 15th International Chemistry Conference | 2018 | Pakistan |



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|-----------------------|---|---|------|----------------------|
| Dr. Bushra Nisar Khan | Heavy Metal Toxicity in Commercially Important Fishes of Mangla Dam, AJK | New Trends in Computational Sciences-II: Public Health, Food, Nutrition and Safety NTNS-II. | 2018 | Pakistan |
| Dr. Bushra Nisar Khan | Poor Law Enforcement: A Threat for Wildlife Protection and Conservation | 13th Annual Conference of ZAA | 2018 | USA (New Jersey) |
| Dr. Shabnum Javed | Bioassay-Guided Fractionation through Cytotoxic Activity of <i>Sorbaria tomentosa</i> | 1 st National Conference on Medicinal Plants Research | 2018 | Pakistan (Gilgit) |
| Dr. Shabnum Javed | Poster Presentation | 1 st International Conference on Medicinal Chemistry & Drug Discovery, COMSTECH | 2018 | Pakistan (Islamabad) |
| Dr. Shabnum Javed | As Resource Person | One Day Awareness Seminar Regarding TDF projects | 2018 | Pakistan |
| Dr. Arooj Naseer | Molecular and phylogenetic characterization of ectomycorrhiza of family Sclerodermataceae from dry temperate forests of Pakistan ^[SEP] | 3 rd International Conference on Bio-Sciences-2018 | 2018 | Pakistan |
| Dr. Arooj Naseer | Himalayan Oak—An Excellent Host for ectomycorrhizal association. | 2nd International Conference of Plant Sciences (ICPS-2018) | 2018 | Pakistan |
| Dr. Sadaf Aslam | Participated and presented paper | 38th Pakistan Congress of Zoology | 2018 | Pakistan |
| Dr. Sadaf Aslam | Participated | International conference on Trends & Prospects in Molecular Biosciences | 2017 | Pakistan |



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|-------------------|--|---|------|-------------------|
| Dr. Sadaf Aslam | Participated | 2nd International Conference on Innovative Biological and Public Health Research | 2018 | Pakistan (Lahore) |
| Dr. Sadaf Aslam | Participated | National Workshop on Intellectual Property Protection for the Inventions Related to Agriculture and Animal Sciences | 2018 | Pakistan |
| Mrs. Robina Begum | Attended Royal Society of Chemistry (RSC), North West Regional Meeting | University of Liverpool, UK | 2018 | UK |
| Mrs. Robina Begum | Silver nanoparticles loaded polymer microgels for catalytic reduction of Malachite Green | RSC Dalton | 2018 | UK |
| Mrs. Robina Begum | Systematic study of catalytic reduction of m-nitroaniline in the presence of responsive nano-hybrid catalyst | UK Catalysis Conference 2018 organized by School of Chemical Engineering and Analytical Science, | 2018 | UK |
| Mrs. Robina Begum | Attended the 2 nd Romark Medicinal Chemistry Symposium featuring the BMCS Lectureship | University of Liverpool, UK | 2018 | UK |

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

○ Research and Development

Faculty members of the CEES are actively engaged in the Research and Development activities and working on various research projects funded by the University of the Punjab, Lahore during the academic session as detailed below:



○ **Projects:** Completed

| Sr. No. | Faculty Member as Principal Investigator | Title of Project | Grant / funding (Rs.) | Funded by |
|---------|--|--|-----------------------|--------------|
| 1 | Prof. Dr. Sajid Rashid Ahmad | Geo-Spatial Application for Determination of Wastewater Quality with Human Health Risk Assessment along Sattukatla Drain, Lahore | 200,00/- | P.U., Lahore |
| 2 | Dr. Nadia Jamil | Biochar Based Nanocomposite: its Synthesis, Characterization and Application in Agriculture | 150,000/- | P.U., Lahore |
| 3 | Dr. Abdul Qadir | Risk Surveillance of Glyphosate Contamination in Groundwater from Cultivated Land of upper Rachna Doab, Pakistan | 150,000/- | P.U., Lahore |
| 4 | Dr. Irfan Ahmed Shaikh | Reuse of Textile Dyeing Wash-off Wastewater A Zero Liquid Discharge Approach. | 150,000/- | P.U., Lahore |
| 5 | Dr. Yumna Sadeef | Estimation of Antioxidant Activity, Total Phenolic Content and Nutritional Facts of Common Fruit Waste Peels. | 150,000/- | P.U., Lahore |

○ **Newly Launched**

Faculty members of the CEES have submitted the research proposals to the Punjab University and the Higher Education Commission (HEC), Islamabad for allocation of Research grants.

○ **Publications**

| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|--|------|---|--------------------------------|---------------|---|
| 1. | Yousaf, W., Hashmi, SGMD, Akram, U., Saeed, U., Ahmad, S.R. , Umar, M. and Mubashir, A. | 2018 | Erosion Potential Assessment of Watersheds through GIS-Based Hypsometric Analysis: A Case Study of Kurram Tangi Dam | Arabian Journal of Geosciences | 0.860 | 11:711 doi.org/10.1007/s12517-018-4059-4 |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|---|------|---|--|---------------|--|
| 2. | Hameed, S., Mahmood, N. Chaudhry, M.N., Ahmad, S.R. and Rahman, A.U. | 2018 | Molecular detection of mutations in isolates of Multidrug resistant Tuberculosis and tuberculosis Suspects by Multiplex Allele Specific PCR | Pakistan Journal of Pharmaceutical Science | 0.804. | 31(6): 2661-2666 |
| 3. | Bashir, S., Ahmad, I. and Ahmad, S.R. | 2018 | Low-Emission Modeling for Energy Demand in the Household Sector: A Study of Pakistan as a Developing Economy, | Sustainability | 2.075. | 10, 3971; doi:10.3390/su10113971 |
| 4. | Ashraf, A., Butt, A., Khalid, I., Alam, R.U., and Ahmad, S.R. | 2018 | Smog analysis and its effect on reported ocular surface diseases: A case study of 2016 smog event of Lahore | Atmospheric Environment | 3.708. | 198(1): 257-264 |
| 5. | Ashraf, U., Chaudhary, M.N., Ahmad, S.R. , Ashraf, I., Arslan, M. Noor, H. and Jabbar, M. | 2018 | Impact of climate Change on Copparis Spinosa L. Based on Ecological Niche Modeling | PEER J | 2.118. | doi:10.7717/peerj.5792 |
| 6. | Khan, M., Chaudhary, M.N. Ahmad, S.R. , Saif, S. and Mehmood, A. | 2018 | Challenges to EIA consultants whilst dealing with stakeholders in Punjab, Pakistan. | Environmental Impact Assessment Review | 3.054 | 73:201-209 |
| 7. | Tarar, Z.R., Ahmad, S.R. , Ahmad, I. and Majid, Z. | 2018 | Detection of Sediment Trends using Wavelet Transforms in the Upper Indus River. | WATER | 2.069 | 10(07): 918; doi:10.3390/w10070918 |
| 8. | Rasheed, R., Yasar, A., Ahmad, S.R. , Tabinda, A.B., Khan, S.A. and Su, Y | 2018 | Bioenergy recovery analysis from various waste substrates by employing a novel industrial scale AD plant. | Energy Sources, Part A: Recovery, Utilization, and Environmental Effects | 0.555 | doi.org/10.1080/15567036.2018.1489439. |
| 9. | Aslam, A.Q., Ahmad, I., Ahmad, S.R. , Hussain, Y, Hussain, M.S., Shamshad, J. and Zaid, S.J.A. | 2018 | Integrated Climate Change Risk Assessment and Evaluation of Adaptation Perspective in Southern Punjab, Pakistan. | Science of the Total Environment | 4.610 | 628-629: 1422-1436 |
| 10. | Zaheer, M.M., Yasin, N.A., Ahmad, S.R. , Khan W.U., Ahmad, A., Ali, A. and Rehman S.U | 2018 | Amelioration of Cadmium Stress in Gladiolus (Gladiolus Grandiflora L.) by application of potassium and Silicon. | Journal of Plant Nutrition | 0.565 | 41(04): 461-476 |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|--|------|---|--|---------------|---------------------|
| 11. | N., Mehmood, S., Nisar, H., Jamil, S., Ahmad, Z., Ghani, N., Oladipo, A., Qadri, R.W., Latif, A.A., Ahmad, S.R. , Iqbal, M. and Abbas, M. | 2018 | Brassicaceae Family Oil Methyl Esters Blended with Ultra-Low Sulphur Diesel Fuel (ULSD): Comparison of Fuel Properties with Fuel Standards. | Renewable Energy | 4.900 | 117: 393-403 |
| 12. | Baqar, M., Sadeef, Y. , Ahmad, S.R. , Mahmood, A., Li, J. and Zhang, G. | 2018 | Organochlorine contaminants in freshwater mussels; occurrence, bioaccumulation pattern, Spatio-temporal distribution and human health risk assessment from the tributaries of River Ravi, Pakistan. | Human and Ecological Risk Assessment: An International Journal | 1.508 | 24(5): 1268-1290 |
| 13. | Yasin, N.A., Khan, W.U., Ahmad, S.R. , Ali, A., Ahmad, A. and Akram, W. | 2018 | Imperative roles of Halotolerant Plant Growth Promoting Rhizobacteria and Kinetin in Improving Salt Tolerance and Growth of Black Gram (Phaseolus mungo). | Environmental Science and Pollution Research | 2.800 | 25(5): 4491-4505 |
| 14. | Shaheen, T., Rehman, S.U., Javed, M.A. and Ahmad, S.R. | 2018 | GIS Based Investigation of Food Chain Vulnerability to Radiation Exposure in Pakistan-A Review | Transylvanian Review | 0.045 | XXVI(24): 6299-6307 |
| 15. | Khan, W.U., Yasin, N.A., Ahmad, S.R. , Ali, A., Ahmad, A., Akram, W. and Faisal, M. | 2018 | Role of Burkholderia Cepacia CS8 in Cd-Stress Alleviation and Phytoremediation by Catharanthus roseus, | International Journal of Phytoremediation | 1.886 | 20(06): 581-592 |
| 16. | Sabir, A.A., Bareen, F.E. and Ahmad, S.R. | 2018 | In Vitro response of Bougainvillea explants and their antioxidant enzymatic activities treated with new naphthyl acetic acid based synthetic plant growth promoters, | Polish Journal of Environmental Studies | 1.120 | 27 (4): 1707-1716 |
| 17. | Maryam, B., Qadir, A. , Zameer, M., Ahmad, S.R. , Nelofer, R., Jamil, N. , Arzoo, S. and Afzaal, R. | 2018 | Production of Cellulases by Bacillus Cellulosilyticus using Lignocellulosic Material | Polish Journal of Environmental Studies | 1.120 | 27(6): 2659-2667 |
| 18. | Naqvi, A; Qadir, A. , Mahmood, A; Baqar, M, Aslam, I.; Sajid, F, Mumtaz, M.; Li, J. and Zhang, G. | 2018 | Quantification of polychlorinated biphenyl contamination using human placenta as biomarker from Punjab Province, Pakistan. | Environmental Science and Pollution Research | 2.80 | 25(15): 14551-14562 |
| 19. | Kanwal, Q., Qadir, A Amina, Asmatullah, Iqbal, H H. and Munir, B | 2018 | Healing potential of <i>Adiantum capillus-veneris</i> L. plant extract on bisphenol A-induced hepatic toxicity in male albino rats | Environmental Science and Pollution Research | 2.80 | 25(12): 11884-11892 |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|--|------|--|---|---------------|-------------------|
| 20. | Malik, G. Qadir A. ; and Khan, H. A. A. | 2018 | Effect of Temperature on the Toxicity of Biorational Insecticides against <i>Sitophilus oryzae</i> (Linnaeus) in Stored Wheat. | Pakistan Journal of Zoology | 0.547 | 50: 1569-1572 |
| 21. | Majeed, S.; Ahmad, S.R., Qadir, A. , Mackay, C. and Hayat F. | 2018 | Spatial patterns of pollutants in water of metropolitan drain in Lahore, Pakistan, using multivariate statistical techniques. | Environmental Monitoring and Assessment | 1.804 | 190(3): 128- |
| 22. | Riaz, G. Tabinda, A. B. Baqar, M., Mahmood, A; Mumtaz, M., Qadir, A. Yasar, A., Khorram M. S. | 2018 | <u>Human Health Risk Surveillance through the Determination of Organochlorine Pesticides by High-Performance Liquid Chromatography in Water, Sediments, and Fish from the Chenab, Pakistan</u> | Analytical Letters | 1.206 | 51 (8): 1245-1263 |
| 23. | Firdouse, N., Shaikh, I.A. , Islam, S. and Sadef, Y. | 2018 | Performance Evaluation of Selected Coagulants for the Removal and Reuse of Textile Wastewater Containing C.I. Reactive Black 5. | AATCC Journal of Research | 0.23 | 5(5) 9-14 |
| 24. | Asi, M.R., Hassan, S.W.U., Sadef. Y. , Hussain, S., Akhtar, M., Akhtar, N. and Ashraf, Y. | 2018 | Proximate chemical composition and tocopherol levels in maize genotypes grown in Punjab, Pakistan. | Pakistan Journal of Agricultural Sciences | 0.690 | 56 (X) |
| 25. | Firdouse, N., Shaikh, I.A. and Shahid, R. | 2018 | Decolorization of Reactive Azo Dye Remazol Black-B by using Advanced Oxidation Processes (AOPs) | Journal of the Chemical Society of Pakistan | 0.280 | 40(05): 828-833 |
| 26. | Bukhari, K., Ahmad, N., Sheikh, I.A. and Akram, T.M. | 2018 | Effect of Different parameters on Photocatalytic Oxidation of Slaughterhouse wastewater by using TiO ₂ and Silver Doped TiO ₂ nanoparticles. | Polish Journal of Environmental Studies | 1.120 | 28(3): 1-10 |
| 27. | Akram, T.M. Ahmad, N. and Shaikh, I.A. | 2018 | Characterization and optimization of Photocatalytic Activity of Sol Gel Synthesized TiO ₂ and Ag doped TiO ₂ through degradation of Synthetic Textile Effluent by UV Lamp assisted experimental setup. | Polish Journal of Environmental Studies | 1.120 | Accepted |
| 28. | Islam, S., Shaikh, I.A. , Firdous, N., Ali, A. and Sadaf, Y. | 2018 | A new approach for the removal of unfixed dyes for reactive dyed cotton by Fenton Oxidation. | Journal of Water Reuse and Desalination | 0.688 | Accepted |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|---|------|--|--|---------------------|-----------------|
| 29. | Ahmad, Z., Abbasi, M.H., Sheikh, N. and Ahmad, S.R. | 2018 | First attempt of molecular identification of bats from Punjab-Pakistan | Biological Regulators & Homeostatic Agents | 1.397 | Accepted |
| 30. | Ilyas, H., Ilyas, S., Ahmad, S.R. , Chaudhry, M.N. | 2018 | Simulation Analysis of Waste Recycling by Waste Pickers in Gujranwala City, Pakistan, | Interiencia | 0.221 | Accepted |
| 31. | Nadeem, F., Jamil, N. , Moazzam, A., Ahmad, S.R. , Lateef, A., Khalid, A., Qadir, A. , Ali, A. and Munir, S. | 2018 | Synthesis and Characterization of Sawdust Biochar / Fe ₃ O ₄ Nanocomposites: Potential Application in Textile Wastewater Treatment | Polish Journal of Environmental Studies | 1.120 | Accepted |
| 32. | Sadeef, Y. , Poulsen, T.G., Iqbal, J., Noureen, M. Afzal, I. and Shaikh, I.A. | 2018 | Development of a High Efficiency Rice Husk Based Adsorbent for Removal of Dyes from Wastewater. Application to Everzol Black GR and Reactive Orange 113. | Journal of Desalination and Water Treatment | 1.631 | Accepted |
| 33. | Ashraf, M.Y., Tariq, S., Saleem, M., Hassan, S.W.U and Sadeef, Y. | 2018 | Calcium and Zinc Mediated Physico-Chemical Changes in Mungbean Grown under Saline conditions | Pakistan Journal of Botany | 0.750 | Accepted |
| 34. | Ali, A., Shaikh, I.A. , Abid, T., Sameena, F., Islam, S., Khalid, A., Firdause, N. and Javed, T. | 2018 | Reuse of Textile Wastewater after Treating with Combined Process of Chemical Coagulation and Electro-Coagulation | Polish Journal of Environmental Studies | 1.120 | Accepted |
| 35. | Usman, K., Ijaz, S., Firdouse, N., Gull, S., Nisa. Z.U. Ahmad, S.R. , Sheikh, I. Rehman, H.U., Pervaiz, K. and Malik. I.U. | 2018 | Detection of heavy metals in River Harrow at Kharala Khyber Pakhtunkhwa, Pakistan | Journal of Biodiversity and Environmental Science | -- | 13(1): 175-179 |
| 36. | Usman, K., Nisa, Z.U., Ijaz, S., Gull, S., Ahmad, S.R., Rehman, H.U., Pervaiz, K., Malik, I.U., Ullah, W. and Akhtar, M.N. | 2018 | Assessment of heavy metals in River Kunhar at Naran Khyber Pakhtunkhwa, Pakistan,. | Journal of Biodiversity and Environmental Sciences (JBES) | X-Cat (Master List) | 13(1): 249-255 |
| 37. | Imran, M., Basit, I., Khan, M.R. and Ahmad, S.R. | 2018 | Analyzing the Impact of Spatio-Temporal Climate Variations on the Rice Crop Calendar in Pakistan, , | <i>International Journal of Biological, Life and Agricultural Sciences</i> | Equiv. to HEC Y-Cat | 12(06): 177-184 |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|---|------|---|---|---------------|----------------|
| 38. | F. Imtiaz, Z. Nisa, S.R Ahmed , S. Ijaz and M. Tabasum | 2018 | Physicochemical Assessment of Soil and Drinking Water Quality: A case study of Urban Area of Green Town, Lahore. | <i>Pakistan Journal of Science</i> | HEC-Y-Cat. | 70(1): 40-47 |
| 39. | S.R. Ahmad , Z. Abbas, N. Arif, F. Mazhar, Z. Majid, Z. Haq and R.M.A. Washakh | 2018 | Spatio-Temporal Monitoring of Stratospheric Ozone for Big Cities in Pakistan and its effects on human and Climate. | <i>Pakistan Journal of Science</i> | HEC-Y-Cat | 70(1): 8-15 |
| 40. | Akhtar, S., Shahraz, S.A., Ramzan, H.S., Ahmad, S.R. , and Asghar, S. | 2018 | Distribution of heavy metals in different land-uses in Sadiqabad, Pakistan. | Journal of Biodiversity and Environmental Sciences (JBES) | HEC-Y-Cat | 12(5): 16-24. |
| 41. | R. Jamal, S.R., Ahmad and K. Khan | 2018 | Geographical Information System Based Watershed Delineation in Southern Haripur Tehsil Khyber Pakhtunkhwa Province, Pakistan. | <i>Pakistan Journal of Science,</i> | HEC-Y-Cat. | 70(1):. 97-108 |
| 42. | Ahmad, S.R. , and Khan, S. | 2018 | Multi Criterion Geospatial Analysis for Site Suitability of Solar Energy Power Plants Installation in Lahore Division | Presented at the International Conference & Exhibition on Clean Energy (ICCE 2018) from August 6-8, 2018 at Laval University, Canada. | | |



| Sr. No. | Authors | Year | Title of Paper | Name of Publishing Journal | Impact Factor | Vol. / No. |
|---------|------------------------------|------|--|---|---------------|------------|
| 43. | Ahmad, S.R. and Khalid, A.P. | 2018 | Spatial Variation in the Ground Water Quality of Tehsil Pattoki, District Kasur, | in the Symposium on Water Contamination Issues and Treatment Techniques held from February 11-12, 2018 at the Abdus Salam Research Forum, Nusrat Jahan College Rabwah, District Chiniot-Pakistan. | | |

○ **Conferences, Seminars and Workshops, etc.**

| Author's | Date | Title of Paper Presented | Conference / Venue |
|------------------------------|------|---|---|
| Ahmad, S.R., and Khan, S. | 2018 | Multi Criterion Geospatial Analysis for Site Suitability of Solar Energy Power Plants Installation in Lahore Division | Oral presentation at the International Conference & Exhibition on Clean Energy (ICCE 2018) from August 6-8, 2018 at Laval University, Canada. |
| Ahmad, S.R. and Khalid, A.P. | 2018 | Spatial Variation in the Ground Water Quality of Tehsil Pattoki, District Kasur, | Oral Presentation in the Symposium on Water Contamination Issues and Treatment Techniques held from February 11-12, 2018 at the Abdus Salam Research Forum, Nusrat Jahan College Rabwah, District Chiniot-Pakistan. |

○ **Seminars / Workshops Organized**

College of Earth and Environmental Sciences, Organized various Seminar / Workshops / Conferences during the academic session 2017-2018 as detailed below:



- Organized a Motivational Seminar and Mr. Raza Hussain Baig (Invited Speaker) deliver a lecturer held on November 16, 2018 at the CEES.
 - Organized Examination Stress Seminar Mr. Muhammad Ali (Invited Speaker) deliver a lecture on November 30, 2017.
 - Organized a Seminar on Anti-Littering in collaboration with Albayrak Co. on Febry 8, 2018.
 - Observed Pakistan Resolution Day on March 27, 2018.
 - Observed World Earth Day on April 24, 2018.
 - Organized Seminar regarding Pakistan Independence Day on August 10, 2018.
 - Launched a Fruit Tree Plantation Campaign at the University on September 19, 2018.
 - Organized a Special Lecture “Case Study – Demarcation of Negative and Positive Area for Cement Sector in the Salt Range”, held on November 21, 2017.
- **Research Journals**
- College of Earth and Environmental Sciences has launched its Journal “*Pakistan Journal of Earth and Environmental Sciences*” (ISSN 2519-9897) which will be published in near future.

RESEARCH COLLABORATION

- **Indigenous**
- Swedish University of Agricultural Sciences UPPSALA, Sweden
 - University of Windsor, Ontario, Canada
 - American Rainwater Catchment System (Pakistan Chapter)
 - M/s Wisey’s Germany
 - PCRET, Pakistan
 - Pakistan Meteorological Department
 - Ministry of Climate Change
 - WAPDA
 - PCRWR
 - Soil Survey of Pakistan
 - Indus Consortium
 - WWF (Pakistan)
 - Bulleh Shah Packages
 - Waste Busters
 - The Urban Unit
- **Linkages**
- The College of Earth and Environmental Sciences has initiated linkages with various international and academic institutions as detailed below:
- Soil Microbiology Division, University of Cornell, New York, Ithaca, USA.
 - Renewable Energy System (Bioinformatics) Uppsala, Sweden.
 - University of Windsor, Ontario, Canada



○ **Funding Grants for R&D**

College of Earth and Environmental Sciences has submitted Research Proposals under NRPUR and Thematic Research Grants to the Higher Education Commission (HEC) of Pakistan for award of research grants during the academic session 2017-18.

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

○ **An Overview**

Research and Development is the integral part of the curricula of all our academic programs. A large number of students of all academic programs opt the research & report writing (as a paper titled 'Thesis') during the last semester. However, internships are also done by the students. Research and report writing for M.Phil and PhD scholars is mandatory. Software relating to Research and development are available as well as hardware.

○ **Projects**

| Sr. No. | Name of Faculty Member | Titled of Project | Funded By | Year |
|---------|------------------------|---|---------------------------|------|
| 1. | Ms Farida Rafique | Prevalence of Hepatitis C Virus (HIV) in HIV infected patients attending Public Hospitals, Lahore | Punjab University, Lahore | 2017 |
| 2. | Prof. Dr. Shahid Kamal | Self-Medication among University Students in Punjab, Pakistan | Punjab University, Lahore | 2017 |

○ **Publications**

- Naseer Ahmad, Shahid Kamal, Zulfiqar Ali Raza, Tanveer Hussain (2017). Multi-objective optimization in the development of oil and water repellent cellulose fabric based on response surface methodology and the desirability function. Materials Research Express. Vol.4: No.3. (Impact factor 0.968)
- Rehan Ahmad Khan Sherwani (2017). Awareness about Swine Flu/H1N1 Influenza Virus among Educated Community of Lahore: - City of Pakistan. Pakistan Journal of Medical Association. Vol. 67, No.10, pp 1596-1599. (Impact factor 0.616)
- Rameeza, Rehan Ahmad Khan Sherwani (2017). Optimal Breastfeeding Practices: Mothers' Knowledge and Practices. The Professional Medical Journal. Vol. 24, No.9, pp 1387-1391. (X Category)
- Muhammad Jamshaid, Rehan Ahmad Khan Sherwani (2017). Contraceptive Method Choices among Women in Punjab, Pakistan. Medical Channel. Vol.23, No.3, pp 75-80. (Y Category)
- Rehan Ahmad Khan Sherwani, Shahid Kamal, Shumaila Abbas (2017). Health Outcomes in Low, Medium, High and Very High Human Developed Countries: A Cross Comparison with the Pakistan. Pakistan Journal of Medical Research. Vol. 56, No. 3. (Y Category)



- Hafiz Muhammad Nawaz, Rehan Ahmad Khan Sherwani (2017). Application of Panel Co-integration Approach to Verify Ricardian Equivalence Hypothesis in G8 and SAARC Countries. *Journal of Statistics*. Vol. 24, pp 92-107. (Y Category)
- Muhammad Bilal, Rehan Ahmad Khan Sherwani (2017). Multilevel Growth Modeling Using R: A Case of GDP Influencing Factors. *Journal of Statistics*. Vol. 24, 63-81. (Y Category)
- Rehan Ahmad Khan Sherwani, Shahid Kamal, Shumaila Abbas (2017). Correlates of Human Development Index in Low, Medium, High and Very High Human Developed Nations. *Pakistan Economic and Social Review*. Vol. 55, No.1, pp 31-52. (X Category)
- Saira Esar, Shahid Kamal, Rehan Ahmad Khan Sherwani (2017). Comparison of fractional splines with polynomial splines; An Application on under-five year's child mortality data in Pakistan (1960-2012). *Pakistan Journal of Statistics & Operation Research*. Vol.13, No.2, pp 439-448. (Y Category)
- Rehan Ahmad Khan Sherwani, Muhammad Ali Raza, Sajjad Haider Bhatti, Muhammad Aftab, Tanvir Ahmad, Malik Shahid Shaukat (2017). Epidemiological Analysis of Infant Mortality in Rural Punjab of Pakistan. *Medical Forum Monthly*. Vol. 28, No.6, pp 35-39. (Y Category)
- Muhammad Irfan, Rehan Ahmad Khan Sherwani (2017). Ordinal and Multilevel Ordinal Logistic Regression Models. *Pakistan Journal of Statistics & Operation Research*. Vol. 13, No. 1, pp 211-226. (Y Category)
- Maqsood Ahmad, Sohail Chand, H. M. Rafique (2017). Geostatistical Cokriging and Multivariate Statistical Methods to Evaluate Groundwater Salinization in Faisalabad – Pakistan. *Desalination and Water Treatment*, Vol. 84, pp 93-101. (Impact factor 1.631)
- Muhammad Ahsan ul Haq, Irum Sajjad Dar, Muhammad Aslam, Qaisar Khalid Mahmood (2017). Psychometric Study of Depression, Anxiety and Stress among University Students. *Journal of Public Health*, 2017. (online available) (Y Category)
- Arif, S., & Ilyas, M. (2017). Using structural equation modeling to construct student satisfaction models for private universities of Pakistan, *Journal of Quality and Technology Management*, 14(2), 39-37.
- Sohail Chand, Sarah Ahmad and Madeeha Batool (2018). Solution path efficiency and oracle variable selection by lasso-type methods. *Chemometrics and Intelligent laboratory Systems*. 183. (Impact factor 2.701)
- Sohail Chand and Nuzhat Aftab (2018). A new modified leverage adjusted heteroskedastic consistent covariance matrix estimator in linear regression. *Kuwait Journal of Science*. 45. (Impact factor 0.811)
- Sohail Chand and Nuzhat Aftab (2018). Modified variance ratio test of autocorrelation in the presence of heteroskedasticity. *Lahore Journal of Economics*. 23. (X Category)
- Samyyia Abrar, Shahida Hussain, Rehan Ahmad Khan, Noor ul Ain, Hayat Haider and Saba Riaz (2018). Prevalence of extended-spectrum- β -lactamase-producing Enterobacteriaceae: first systematic meta-analysis report from Pakistan. *Antimicrobial Resistance and Infection Control*. 7 : 26. (Impact factor 3.568)



○ **Conferences, Seminars and Workshops, etc.**

Various workshops were arranged for the students of M.Sc. Actuarial Sciences, M.Sc. Statistics, MBSM and MIOM during the year 2017-2018. College conducts many awareness seminars on regular basis such as:

- Detect to Defeat: Awareness of Breast Cancer and Breast Self Examination (October 22, 2017) in collaboration of Pink Ribbon Organization;
- Traffic awareness and road safety measures (November 22, 2017) in collaboration with Lahore Traffic Police;
- Thalassemia Awareness and Prevention (April 19, 2018) in collaboration with Kashif Iqbal Thalassemia Care Centre.

○ **Research Journals**

Regularly publishing a quarterly research journal 'Pakistan Journal of Statistics and Operation Research' since 2005.

RESEARCH COLLABORATION

○ **Indigenous**

State Bank of Pakistan, Higher Education Commission (HEC)

DEPARTMENT OF GEOGRAPHY

○ **R&D-An Overview**

Department of Geography was formerly established at the University of the Punjab in October 1944, at its Old campus. Later it was shifted to its new campus i.e. Quaid-e-Azam Campus in 1965. At the time of independence Geography Department was offering graduate work at Master level. The department is now offering new programs like BS, M.Phil/MS Geography and PhD.

- Seminar Library is available online.
- Laptops are provided to faculty members by the department.
- Pakistan Geographical Review (PGR), A research Journal of the department is available online.

○ **Publications**

The following research papers were published by the faculty

Research Papers/Articles Published

| Sr. No. | Name of Author | Title of Paper/Article |
|---------|------------------------------|---|
| 1 | Prof. Dr. Safdar Ali Shirazi | Khalil M, Mazhar N, Shirazi S.A, Javid K. (2018) " <i>Impact analysis of vegetation cover on land surface temperature (LST) at Lakhodair landfill and Mehmood Booti open dump site of Lahore, Pakistan</i> " Int. J. Biosci. 13(5), 263-277, 2018 http://www.innspub.net |



| | | |
|---|------------------------------|--|
| 2 | Prof. Dr. Safdar Ali Shirazi | Shazia P, Shirazi S.A, Khan, F. Z , Javid K, Mughal T.A “ <i>Tree census of urban green space with special reference to Gora Cemetery of Lahore, Pakistan</i> ”. Int. J. Biosci. 13(1), 431-439, July 2018. https://innspub.net/ijb/tree-census-urban-green-space-special-reference-gora-cemetery-lahore-pakistan/ |
| 3 | Prof. Dr. Safdar Ali Shirazi | Mazhar N, Shirazi S.A, Javid K. (2018) “ <i>Desertification vulnerability and risk analysis of Southern Punjab Region, Pakistan using geospatial techniques</i> ”. Journal of Biodiversity and Environmental Sciences 12(6), 273-282, June 2018. http://www.innspub.net/jbes/desertification-vulnerability-risk-analysis-southern-punjab-region-pakistan-using-geospatial-techniques/ |
| 4 | Dr Isma Younas | Anum Liaqut, Isma Younes, Rakhshanda Sadaf (2017), Spatial Distribution of Noise Released from Iron and Steel Industry and their Effects on Human Health in the Lahore City, Pakistan, Journal of Basic and Applied Sciences, Vol.13. |
| 5 | Dr Isma Younas | Navid. M, Sadaf. R, Younes. I, Saeed. K, Jawad, S.M, Rehman. H, Akhtar. N, Abdurrahman & Khan, M.I. (2017) River Etai fishes Morphometric characteristic and physiochemical analysis of water with respect to fish survive in district Shangla, KP, Pakistan, Journal of Entomology and zoology studies, 5(6), 1062-1067 |
| 6 | Dr. Saima Siddiqui | Siddiqui, R., Siddiqui, S., Javid, K. (September 2018) - <i>Calculation and Mapping of Rainwater Harvesting Potential Through GIS To Conserve Water From The Roads Runoff of Lahore, Pakistan</i> _ Journal of Biodiversity and Environmental Sciences – Vol. 13 (3), 89-97. (HEC Recognized- ISI indexed- X Category). |
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| 8 | Dr. Saima Siddiqui | Siddiqui, S. Javid K. (September 2018) - <i>Spatio-temporal Analysis of Aridity over Punjab Province of Pakistan Using Remote Sensing Techniques</i> – International Journal of Economic and Environmental Geology - Vol. 9 (2), 1-10. (HEC Recognized in Y Category). |



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| 9 | Dr. Saima Siddiqui | Siddiqui, R. Siddiqui, S. (September 2018) - <i>Assessing the Rooftop Rainwater Harvesting Potential in an Urban Residential Area of Lahore Pakistan</i> – International Journal of Economic and Environmental Geology - Vol. 9 (2), 11-19. (HEC Recognized in Y Category). |
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○ **Research Journals:**

The prestigious Pakistan Geographical Review is being published since 1942 and is available online.

RESEARCH COLLABORATION

○ **Indigenous**

Thesis and Research Reports are regularly carried out by the students of this department and are available in Seminar Library. The faculty of this department is supervising research thesis/reports not only of their own students but also various other post-graduate departments of the Punjab.

DEPARTMENT OF MATHEMATICS

R&D - An Overview

Department of Mathematics organized a series of departmental seminars

Prof. Dr. Muhammad Sharif, Prof. Dr. Malik Zawwar Hussain, Prof. Dr. Muhammad Akram, Dr. Muhammad Riaz, Dr. Nauman Raza, Dr. Saima Arshed, Dr. Muhammad Zaeem ul Haq Bhatti, Dr. Zeeshan Yousaf and Dr. Maasoomah Sadaf presented papers in different National and International conferences. During the above mentioned period, the detail of enrolled students is 35 in Ph.D., 77 Students in M.Phil. 139 students in M.Sc. (Morning), 70 students in M.Sc. (Self-Supporting), 122 students in BS Mathematics (4 Years Program).

08 Ph.D. Students, 36 M.Phil., Students, 96 M.Sc. students and 26 BS Students completed their degrees during the said period. M.Phil. / Ph.D. students are doing research in different fields under the supervision of Prof. Dr. Muhammad Sharif, Prof. Dr. Malik Zawwar Hussain, Prof. Dr. Muhammad Akram, Dr. Muhammad Aslam Malik, Dr. Ghazala Akram, Dr. Daud Ahmed, Dr. Muhammad Riaz, Dr. Muhammad Khalid Mehmood, Dr. Nauman Raza, Dr. Aziz Ullah Awan, Dr. Uzma Ahmed, Dr. Saima Arshed, Dr. Muhammad Zaeem ul Haq Bhatti and Dr. Zeeshan Yousaf.

The faculty members, M.Phil. and PhD scholars are delivered the lectures, departmental seminar series, which is held on every Wednesday.

Departmental Library has been enriched by adding 47 books relevant to Mathematics and as well as Department has published the magazine "The Infinity 2017"



○ **Research Projects**

| Sr. No. | Name of Faculty Members | Sponsor | Completed / In Process |
|---------|----------------------------------|---|------------------------|
| 01 | Prof. Dr. Muhammad Sharif | University of the Punjab, New Campus Lahore | Completed |
| 02 | Prof. Dr. Muhammad Akram | University of the Punjab, New Campus Lahore | In Process |
| 03 | Dr. Muhammad Riaz | University of the Punjab, New Campus Lahore | In Process |
| 04 | Dr. Muhammad Khalid Mehmood | University of the Punjab, New Campus Lahore | In Process |
| 05 | Dr. Nauman Raza | University of the Punjab, New Campus Lahore | In Process |
| 06 | Dr. Uzma Ahmad | University of the Punjab, New Campus Lahore | In Process |
| 07 | Dr. Muhammad Zaeem ul Haq Bhatti | University of the Punjab, New Campus Lahore | In Process |
| 08 | Dr. Zeeshan Yousaf | University of the Punjab, New Campus Lahore | In Process |
| 09 | Dr. Zahid Hussain Shamsi | University of the Punjab, New Campus Lahore | In Process |

○ **Publications**

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- Prof. Dr. Muhammad Sharif and Saadia Mumtaz, “*Stability Analysis of Bulk Viscous Anisotropic Universe Model*” Astrophys. Space Sci, 362, 2017.
- Prof. Dr. Muhammad Sharif and Saadia Mumtaz, “*Stability Analysis of an Oscillating Cylinder*”, Eur. Phys. J. Plus, 132, 2017.
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- Prof. Dr. Muhammad Sharif and Ayesha Ikram, “*Anisotropic Perturbations and Stability of Static Universe in $f(\text{mathcal{G}})$ Gravity*”, Eur. Phys. J. Plus, 132, 2017.
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- Dr. Ghazala Akram and Fareeha Anjum, *"Existence and Uniqueness of Solution for Differential Equation of Fractional Order $2 < \alpha < 3$ with Nonlocal Multi-Point Integral Boundary Conditions"*, Turkish Journal of Mathematics, 42, 2018.
- Dr. Daud Ahmad and Saba Naeem, *"Quasi-Harmonic Constraints for Toric Bezier Surfaces"*, Journal of Engineering and Natural Sciences, 36 (2), 2018.
- Dr. Daud Ahmad and Kashif Habib, *"Homotheties of a Class of Spherically Symmetric Space-Times Admitting G^3 as Maximal Isometry Group"*, Advances in Mathematical Physics, 2018.
- Dr. Muhammad Riaz and Zain Fatima, *"Certain properties of soft metric spaces"*, Journal of Fuzzy Mathematics, 25(3), 2017.



- Dr. Muhammad Riaz and Masooma Raza Hashmi, *"Fuzzy Parameterized Fuzzy Soft Compact Spaces with Decision-Making"*, Punjab University Journal of Mathematics, 50 (2), 2018.
- Dr. Muhammad Riaz and Masooma Raza Hashmi, *"Fixed Points of Fuzzy Neutrosophic Soft Mapping with decision-making"*, Fixed point theory and applications 7, 2018.
- Dr. Muhammad Riaz and Masooma Raza Hashmi, *"Fuzzy Parameterized Fuzzy Soft Metric spaces"*, Journal of Mathematical Analysis, 9 (2), 2018.
- Dr. Muhammad Khalid Mahmood and Farooq Ahmad, *"An Informal Enumeration of Squares of $2\mathbb{N}$ using Rooted Trees Arising from Congruence"*, Utilitas Mathematica, 105, 2017
- Dr. Muhammad Khalid Mahmood, Asma Ehsan, Yaser Daanial Khan, Sher Afzal Khan and Kuo-Chen Chou, *"A Novel Modeling in Mathematical Biology for Classification of Signal Peptide"*, Scientific Reports Nature, 2018.
- Dr. Muhammad Khalid Mahmood and Salman Mahmood and Y.D Khan, *"A treatise to vision enhancement and color fusion techniques in night vision devices"*, Multimedia Tools and Applications, 77(2), 2018.
- Dr. Muhammad Khalid Mahmood, Somia Saeed and M. Y.D Khan, *"An exposition of facial expression recognition techniques"*, Neural Computing and Applications, 29, 2018
- Dr. Nauman Raza, Ehsan Ul Haque , M. M. Rashidi, Aziz Ullah Awan and M. Abdullah, *"Oscillating Motion of an Oldroyd-B Fluid with Fractional Derivatives in a Circular Cylinder"*, Journal of Applied Fluid Mechanics, 10(5), 2017.
- Dr. Nauman Raza, Iqra Shahid, M. Abdullah, *"Hybrid Technique For the Solution of Unsteady Maxwell Fluid with Fractional Derivatives Due to Tangential Shear Stress"*, Fluid Dynamics, 41(06), 2017.
- Dr. Nauman Raza, A. R. Butt, M. Abdullah and M. Imran, *"Influence of non-integer order parameter and Hartmann number on the heat and mass transfer flow of a Jeffery fluid over an oscillating vertical plate via Caputo-Fabrizio time fractional derivatives"*, Eur. Phys. J. Plus, 132, 2017.
- Dr. Nauman Raza, E. U. Haque, M. Rashidi, A.U. Awan, M. Abdullah and Maqbool Ahmad Ch., *"A New Hybrid Technique for the Solution of a Maxwell Fluid with Fractional Derivatives in a Circular Pipe"*, Journal of Applied Environmental and Biological Sciences, 07(10), 2017.
- Dr. Nauman Raza, M. Riaz and M. Abdullah, *Taylor couette flow of a differential type fluid with non-integer time fractional derivatives:Semi Analytical solutions*, Journal of Nanofluids, 7(5), 2018.
- Dr. Nauman Raza and A. Zubair., *"Bright, dark and dark-singular soliton solutions to the nonlinear Schrodinger's equation with spation-temporal dispersion"*, Journal of Modern Optics. 65, 2018.
- Dr. Nauman Raza, *"Exact periodic and explicit solutions of the conformable time fractional Ginzburg Landau equation"*, Optical Quantum Electron 50, 2018.



- Dr. Nauman Raza and A. Javid, *"Optical dark and singular solitons to the Biswas–Milovic equation in nonlinear optics with spatio-temporal dispersion"*, Optik. 158, 2018.
- Dr. Nauman Raza, I.G. Murtaza, S. Sial, M. Abdullah and A.R. Butt, *"New exact periodic elliptic wave solutions for extended quantum Zakharov-Kuznetsov equation"*, Optical Quantum Electronics. 50, 2018.
- Dr. Nauman Raza, A.R. Butt, M. Abdullah, A. Alshomrani and A.K. Alzahrani, *"Analysis of blood flow with nanoparticles induced by uniform magnetic field through a circular cylinder with fractional Caputo derivatives"*, Journal of Magnetism and Magnetic Materials. 446, 2018.
- Dr. Nauman Raza, S. Sial and M. Kaplan, *"Exact periodic and explicit solutions of higher dimensional equations with fractional temporal evolution"*, Optik. 156, 2018.
- Dr. Nauman Raza and M.R. Aslam and S. Sial, *"New optical solitons of Tzitzeica type evolution equations using extended trial approach"*, Optical Quantum Electronics, 50, 2018.
- Dr. Nauman Raza, M. Abdullah, A.R. Butt, A.U. Awan and E. Haque, *"Flow of a second grade fluid with fractional derivatives due to a quadratic time dependent shear stress"*, Alexandria Engineering Journal, 57, 2018.
- Dr. Nauman Raza, M. Abdullah and A.R. Butt, *"Analytical soliton solutions of Biswas–Milovic equation in Kerr and non-Kerr law media"*, Optik, 157, 2018.
- Dr. Nauman Raza, K.A. Khan and A.R. Butt, *"Effects of heat and mass transfer on unsteady boundary layer flow of a chemical reacting Casson fluid"*, Results in Physics 8, 2018.
- Dr. Aziz Ullah Awan, Arshad Riaz and Abdul Razaq, *"Magnetic field and permeability effects on Jeffrey Fluid in eccentric tubes having flexible porous boundaries"*, Journal of Mathematics, 22 (4), 2017.
- Dr. Aziz Ullah Awan, Muhammad Danial Hisham, Abdul Rauf and Dumitru Veiru, *"Analytical and semi-analytical solutions to flows of two immiscible Maxwell fluids between moving plates"*, Chinese Journal of Physics, 56, 2018.
- Dr. Aziz Ullah Awan, Takasar Hussain, Kazeem Oare Okosun and Muhammad Ozair, *"Qualitative analysis and sensitivity based optimal control of pine wilt disease"*, Advances in Difference Equations, 27, 2018.
- Dr. Aziz Ullah Awan, Anwar Ali, Madeeha Tahir, Rabia Safdar, Muhammad Imran and Maria Javaid, *"Magnetohydrodynamics oscillating rotating flows of Maxwell electrically conducting fluids in a porous plane"*, Punjab University Journal of Mathematics, 50(4), 2018.
- Dr. Uzma Ahmad and Saira Hameed, *"Bounds of HOMO-LUMO gap for certain nanotubes and nanotori"*, Journal of Informatics and Mathematical Sciences, 10 (3), 2018.
- Dr. Uzma Ahmad and Syed M. Husnine, *"The Power Digraphs of finite groups"*, Utilitas Math 106, 2018.
- Dr. Saima Arshed, *"Two reliable techniques for the soliton solutions of perturbed Gerdjikov–Ivanov equation"*, Optik International Journal for Light and Electron Optics, 164, 2018.



- Dr. Saima Arshed, *"Soliton solutions of fractional complex Ginzburg–Landau equation with Kerr law and non-Kerr law media"*, Optik, International Journal for Light and Electron Optics. 160, 2018.
- Dr. Saima Arshed and Misbah Sadia, *"(G'/G2)-Expansion method: new traveling wave solutions for some nonlinear fractional partial differential equations"*, Optical and Quantum Electronics. 50:123, 2018.
- Dr. Saima Arshed, Anjan Biswas, Qin Zhou, Seithuti P. Moshokoa and Milivoj Belic, *"Optical solitons with polarization-mode dispersion for coupled Fokas–Lenells equation with two forms of integration architecture"*, Optical and Quantum Electronics. 50: 304, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti, Prof. Dr. M. Sharif and Dr. Zeeshan Yousaf, *"Role of $f(G,T)$ Gravity on the Evolution of Relativistic Stars"*, Int. J. Mod. Phys D. 27, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti, *"Stability of Celestial Objects and Adiabatic Index"*, Eur. Phys. J. Plus 133, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti, Dr. Zeeshan Yousaf and M. Ilyas, *Evolution of Compact Stars and Dark Dynamical Variables*, Eur. Phys. J. C. 77, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti and Dr. Zeeshan Yousaf, *"Stability of Anisotropic Stellar Filaments"*, Ann. Phys. 387, 2018.
- Dr. Zeeshan Yousaf, Dr. Muhammad Zaeem ul Haq Bhatti and A. Rafaqat, *"Evolution of Inhomogeneous LTB Geometry with Tilted Congruence and Modified Gravity"*, Can. J. Phys. 95, 2018.
- Bhatti, *"Influence of (R) Models on the Existence of Anisotropic Self-Gravitating Systems"*, Eur. Phys. J.C. 691(77), 2018.
- Dr. Zeeshan Yousaf, M. Ilyas, Dr. Muhammad Zaeem ul Haq Bhatti and Dr. Bilal Masud, *"Existence of Relativistic Structures in $f(R,T)$ Gravity"*, Astrophys. Space Sci. 362 (237), 2018.
- Dr. Zeeshan Yousaf and Dr. Muhammad Zaeem ul Haq Bhatti, *"Existence of Compact Structures in $f(R,T)$ Gravity"*, Eur. Phys. J. C. 78, 2018.
- Dr. Zeeshan Yousaf and Dr. Muhammad Zaeem ul Haq Bhatti, *"Energy Conditions in Higher Derivative $f(R, \square R, T)$ Gravity"*, Int. J. Geom. Meth. Mod. Phys. 15, 2018
- Dr. Zeeshan Yousaf and Dr. Muhammad Zaeem ul Haq Bhatti, *"Some Anisotropic Planar Stellar Models"*, Int. J. Geom. Meth. Mod. Phys. 15, 2018.
- Dr. Zeeshan Yousaf and Dr. Muhammad Zaeem ul Haq Bhatti, *"Dynamical Instability of Spherical Anisotropic Sources in $f(R, T, R_{\nu\delta} T^{\nu\delta})$ Gravity"*, Eur. Phys. J. A. 54, 2018.
- Dr. Zeeshan Yousaf, *"Thermodynamics and Glassy Phase Transition of Some Regular Black Holes"*, Mod. Phys. Lett. A. 33, 2018.
- Dr. Zeeshan Yousaf, *"Structure Scalars of Dissipative Fluids with $f(G,T)$ Gravity"*, Astrophys. Space Sci. 363, 2018.
- Dr. Zahid Hussain Shamsi and Prof. Dai-Gyoung Kim, *"Enhanced residual noise estimation of low rank approximation for image denoising"*, ELSEVIER 293, 2018.



○ **Conferences, Seminars and Workshops, etc.**

- Prof. Dr. Muhammad Sharif delivered a talk *Gravitational Collapse in Modified Theory* (Fifth National Conference on Space Science and Technology, ISPA, University of Karachi, October 09, 2017).
- Prof. Dr. Muhammad Sharif delivered a talk *Black Holes: Some Interesting Outcomes* International Conference on Mathematics and Applications, CASPAM, Bahauddin Zakariya University, Multan, November 06, 2017.
- Prof. Dr. Muhammad Sharif delivered a talk *Gravitational Collapse in $f(R)$ Gravity* (29th International Texas Symposium on Relativistic Astrophysics, Cape Town, South Africa, December 06, 2017).
- Prof. Dr. Muhammad Sharif delivered a talk *Effects of $f(R)$ Models on the Polarization of Gravitational Waves* (Gravity@Malta2018, University of Malta, Malta, January 22, 2018).
- Prof. Dr. Muhammad Sharif attended a *Fifth National Conference on Space Science and Technology*, ISPA, University of Karachi, October 09-10, 2017.
- Prof. Dr. Muhammad Sharif attended a *International Conference on Mathematics and Applications*, CASPAM, Bahauddin Zakariya University, Multan, November 06-07, 2017.
- Prof. Dr. Muhammad Sharif attended a *29th International Texas Symposium on Relativistic Astrophysics*, Cape Town, South Africa, December 03-08, 2017.
- Prof. Dr. Muhammad Sharif attended a *Gravity@Malta2018, University of Malta*, Malta, January 22-25, 2018.
- Prof. Dr. Malik Zawwar Hussain delivered a talk *Approximation of circular arcs by C-Bézier curve: an alternate approach* in 21st International Conference on Information Visualization, Salern, Italy, July 10-13, 2018.
- Prof. Dr. Muhammad Akram delivered a talk *Certain Concept in Rough Fuzzy Graphs*, International Conference on Mathematics and Applications, CASPAM, Bahauddin Zakariya University, Multan, November 06-08, 2017.
- Dr. Muhammad Riaz delivered a talk *FPPS- Mappings with decision-making problems*, 2017 International Conference on mathematics and its applications (2017-ICMA-GCU) Nov. 13-15, 2017.
- Dr. Muhammad Riaz delivered a talk *Fuzzy Neutrosophic Soft Set Theory with Decision-Making*, 4th UMT International Conference on Pure and Applied Mathematics (3rd UICPAM-2017) March 31-April 02, 2018.
- Dr. Muhammad Riaz delivered a talk *Fuzzy Parameterized Fuzzy Soft Set Theory with Decision-Making*, National Conference on Physical Sciences at Govt. M.A.O. College Lahore on April 25, 2018
- Dr. Muhammad Riaz delivered talk *Fuzzy neutrosophic soft sets and bipolar neutrosophic soft sets with decision-making*, Recent Advances in Mathematical Methods, Models & Applications (RAMMMA) at Centre for Mathematics & Statistical Sciences, Lahore School of Economics 7-8 April, 2018.



- Dr. Muhammad Riaz delivered a talk *Hendeling Uncertainties via soft Multi-set theory*, 2017 International Conference on mathematics and its applications (2018-ICMA-GCU) Nov. 13-15, 2018
- Dr. Muhammad Riaz delivered a talk, *Soft Multi-Set Theory with Decision-Making*, International Workshop on Nonlinear Analysis and Applications (IWNAAP-UMT 2018) (November 16-18, 2018).
- Dr. Muhammad Riaz attended "2018 One Day Workshop on Nonlinear Analysis and its Applications" at GCU Lahore on July 17, 2018
- Dr. Muhammad Riaz attended 1st International Meeting on Science and Society, (23-25 November 2017), Organized by National Centre for Physics Islamabad and Centre of High Energy Physics, University of Punjab, Lahore
- Dr. Nauman Raza delivered a talk *Shape Optimization for a Simple Model of two Dimensional Heat Transfer*, International Workshop on Nonlinear Analysis and Applications Organized by University of Management and Technology, September 16-17, 2017.
- Dr. Nauman Raza delivered a talk *A New Algorithm for the Solutions of Singular Differential Equations Using Sobolev Gradients*, 4th UMT International Conference on Pure and Applied Mathematics, March 31-April 02, 2018.
- Dr. Aziz Ullah Awan delivered a talk *International Conference on Education*, University of Education, Lahore, (March 15-17, 2018).
- Dr. Aziz Ullah Awan delivered a talk "2017 International Conference on Mathematics and its Applications, Department of Mathematics, GC University Lahore", (November 13-15, 2017).
- Dr. Aziz Ullah Awan delivered a talk "3rd International Conference on Pure and Applied Mathematics, Department of Mathematics, University of Sargodha, Sargodha", (November 10-11, 2017).
- Dr. Aziz Ullah Awan attended a conference *World Quality Day by QEC*, University of the Punjab, Lahore (November 14, 2017).
- Dr. Uzma Ahmed delivered a talk *Classification of Power Graphs as Cacti on Finite Groups*, conference COMBINATORICS, Arco, Italy, June 03-09, 2018
- Dr. Uzma Ahmed delivered a talk *The Power Graphs of Finite Groups*, 4th UMT International Conference on Pure and Applied Mathematics (4th UICPAM-2018) March 31-02 April, 2018
- Dr. Uzma Ahmed delivered a talk *A Study of Algebraic Structures with the Help of Certain Graphs*, Seminar Series 2018, Department of Mathematics, University of the Punjab, Lahore. (January 17, 2018)
- Dr. Saima Arshed delivered a talk *Soliton Solutions of Fractional Complex Ginzburg-Landau Equation with Kerr Law and Power Law Nonlinearity*, 4th UMT International Conference on Pure and Applied Mathematics (4th UICPAM-2018) March 31-02 April, 2018.



- Dr. Muhammad Zaeem ul Haq Bhatti delivered a talk *Evolution of Celestial Objects in Modified Gravity*, International UMT Conference on Pure and Applied Sciences” at UMT, Lahore, Pakistan during October 05-07, 2017.
- Dr. Muhammad Zaeem ul Haq Bhatti delivered a talk *A Study Based on Dynamical Variables and Self-Gravitating Objects*, “6th International Conference on Education-Science Beyond Classroom” at University of Education, Lahore, Pakistan during March 15-17, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti delivered a talk *Structure Scalars and their Physical Implication on the Evolution of Celestial stars*, “4th International UMT Conference on Pure and Applied Mathematics (4th UICPAM)” at Faletti’s Hotel by Center for Mathematics and its Applications, UMT, Lahore during March 31-April 02, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti delivered a talk *Inhomogeneity Factors for a Regular Stellar Structures in Modified Gravity*, “XIIth Spontaneous Workshop on Cosmology « Hot Topics in Modern Cosmology »” at Institut d’Etude Scientifique de Cargèse (IESC) Corsica, Ménasina, 20130 Cargèse, France during May 14-19, 2018.
- Dr. Muhammad Zaeem ul Haq Bhatti attended a conference Jan., 2018 *One Day Workshop for the Editors of Journals of Multi-Disciplinary and Natural Sciences*, Quality Assurance Division, HEC at HEC, Islamabad.
- Dr. Muhammad Zaeem ul Haq Bhatti attended a conference *Information, Black Holes and Quantum Theory: Theoretical Physics at the Crossroads*, Abdus Salam School of Mathematical Sciences, GCU, Lahore.
- Dr. Muhammad Zaeem ul Haq Bhatti attended 4th International UMT Conference on Pure and Applied Mathematics (4th UICPAM) at Faletti’s Hotel by Center for Mathematics and its Applications, UMT, Lahore.
- Dr. Muhammad Zaeem ul Haq Bhatti attended XIIth Spontaneous Workshop on Cosmology « Hot Topics in Modern Cosmology » at Institut d’Etude Scientifique de Cargèse (IESC), Cargèse, France.
- Dr. Zeeshan Yousaf delivered a talk *Stellar Zoo, Past and Future*, 2nd UMT International Conference on Pure and Applied Sciences, UMT, Lahore–Pakistan; Oct. 05, 2017.
- Dr. Zeeshan Yousaf delivered a talk *Challenges: Our Understanding of the Universe*, 2017 International Conference on Mathematics and its Applications, Government College University Lahore–Pakistan; Nov. 14, 2017.
- Dr. Zeeshan Yousaf delivered a talk *Self-Gravitating Systems and their Stability Analysis at 6th International Conference on Education, Science Beyond Classroom*, University of Education, Lahore–Pakistan; March 16, 2018.
- Dr. Zeeshan Yousaf delivered a talk *Collapsing Relativistic Fluids and Hydrostatic Equilibrium*, 4th UMT International Conference on Pure and Applied Mathematics, UMT, Lahore–Pakistan; April. 02, 2018.
- Dr. Zeeshan Yousaf delivered a talk *Stability of Anisotropic Stellar Filaments, (plenary talk) at XIIth Spontaneous Workshop on Cosmology*, at Institut d’Etude Scientifique de Cargèse (IESC) Corsica, Cargèse, France; May 14, 2018.



- Dr. Zeeshan Yousaf attended a conference *2nd UMT International Conference on Pure and Applied Sciences*, University of Management and Technology, Lahore–Pakistan; Oct. 05–07, 2017
- Dr. Zeeshan Yousaf attended a conference *2017 International Conference on Mathematics and its Applications*, Government College University Lahore–Pakistan; Nov. 13–15, 2017
- Dr. Zeeshan Yousaf attended a conference *6th International Conference on Education, Science Beyond Classroom*, at University of Education, Lahore–Pakistan; March 15–17, 2018.
- Dr. Zeeshan Yousaf attended a conference *Information, Black Holes and Quantum Theory: Theoretical physics at the Crossroads*, ASSMS, Government College University, Lahore–Pakistan; March 26–30, 2018.
- Dr. Zeeshan Yousaf attended a conference *4th UMT International Conference on Pure and Applied Mathematics*, University of Management and Technology, Lahore–Pakistan; March 31– April 02, 2018
- Dr. Zeeshan Yousaf attended a conference *12th Spontaneous Workshop on Cosmology, at Institut d'Etude Scientifique de Cargèse (IESC) Corsica*, Cargèse, France ; May 14–19, 2018
- Dr. Maasoomah Sadaf delivered a talk *A modified Geometry Analysis Method for Analytical Approximate Solution of DGRLW Equation*, 4th UMT International Conference on Pure and Applied Mathematics (4th UICPAM-2018) March 31-02 April, 2018.
- Miss Saira Hameed delivered a talk *VDB Topological Indices and Eigenspectrum of Molecular Graph*, 4th UMT International Conference on Pure and Applied Mathematics (4th UICPAM-2018) March 31-02 April, 2018
- **Research Journals**
Punjab University Journal of Mathematics (PUJM, Category X) Journals have been exchanged in the different libraries worldwide.

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Department of Mathematics, University of the Punjab, Lahore-Pakistan and School of Mathematical Sciences, University of Sians, Malaysia has signed Memorandum of Understanding (MOU) for research collaboration.
 - School of Engineering, Manufacturing and Mechanical Engineering, University of Birmingham, UK.
- **Funding grants for R&D**
 - HEC granted scholarships for seven Ph.D. Scholars.
 - DPCC granted (three for Ph.D. student and three for M.Phil. student).

DEPARTMENT OF PHYSICS

R&D-An Overview

Research activities in the Department are going on in various areas including experimental and theoretical Physics in collaboration with other national institutions/ Organizations namely



PINSTECH, INMOL, Shaukat Khanum Hospital, SUPARCO, Govt. College University, CSSP, Department of Meteorology and PCSIR. The main fields of research in theoretical Physics are: Quantum Field Theory, Conformal Field Theory, Condensed Matter Physics, Plasma and Nonlinear Physics. On the other hand, the experiment research includes Material Science, Solid State Physics, Nuclear Physics, Nuclear Medicine, Physics of Semiconductor Devices, Atmospheric Physics, Environmental Pollution & Climatology, and Quantum Wires / Quantum Dots (Nanotechnology) and estimation chemical contamination of drinking water. Thirty two (32) research papers have been published in National and Internal Research Journals by the faculty members in the last academic year and many are submitted.

○ Publications

- Riaz, H. W. A., &ul Hassan, M (2018).; Multisoliton solutions of integrable discrete and semi-discrete principal chiral equations. , Communications in Nonlinear Science and Numerical Simulation, , 54, 416-427 (IF=3.181)
- Riaz, H. W. A., & Hassan, M. U. (2018); Darboux transformation for a semidiscrete short-pulse equation. , Teoreticheskaya i Matematicheskaya Fizika, , 194(3) , 418-435., (IF=0.851)
- Riaz, H. W. A., &ul Hassan, M.(2018) ;; Multi-component semi-discrete coupled dispersionless integrable system, its lax pair and Darboux transformation., Communications in Nonlinear Science and Numerical Simulation, , 61, 71-83., 2018 (IF=3.181)
- Riaz, H. W. A., &ul Hassan, M.(2018) ;; A discrete generalized coupled dispersionless integrable system and its multisoliton solutions. , Journal of Mathematical Analysis and Applications, , 458(2) , 1639-1652., (IF=1.138)
- Riaz, H. W. A., &ul Hassan, M(2018). ;; On soliton solutions of multi-component semi-discrete short pulse equation. , Journal of Physics Communications, , 2(2) , 25005, (IF=)
- Wajahat, H., Riaz, A., & Hassan, M(2018). ;; Generalized Lattice Heisenberg Magnet Model and Its Quasideterminant Soliton Solutions. , Theoretical and Mathematical Physics, , 195(2) , 665-675., (IF= 0.851)
- Riaz, M., Bashir, A., & Bashir, M.(2018) ;; An image processing method for automated evaluation of the area of hysteresis loops. , European Journal of Physics, , 39(6), 65501, (IF=0.70)
- Bashir, A., Gallacher, K., Millar, R.W., Paul, D.J., Ballabio, A., Frigerio, J., Isella, G., Kriegner, D., Ortolani, M., Barthel, J. and MacLaren, I(2018). ;; Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure. , Journal of Applied Physics, , 123(3) , 35703,(IF=2.176)
- Amin, B., Majid, F., Saddique, M. B., Haq, B. U., Laref, A., Alrebdi, T. A., & Rashid, M(2018). ;; Physical properties of half-metallic AMnO₃ (A= Mg, Ca) oxides via ab initio calculations. , Computational Materials Science, , 146, 248-254., (IF=2.530)
- Javed, A.,Qurat-ulain& Bashir, M(2018). ;; Controlled growth, structure and optical properties of Fe-doped cubic π -SnS thin films. , Journal of Alloys and Compounds, , 759, 14-21., (IF-3.379)



- Mehmood, S., Javed, A., Rasul, M. N., Khan, M. A., & Hussain, A.(2018) ;; Electronic structure, bonding behavior and optical properties of (HfC) mAl_4C_3 ($m= 1, 2, 3$) carbides. , Journal of Alloys and Compounds,, 741, 76-84., , (IF-3.379)
- Ali, R., Zamir, B., & Shah, H. A.(2018) ;; Transverse electric surface waves in a plasma medium bounded by magnetic materials. , Results in physics, 8, 243-248., (IF=0.94)
- Zamir, B., & Ali, R.(2018) ;; Characteristics of TE Surface Waves in a Plasma Medium Bounded by Nonlinear Metamaterials. , Journal of the Korean Physical Society, , 72(10), 1166-1173 (IF=0.46)
- Ali, M. Z.(2018) ;; Dispersion relations and wave propagation in photonic hypercrystals. , Modern Physics Letters B, , 32(02) , 1750320, (IF= 0.65)
- Mahmood, Q., Yaseen, M., ul Hassan, M., Rashid, M. S., Tlili, I., & Laref, A(2018). ;; The first principle study of mechanical, optoelectronic and thermoelectric properties of $CsGeBr_3$ and $CsSnBr_3$ perovskites. , Materials Research Express, , (IF-1.151)
- Hassan, M., Akhtar, N., Mahmood, Q., & Laref, A.(2018) ;; First principles study of electronic structures of $Cd_{0.9375}Co_{0.0625}X$ ($X= S, Se, Te$) for magnetic, optical and thermoelectric device applications. , Materials Science and Engineering: B,, 238, 50-60., (IF-3.316)
- Mahmood, Q., Khalil, S., Hassan, M., & Laref, A.(2018) ;; Systematic DFT study of the impact of anionic variations on the physical properties of $Cd_{1-x}Mn_xX$ ($XS, Se, Te; x= 6.25\%$)., Materials Research Bulletin, , 107, 225-235., , (IF-2.873)
- Iqbal, M.F., Hassan, M., Razaq, A., Ashiq, M.N., Kaneti, Y.V., Azhar, A.A., Yasmeen, F., Saleem Joya, K. and Abbass, S.(2018) ;; Effect of Graphene Oxide Thin Film on Growth and Electrochemical Performance of Hierarchical Zinc Sulfide Nanoweb for Supercapacitor Applications. , ChemElectroChem, , 5(18) , 2636-2644., (IF-4.446)
- Noor, N. A., Mahmood, Q., Hassan, M., Laref, A., & Rashid, M(2018). ;; Physical properties of cubic $BaGeO_3$ perovskite at various pressure using first-principle calculations for energy renewable devices. , Journal of Molecular Graphics and Modelling, , 84, 152-159. , (IF-1.885)
- Parveen, B., Hassan, M., Riaz, S., Atiq, S., Naseem, S., Irfan, M., & Iqbal, M. F. (2018),; Investigation of physical properties of $SnS: Fe$ diluted magnetic semiconductor nanoparticles for spintronic applications., Journal of Magnetism and Magnetic Materials, , 460, 111-119. , (IF-3.046)
- Mahmood, Q., Ali, S. A., Hassan, M., & Laref, A.(2018) ;; First principles study of ferromagnetism, optical and thermoelectric behaviours of AVO_3 ($A= Ca, Sr, Ba$) perovskites. , Materials Chemistry and Physics, , 211, 428-437., (IF=2.210)
- Ali, S., Rashid, M., Hassan, M., Noor, N. A., Mahmood, Q., Laref, A., & Haq, B. U.(2018), Ab-initio study of electronic, magnetic and thermoelectric behaviors of LiV_2O_4 and $LiCr_2O_4$ using modified Becke-Johnson (mBJ) potential., Physica B: Condensed Matter, , 537, 329-335., (IF=1.453)



- Yousaf, M., Mahmood, Q., Hassan, M., Rashid, M., & Laref, A.(2018) ,; Ab Initio Study of Electronic, Magnetic, and Thermoelectric Response of ZTi_2O_4 ($Z= Mg, Zn, \text{ and } Cd$) Through mBJ Potential., Journal of Superconductivity and Novel Magnetism, 1-9. (IF=1.142)
 - Mahmood, Q., Ashraf, A., & Hassan, M(2018). ,; Investigations of optical and thermoelectric response of direct band gap Ca_3XO ($X= Si, Ge$) anti-perovskites stabilized in cubic and orthorhombic phases. , Indian Journal of Physics, , 92(7), 865-874., (IF=0.988)
 - Hassan, M., Ghazanfar, M., Arooj, N., Riaz, S., Hussain, S. S., & Naseem, S(2018). STRUCTURAL, SURFACE MORPHOLOGICAL AND MAGNETIC STUDIES OF $Zn_{1-x}Fe_xS$ ($x= 0.00-0.10$) DILUTED MAGNETIC SEMICONDUCTORS GROWN BY CO-PRECIPITATION METHOD. , Surface Review and Letters, , 25(01) , 1850044, (IF=0.988)
 - Iqbal, M. F., Ashiq, M. N., Hassan, M. U., Nawaz, R., Masood, A., & Razaq, A. (2018) Excellent electrochemical behavior of graphene oxide based aluminum sulfide nanowalls for supercapacitor applications. , Energy, ., (IF=4.968)
 - Noor, N. A., Hassan, M., Rashid, M., Alay-e-Abbas, S. M., & Laref, A(2018). ,; Systematic study of elastic, electronic, optical and thermoelectric properties of cubic $BiBO_3$ and $BiAlO_3$ compounds at different pressure by using ab-initio calculations. , Materials Research Bulletin, , 97, 436-443. ., (IF=2.873)
 - Iqbal, M. F., Ashiq, M. N., Razaq, A., Saleem, M., Parveen, B., & Hassan, M. U. (2018). Excellent electrochemical performance of graphene oxide based strontium sulfide nanorods for supercapacitor applications. , Electrochimica Acta,, 273, 136-144., (IF=5.116)
 - Hassan, M., Shahid, A., & Mahmood, Q.(2018) ,; Structural, electronic, optical and thermoelectric investigations of antiperovskites A_3SnO ($A= Ca, Sr, Ba$) using density functional theory., Solid State Communications,, 270 , 92-98. ., (IF=1.549)
 - Sarfraz, H., & Saleem, U(2018). ,; Quasideterminant solutions of 2-component non-commutative complex coupled integrable dispersionless system. , Journal of Physics Communications,, 2(8) , 85020, 2018
 - Amjad, Z., & Haider, B.(2018) ,; Darboux transformations of supersymmetric Heisenberg magnet model. , Journal of Physics Communications, , 2(3), 35019, (new)
 - Gill, A.N., Iftikhar, A., Rashid, A., Amin, M., Khan, R.R.M., Rafique, H.M., Jelani, S. and Adnan, A. (2018), Lipase-catalyzed green synthesis of starch–maleate monoesters and its characterization. , Journal of the Iranian Chemical Society, 1-7., (IF=1.593)
- **Conferences, Seminars and Workshops, etc.**
3 (Seminars)
 - **Research Journals**
The following journals are received regularly:
 - Scientific American
 - Nature Physics
 - Cern Courier



- Korian Physics Society
- Nuclear Science
- Nuclear Engineering & Technology
- Scientific Research, published by University of the Punjab

RESEARCH COLLABORATION

- **Indigenous**
Higher Education Commission, Punjab University, Lahore, School of Physical Sciences, PU, Lahore, Lahore University of Management Sciences
- **Foreign Linkages**
 - Department of Radiation Medicine, University of Kentucky, USA, Southside
 - Regional Medical Centre, Petersburg, VA, USA and Department of Electrical
 - Engineering and Computer Science, Michigan State University, USA.
 - International Centre for Theoretical Physics, (ICTP) Italy
- **Funding grants for R&D**
Mostly teachers of the Department of Physics applied for research grants under Faculty Development Programme of PU, Lahore and they were awarded accordingly.

DEPARTMENT OF SPACE SCIENCE

Research & Development An Overview

Research and Development is the integral part of the curricula of all our academic programs. 80 to 90 percent students of academic programs opt the research & report writing (as a paper titled 'Thesis') during the last semester. However, internships are also done by the students. Research and report writing for M.Phil and PhD scholars is mandatory. Software relating to research and development are available as well as hardware.

○ Publications

| Sr. No. | Name of Author | Title of Paper/Article |
|---------|--|---|
| 1 | Javed Sami, Syed Amer Mahmood, S.M.H. Raza and Shahid Ghazi | Socio-political context and inferences from remote sensing in South Asia: Study of Tectonic Induced surface deformation in SE-IKSZ, Research Journal of South Asian Studies, 33 No. 2 |
| 2 | Atif Ali, Anam Khalid, Muhammad Atif Butt, Rashid mehmood, Syed Amer Mahmood, Javed Sami, Jahanzeb Qureshi Kashif Shafique, Asadullah Khan Ghalid, Rizwan Waheed, Farhan Ali, Rais Mukhtar, Muhammad Azhar | Towards a Remote Sensing and GIS Based Technique to Study Population and Urban Growth: A case Study of Multan, Advances in Remote Sensing, 7 245-258 |



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|---|---|--|
| 3 | Naseer Ahmad, Shahid Ghazi, Javed Sami | Seismicity assessment of Fukishama region, Kaulat kinematics and calculation of PGA value for Idosawa Fault in Hamadori Area, Japan in Natural Hazards: Journal of the International Society for the Prevention and Mitigation of Natural Hazards, Springer; International vol. 92(2), pages 1065-1079, June. Impact Factor (1.901). |
| 4 | Jahanzeb Qureshi, Syed Amer Mahmood and Amer Masood | “Remote Sensing Study of Erosion and Tectonics along Kingri Fault Zone (KFZ) in Eastern Suleman Fold and Thrust Belt (ESTB), Baluchistan-Pakistan” in Earth Sciences for Society, 20-24 March. 2018. 1st international congress on Geosciences at Al-Jadida, Morocco. |
| 5 | Amer Masood, Jahanzeb Qureshi, Javed Sami and Syed Amer Mahmood | “Neotectonics in Diamer District: Examples from Remote Sensing, GIS and Fractal Dimension” Earth Sciences for Society, 20-24 March. 2018, 1st international congress on Geosciences at Al-Jadida, Morocco. |
| 6 | Jahanzeb Qureshi, Syed Amer Mahmood, Amer Masood, Pervez Khalid and Imran Siddique Kaukab | “DEM and GIS based Hypsometric Analysis to study Tectonics and Lithologies in Southern Suleman Fold and Thrust Belt (Balochistan–Pakistan)”, Arabian Journal of Geosciences. <i>Impact Factor (0.860)(under review)</i> |
| 7 | Salman Tariq and Zia ul-Haq | Ground Based Remote Sensing of Aerosol properties over a coastal mega-city of Pakistan, <i>Advances in Meteorology</i> , https://doi.org/10.1155/2018/3582191 , vol. 2018, Article ID 3582191, 12 pages. Impact Factor (1.277). |
| 8 | Salman Tariq, Zia ul-Haq, Khalid Mahmood, Asim Daud Rana | Spatio-Temporal Distributions and Trends of Aerosol Parameters over Pakistan Using Remote Sensing, <i>Applied Ecology and Environmental Research</i> , http://dx.doi.org/10.15666/aeer/1603_26152637 , 16(3):2615-2637. Impact Factor (0.681) |
| 9 | Syeda Adila Batool, Zia ul-Haq, Salman Tariq, Asim Daud Rana, Khalid Mahmood, Muhammad Nawaz Chaudhry | Temporal and spatial variations of NO ₂ over Saudi Arabia and identification of major hotspot areas during 2005-2014 by using satellite data in <i>Applied Ecology and Environmental Research</i> . Impact Factor (0.681) |



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|----|---|---|
| 10 | Zia ul-Haq, Asim Daud Rana, Salman Tariq, Khalid Mahmood, Muhammad Ali, Iqra Bashir, 2018. | Modeling of tropospheric NO ₂ column over different climatic zones and land use/land cover types in South Asia, Journal of Atmospheric and Solar-Terrestrial Physics, 168, March 2018, Pages 80–99. Impact Factor (1.326). |
| 11 | M. Atif Butt, Syed Amer Mahmood, Javed Sami, Jahanzeb Qureshi, Muhammad Kashif Nazir, Amer Masood - | BOOK Housing Book Chapter-4 (Collaborative Public Participatory Web Geographic Information System: A Groupware-Based Online Synchronous Collaboration to Support Municipal Planning http://dx.doi.org/10.5772/intechopen.79354 , IntecOpen 2018. |

INSTITUTE OF CHEMISTRY

○ Project

| | |
|----------------------------------|--|
| Name of Principal Investigator | Dr. Zahoor Hussain Farooqi |
| Title of Project | “Synthesis , characterization and catalytic applications of metal nanoparticles fabricated in smart polymer Microgels” |
| Total Approved Budget of project | 38,99034/- |
| Status | in progress |
| Funding agency | Higher Education Commission of Pakistan, NRPU Program |
| Total Funds utilized | 8184456/- |

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|----------------------------------|--|
| Name of Principal Investigator | Dr. Misbah Sultan |
| Title of Project | “Synthesis & Characterization of Amphiphilic Triblock Polyurethane Copolymers to Mimic Biomembranes” |
| Number of Project | Number: 20-2887/NRPU/R&D/HEC/13/464 |
| Total Approved Budget of project | 10,207,271/- |
| Status | in progress |
| Funding agency | Higher Education Commission of Pakistan |
| Total Funds utilized | 8184456/- |

| | |
|--------------------------------|---|
| Name of Principal Investigator | Dr. Madeeha Batool |
| Title of Project | Synthesis and analytical investigation of Clay based metal oxide catalysts for the production of fuel oil from polyethylene waste |



| | |
|----------------------------------|--|
| Total Approved Budget of project | 1.8 million Pak rupees |
| Status | in progress |
| Funding agency | Higher Education Commission of Pakistan, NRP Program |
| Total Funds utilized | 0.75 million Pak rupees |

○ **Research Publications**

▪ Prof. Dr. M. Abdul Qadir (Director)

| Sr. No | Research paper | Name of journal | Vol | International /Local | |
|--------|---|---|-------------|----------------------|-----------|
| | | | | Impact factor | HEC Recog |
| 1 | Sulfonamides containing curcumin scaffold: Synthesis, characterization, carbonic anhydrase inhibition and molecular docking studies | Bioorganic Chemistry | 76 | 3.929 | ✓ |
| 2 | Synthesis of 5-Fluorouracil Derivatives for Enhanced Blood Circulation | <i>Latin American Journal of Pharmacy</i> | 36 (11) : | 0.401 | ✓ |
| 3 | Screening of curcumin-derived isoxazole, pyrazoles, and pyrimidines for their anti-inflammatory, antinociceptive, and cyclooxygenase-2 inhibition | <i>Lat. Am. J. Pharm</i> | 91 | 2.396 | ✓ |
| 4 | Development of Sulfonamides of Contemporary Drugs as Anticancer Agents | <i>Lat. Am. J. Pharm</i> | 37 (6) 2018 | 0.372 | ✓ |
| 5 | 1,3-Oxazepine Compounds Derived from Azomethine: Synthesis, Characterization and Antibacterial Evaluation | <i>Lat. Am. J. Pharm</i> | 37 (3) | 0.372 | ✓ |
| 6 | Effect of Blanching Techniques and Treatments on Nutritional Quality of Dried Mango Slices during Storage | <i>Pol. J. Food Nutr. Sci</i> | 68 (1) | 0.679 | ✓ |



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|---|---|------------------------------------|---------|-------|---|
| 7 | Comprehensive two-dimensional ion chromatography (2D-IC) coupled to a post-column photochemical fluorescence detection system for determination of neonicotinoids (imidacloprid and clothianidin) in food samples | RSC Adv. | 8 | 3.257 | v |
| 8 | Determination of Sofosbuvir and Velpatasvir in Solid Pharmaceutical Dosage Form by HPLC-PDA and its Application to <i>In Vitro</i> Dissolution Studies | <i>Lat. Am. J. Pharm</i> | 37 (6): | 0.372 | v |
| 9 | Synthesis of 1,3-benzoxazines Based on 2,4,4-trimethyl-7,2',4'-trihydroxy Flavan: Antibacterial, Anti-inflammatory, Cyclooxygenase-2 Inhibition and Molecular Modelling Studies | Letters in Drug Design & Discovery | 15 | 0.924 | v |

■ Dr Sadia Ata

| Sr. No. | Title of Research Paper | Name of Publishing Journal | Impact Factor | | | |
|---------|--|--|---------------|--------|-----------|------|
| | | | | volume | page | year |
| 1 | Synthesis of carboxyl-modified Fe ₃ O ₄ nanoparticles and their utilization for the remediation of cadmium and nickel from aqueous solution. | Journal of Chili Chemical Society | 0.2 | 62 | 3588-3592 | 2017 |
| 2 | Nickel nanoparticle synthesis using Camellia Sinensis as reducing and capping agent: Growth mechanism and photocatalytic activity evaluation. | International Journal of Biological Macromolecules | 3.671 | 103 | 783-790 | 2017 |



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|---|--|---|-------|-----|-------------|------|
| 3 | Single step facile synthesis of superparamagnetic Iron Oxide nanoparticles for catalytic pyrolysis applications. | Digest journal of Nanomaterials and Biostructures | 0.836 | 12 | 1197-1203 | 2017 |
| 4 | Platinum Nanoparticles Fabricated Multi-Responsive Microgel Composites: Synthesis, Characterization and Applications | <i>Polymer Composites</i> | 1.943 | 39 | | |
| 5 | Cu nanoparticles synthesis using biological molecule of P. granatum seeds extract as reducing and capping agent: Growth mechanism and photocatalytic activity. | International Journal of Biological Macromolecules. | 3.67 | 106 | 1203-1210 | 2018 |
| 6 | Photo-reduction of heavy metal ions and photodisinfection of pathogenic bacteria simulated solar light using photosensitized TiO ₂ nanofibers | RSC Advances | 2.963 | 8 | 20354–20362 | 2018 |
| 7 | Controlled release of Montelukast Sodium from pH-sensitive injectable hydrogels | Polymer-Plastics Technology and Engineering | 1.655 | | 1525-6111 | 2018 |
| 8 | Grafting of Silica Particles with Linoleic Acid via Modified Stober's Method for Preconcentration of Pesticides in Drinking Water | Key Engineering Materials | | | | 2018 |



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|----|--|---|-------|--|--|------|
| 9 | Structural and Optical Properties of Multilayer Heterostructure of CdTe/CdSe Thin Films | Z. Phys. Chem. | 0.764 | | | 2018 |
| 10 | Graphene and silver decorated ZnO composite synthesis, characterization and photocatalytic activity evaluation | Diamond & Related Materials 90 (2018) 26–31 | 2.232 | | | 2018 |
| 11 | Novel synthesis and enhanced catalytic performance of stable nano-scale Fe, Ag and ZnO nanoparticles: photo-degradation under mercury lamp | Desalination and Water Treatment | 1.631 | | | 2018 |
| 12 | Synthesis and Characterization of ZnO Nanorods as an Adsorbent for Cr(VI) Sequestration | Z. Phys. Chem. | 0.764 | | | 2018 |

▪ Muhammad Imran

| Sr. No | Name of Faculty Member | Title of Research Paper | Name of Publishing Journal | Vol. | International / Local Impact Factor (IF) |
|--------|------------------------|---|-----------------------------------|-------|--|
| | | | | | |
| 1 | Muhammad Imran | Synthesis of surfactant-coated Cobalt Ferrite nanoparticles for adsorptive removal of Acid Blue 45 Dye. | <i>Materials Research Express</i> | 5 | 1.068 |
| 2 | Muhammad Imran | Synthesis and structural studies of bismuth-piroxicam complex | <i>Revista de chimie</i> | 69(7) | 1.442 |
| 3 | Muhammad Imran | Lead Based Organic Frameworks (Pb-MOFs): Structural, Luminescence and Adsorption Aspects | <i>Chemistry Select,</i> | 3(37) | 1.52 |
| 4 | Muhammad Imran | Advancing Dielectric and Ferroelectric Properties of Piezoelectric Polymers by Combining Graphene and Ferroelectric Ceramic Additives for Energy Storage Applications | Materials | 11(9) | 2.72 |



▪ Dr. Tajamal Hussain

| Sr. No. | Type | Title | Journal/ Conference | Impact Factor | Vol. No. | Page Nos. | Date |
|---------|--------------------------------------|--|---|---------------|----------|-----------|------|
| 1 | IF Journal | Tailoring Electrical and Thermal Properties of Polymethyl Methacrylate-Carbon Nanotubes Composites Through Polyaniline and Dodecyl Benzene Sulphonic Acid Impregnation | Polymer Composites | 1.943 | 39 | E1052-59 | 2018 |
| 2 | IF Journal | Polyaniline/Silver-Decorated MWCNT composites with enhanced electrical and thermal properties | Polymer Composites | 1.943 | 39 | E1347-53 | 2018 |
| 3 | IF Journal | Synthesis of antibacterial poly(chloroaniline)/Chromium hybrid composites with enhanced electrical conductivity | Chemistry Central Journal | 2.284 | 12 | 1-7 | 2018 |
| 4 | IF Journal | Synthesis and antibacterial potential of hybrid nanocomposites based on polyorthochloroaniline/copper nanofiller | Polymer Composites | 1.943 | 39 | 4524-31 | 2018 |
| 5 | Non IF Foreign Journal | Polystyrene adsorbed multi-walled carbon nanotubes incorporated polymethylmethacrylate composites with modified percolation phenomena | MRS Advances | NA | 3 | 24-30 | 2018 |
| 6 | Peer Reviewed Conference Proceedings | Tailoring Molecular Imprinted Polymers as Biomimetic recognition Coating for Anti-Diabetic Drugs | 17 th International Meeting of Chemical Sensors 2018 | NA | Online | 696-697 | 2018 |

▪ Dr. Adnan Mujahid

| Sr. No. | Impact Factor Journal Articles | Journal | Year | Volume | Pages | Impact Factor |
|---------|---|-----------------------------------|------|--------|------------|---------------|
| 1 | Micro-Structured Interdigital Capacitors with Synthetic Antibody Receptors for ABO Blood-Group Typing | Sensors and Actuators B: Chemical | 2017 | 242 | 378-383 | 5.667 |
| 2 | Assessing Manganese Nanostructures based Carbon nanotubes composite for the Highly Sensitive Determination of Vitamin C in Pharmaceutical Formulation | Biosensors and Bioelectronics | 2017 | 89 | 822-828 | 8.173 |
| 3 | Surface Acoustic Wave (SAW) for Chemical Sensing Applications of Recognition Layers | Sensors-mdpi | 2017 | 17 | 2716(1-26) | 2.475 |



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|---|--|----------------------|------|--------------------|-------------|-------|
| 4 | Surfactant Incorporated Co Nanoparticles Polymer Composites with Uniform Dispersion and Double Percolation | Journal of Chemistry | 2017 | Article ID 7191590 | 6 Pages | 1.726 |
| 5 | Effects of Fluoride Ion Toxicity on Animals, Plants, and Soil Health: A Review | Fluoride | 2017 | 50(4) | 393-408 | 1.438 |
| 6 | A miniaturized electronic sensor for instant monitoring of ethanol in gasohol fuel blends | RSC Advances | 2018 | 8 | 22952-22962 | 2.936 |
| 7 | Tailoring electrical and thermal properties of polymethyl methacrylate-carbon nanotubes composites through polyaniline and dodecyl benzene sulphonic acid impregnation | Polymer Composites | 2018 | 39 | E1052-E1059 | 1.943 |
| 8 | Polyaniline/silver decorated-MWCNT composites with enhanced electrical and thermal properties | Polymer Composites | 2018 | 39 | E1346-E1353 | 1.943 |
| 9 | Synthesis and antibacterial potential of hybrid nanocomposites based on polyortho-chloroaniline/copper nanofiller | Polymer Composites | 2018 | 39 | 4524-4531 | 1.943 |

■ Dr. Madeeha Batool

- Saira Attique, Madeeha Batool, Muhammad Irfan Jalees, Khurram Shehzad, Umar Farooq, Zakir Khan, Fawad Ashraf, Asma Tufail Shah "Highly efficient catalytic degradation of low-density polyethylene using a novel tungstophosphoric acid/kaolin clay composite catalyst", Turkish journal of chemistry. Doi:10.3906/kim-1612-21, 2018 Impact Factor: 1.292
- Mirza Nadeem Ahmad, Fakher Rafiq, Faisal Nawaz, Tahir Farooq, Muhammad Naveed Anjum, Tajamal Hussain, Sajjad Hassan, Madeeha Batool, Hamad Khalid, Khurram Shehzad, "Synthesis of Antibacterial Poly(o-chloroaniline)/Chromium Hybrid Composites with enhanced Electrical Conductivity" Chemistry Central Journal, 2018, doi.org/10.1186/s13065-018-0416-3 Impact Factor: 2.442
- Robina Begum, Zahoor H. Farooqi, Khalida Naseem, Faisal Ali, Madeeha Batool, Jianliang Xiao and Ahmad Irfan "Applications of UV/vis spectroscopy in characterization and catalytic activity of noble metal nanoparticles fabricated in responsive polymer microgels: A review" *Critical Reviews in Analytical Chemistry*, 2018, DOI 10.1080/10408347.2018.1451299. Impact Factor: 4.000
- Muhammad Waheed Mushtaq, Farah Kanwal, Muhammad Imran, Naila Ameen, Madeeha Batool, Aisha Batool, Shahid Bashir, Syed Mustansar Abbas, Ata urRehman, Saira Riaz, ShahzadNaseem, ZakaUllah, "Synthesis of Surfactant-Coated Cobalt Ferrite Nanoparticles for Adsorptive Removal of Acid Blue 45 Dye" *Materials Research Express*, 2018, 5, doi.org/10.1088/2053-1591/aab6a4 Impact Factor: 1.068
- Sohail Chand, Sarah Ahmad, Madeeha Batool, "Solution Path Efficiency and Oracle Variable Selection by Lasso-type methods", *Chemometrics and Intelligent Laboratory Systems*, 183 (2018) 140-146, 2018 Impact Factor: 2.701



- Muhammad Imran Din, Khalida Naseem, Madeeha Batool, Muhammad Latif Mirza, "Evaluation of Saccharum bengalense as a non conventional biomaterial for biosorption of Mn (II) ions from aqueous solutions" Iranian journal of Chemistry and chemical engineering, In press 2018 ID: IJCCE-2126 (R2) Impact Factor: 0.606
- Dr. Umar Farooq
 - M. Tariq, A. I. Durrani, **U. Farooq**, M. Tariq, "Efficacy of spent black tea for the removal of nitrobenzene from aqueous media" *Journal of Environmental Management*, 223: 771-778, 2018, (IF = 4.005) ---- June 2018
 - A. Yousaf, M. Athar, M. Salman, **U. Farooq**, N. Makshoof, Z. Zaman, M. Sohail, "Biosorptive removal of cobalt from aqueous solution by using native and thiourea modified *Pennisetum glaucum*" *Desalination and Water Treatment*, 103(2): 199-207, 2018, (IF= 1.383) --- Jan 2018
 - Yousaf, M. Athar, M. Salman, **U. Farooq**, F. S. Chawla, "Biosorption characteristics of *Pennisetum glaucum* for the removal of Pb(II), Ni(II) and Cd(II) ions from aqueous medium", *Green Chemistry Letters and Reviews*, 10(4):462-470, 2017 (IF=3.364) ---- Nov 2017
- Dr. Zahoor Hussain Farooqi

| Sr. No. | Name of Faculty member | Title of Research Paper | Name of Publishing Journal | Vol | International /Local |
|---------|---|---|---|-----|----------------------|
| | | | | | Impact Factor |
| 1 | Fehmida Naseer, Muhammad Ajmal, Fouzia Bibi, Zahoor Hussain Farooqi, Muhammad Siddiq* | Copper and cobalt nanoparticle containing poly(acrylic acid-co-acrylamide) hydrogel composites for rapid reduction of 4-nitrophenol and fast removal of malachite green from aqueous medium | <i>Polymer Composites</i> | 39 | 1.943 |
| 2 | Khalida Naseem, Zahoor H. Farooqi*, Robina Begum, Weitai Wu, Ahmad Irfan, Abdullah G. Al-Sehemi | Silver Nanoparticles Engineered Polystyrene-poly(N-isopropylmethacrylamide-acrylic acid) Core Shell Hybrid Polymer Microgels for Catalytic Reduction of Congo Red | <i>Macromolecular Chemistry and Physics</i> | 219 | 2.492 |
| 3 | Sania Ashraf, Robina Begum, Rida Rehan, Weitai Wu, Zahoor H. Farooqi* | Synthesis and characterization of pH-responsive organic-inorganic hybrid material with excellent catalytic activity | <i>Journal of Inorganic and Organometallic Polymers and Materials</i> | 28 | 1.754 |
| 4 | Khalida Naseem, Robina Begum and Zahoor H. Farooqi* | Platinum Nanoparticles Fabricated Multi-Responsive Microgel Composites: Synthesis, Characterization and Applications | <i>Polymer Composites</i> | 39 | 1.943 |



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|----|---|--|--|-----|-------|
| 5 | Khalida Naseem, Zahoor H. Farooqi*, Robina Begum, and Ahmad Irfan | Removal of Congo red dye from aqueous medium by its catalytic reduction using NaBH ₄ in the presence of various inorganic nano-catalysts: A review | <i>Journal of Cleaner Production</i> | 187 | 5.651 |
| 6 | Shoumin Chen, Xuezheng Lin, Zhenghao Zhai, Ruyue Lan, Jin Li, Yusong Wang, Shiming Zhou, Zahoor H. Farooqi and Weitai Wu* | Synthesis and characterization of CO ₂ sensitive poly(ionic liquid) microgels | <i>Polymer Chemistry</i> | 9 | 4.927 |
| 7 | Tajamal Hussain*, Sobia Jabeen, Khurram Shehzad, Adnan Mujahid, Mirza Nadeem Ahmad, Zahoor H. Farooqi and Muhammad Hamid Raza | Polyaniline/silver decorated-MWCNT composites with enhanced electrical and thermal properties | <i>Polymer Composites</i> | 39 | 1.943 |
| 8 | Muhammad Shahid, Zahoor H. Farooqi*, Robina Begum, Khalida Naseem, Muhammad Ajmal and Ahmad Irfan | Designed synthesis of silver nanoparticles in responsive polymeric system for their thermally tailored catalytic activity towards hydrogenation reaction | <i>Korean Journal of Chemical Engineering</i> | 35 | 2.199 |
| 9 | F. Bibi, M. Ajmal, F. Naseer, Z. H. Farooqi and M. Siddiq* | Preparation of magnetic microgels for catalytic reduction of 4-nitrophenol and removal of methylene blue from aqueous medium | <i>International Journal of Environmental Science and Technology</i> | 15 | 2.037 |
| 10 | Maria Arshad, Abbas Khan*, Zahoor H. Farooqi, Muhammad Usman, M. Abdul Waseem, Sayyar Ali Shah and Momin Khan | Green Synthesis, Characterization and Biological Activities of Silver Nanoparticles Using The Bark Extract of Ailanthus Altissima | <i>Materials Science-Poland</i> | 36 | 0.854 |
| 11 | Robina Begum, Zahoor H. Farooqi*, Khalida Naseem, Faisal Ali, Madeeha Batool, Jianliang Xiao and Ahmad Irfan | Applications of UV/vis spectroscopy in characterization and catalytic activity of noble metal nanoparticles fabricated in responsive polymer microgels: A review | <i>Critical Reviews in Analytical Chemistry</i> | 48 | 3.231 |
| 12 | Khalida Naseem, Robina Begum, Weitai Wu, Ahmad Irfan and Zahoor H. Farooqi* | Advancement in Multi-Functional Poly(styrene)-Poly(N-isopropylacrylamide) Based Core Shell Polymer Microgels and their Applications | <i>Polymer Reviews</i> | 58 | 6.490 |



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|----|--|---|---|----|-------|
| 13 | Khalida naseem, Zahoor H. Farooqi*, Muhammad Zia Ur Rehman, Muhammad Atiq Ur Rehman, Robina Begum, Rahila Huma, Aiman Shahbaz, Jawayria Najeeb and Ahmad Irfan | A systematic study for removal of heavy metals from aqueous medium using Sorghum bicolor: An efficient biosorbent | <i>Water Science and Technology</i> | 17 | 1.247 |
| 14 | Zahoor H. Farooqi*, Aysha Ijaz, Robina Begum, Khalida Naseem, Muhammad Usman, Muhammad Ajmal and Usman Saeed | Synthesis and Characterization of inorganic- organic hybrid microgels for catalytic reduction of 4- nitroaniline in aqueous medium | <i>Polymer Composites</i> | 39 | 1.943 |

■ Dr. Zaib Hussain

- Muhammad Tauqeer Ahmed, Syed Ali Raza Naqvi, Rashid Rasheed, Ameer Fawad Zahoor, Muhammad Usman, Zaib Hussain, *"Technetium-99m-Labeled Sulfadiazine: a Targeting Radiopharmaceutical for Scintigraphic Imaging of Infectious Foci Due To Escherichia coli in Mouse and Rabbit Models"* Applied Biochemistry and Biotechnology, DOI 10.1007/s12010-017-2451-2. 2017, Vol. 183 (1), 374-384. Impact Factor 1.751
- Zaib Hussain, Rohama Maqsood, Muhammad Imran Din, Shahzad Maqsood Khan, Akhtar Shahnaz, Mohsin Rashid & Saba Ameen, *"Enhanced Mechanical Properties of Wood Ash and Fly Ash as Supplementary Cementitious Materials"* Advances in Applied Ceramics: Structural, Functional and Bioceramics. DOI: 10.1080/17436753.2017.1321274. 2017, Vol 116, (7), 355-361. Impact Factor 1.325
- Muhammad Asif, Syed Ali Raza Naqvi, Tauqir A. Sherazi, Zulfiqar Ali Khan, Matloob Ahmad, Zaib Hussain, Hassan Mahmood, Sohail Anjum Shahzad, Nasir Mahmood and Muhammad Yar, *"Antioxidant, Antibacterial and Antiproliferative Activities of Pumpkin (Cucurbita) Peel and Puree Extracts - An In Vitro Study"* Pakistan Journal of Pharmaceutical Sciences. 2017, Vol. 30, (4), 1327-1334. Impact Factor 0.649
- Shakeela Naz, Syed Ali Raza Naqvi, Zulfiqar Ali Khan, Asim Mansha, Matloob Ahmad, Ameer Fawad Zahoor, Zaib Hussain, *"Antioxidant, antimicrobial and antiproliferative activities of peel and pulp extracts of red and white varieties of Ipomoea batatas (L) Lam,"* Tropical Journal of Pharmaceutical Research, 2017, Vol. 16, (9), 2221-2229, Impact Factor 0.569
- Muhammad Adeel Shahzad, Syed Ali Raza Naqvi, Rashid Rasheed, Muhammad Yameen, Fauzia Anjum, Muhammad Tauqeer Ahmed, Zaib Hussain, Syed Jawad Hussain Gillani, *"Radiolabelling of benzylpenicillin with Lutetium -177: Quality control and biodistribution study for theranostic infection imaging agent,"* Pakistan Journal of Pharmaceutical Sciences. 2017, Vol. 31, (6), 2349-2354. Impact Factor 0.649



- Muhammad Imran Din, Farhan Arshad, Zaib Hussain, Maria Mukhtar, "Green Adeptness in the Synthesis and Stabilization of Copper Nanoparticles: Catalytic, Antibacterial, Cytotoxicity and Antioxidant Activities," Nanoscale Research Letters, 2017, Vol. 12, 638, Impact Factor 2.833
- Muhammad Imran Din, Rida Khalid, Zaib Hussain, "Minireview: Silver Doped Titanium Dioxide and Silver Doped Zinc Oxide Photocatalysts," Analytical Letters, DOI: 10.1080/00032719.2017.13637702017. 2018, Vol 51, (6), 892-907. Impact Factor 1.206
- Muhammad Imran Din, Rida Khalid, Fiza Akbar, Ghazia Ahmad, Jawayria Najeeb, Zaib un nisa Hussain, "Recent Progress of Poly (N-isopropylacrylamide) Hybrid Hydrogels: Synthesis, Fundamentals and Applications- A Review, " Soft Materials, 2018, Vol. 16, (3), 228-247, Impact Factor 1.132
- Syed Ali Raza Naqvi¹, Muhammad Yameen, Zaib Hussain, Sadia Asim, Muhammad Usman, Naeem-Ul-Haq Khan, Khizar Abbas, "Enzymatic Degradation Study of ¹¹¹In-labeled Minigastrin Peptides Using Cathepsin B Enzyme and AR42J Cancer Cell Line For The Development of Neuroendocrine Tumor Imaging Radiopharmaceuticals", Pak. J. Pharm. Sci., 2018, Vol.31, (6) (Suppl), 2585-2589. Impact Factor 0.804

■ Dr. Muhammad Salman

| Sr. No. | Name of Faculty Member | Title of Research Paper | Name of Publishing Journal | Vol. | International / Local |
|---------|------------------------|---|-------------------------------------|------|-----------------------|
| | | | | | Impact Factor |
| 1 | Muhammad Salman | Biosorptive removal of Cobalt from aqueous solution by using native and thiourea modified <i>Pennisetum glaucum</i> (2018) | Desalination and Water Treatment | 103 | 1.383 |
| 2 | Muhammad Salman | Biosorption characteristics of <i>Pennisetum glaucum</i> for the removal of Pb(II), Ni(II) and Cd(II) ions from aqueous medium (2017) | Green Chemistry Letters and Reviews | 10 | 1.729 |

■ Books Published

| Sr. No. | Name of Faculty Member | Department | Faculty | Title of Book | Year of Publication | Name of Publisher |
|---------|------------------------|------------|---------|-------------------|---------------------|-------------------------|
| 1 | Muhammad Salman | Chemistry | Science | Applied Chemistry | 2017 | Caravan Book Publishers |



- Dr. Imran Din
 - Single Step Facile Synthesis of Superparamagnetic Iron Oxide Nanoparticles For Catalytic Pyrolysis Applications
Mohsin Raza, Muhammad Imran Din, Sadia Ata, Hafiz Arslan Mehmood
Digest Journal of Nanomaterials and Biostructures, 12(4) 2017, 1197-1203 (I.F=0.836)
 - Single step green synthesis of stable nickel and nickel oxide nanoparticles from *Calotropis gigantea*: Catalytic and antimicrobial potentials
Muhammad Imran Din, Amna Ghulam Nabi, Aneela Rani, Maria Mukhtar
Environmental Nanotechnology, Monitoring & Management 9 (2017) 29–36 (I.F=1.79)
 - Recent advancements in the architecting schemes of Zinc oxide based *Photocatalytic assemblies-Review*
Muhammad Imran Din, Jawayria Najeeb, Ghazia Ahmad
Separation & Purification Reviews, 1-27, 2017 (I.F=6.3)
 - Enhanced mechanical properties of wood ash and fly ash as supplementary cementitious materials
Zaib Hussain, Rohama Maqsood, Muhammad Imran Din, Advances in Applied Ceramics Structural, Functional and Bioceramics, 116 (7) 355–361, 2017 (I.F=1.162)
 - Potentials of Indigenous Silty Clay For Eradication of Methyl Blue From Contaminated Media: Kinetic Modeling
Abdul Samad, Muhammad Imran Din
Journal of Optoelectronics and Biomedical Materials 9(4) 2017, 159 - 169
 - Mini review: Silver Doped Titanium Dioxide and Silver Doped Zinc Oxide Photocatalysts
Muhammad Imran Din, Rida Khalid, Zaib Hussain
Analytical Letters, 58, 1-8, (2017) (I.F=1.150)
 - Comparative study of different activation treatments for the preparation of activated carbon: a mini-review
Muhammad Imran Din, Sania Ashraf, Azeem Intisar
Science Progress (2017), 100(3), 1–14
 - Synthesis, Characterization and Applications of Copper Nanoparticles
Muhammad Imran Din, Rida Rehan
Analytical Letters; 50(1), 50-62, 2017 (I.F=1.150)
 - Influence of Electrolytes on Decontamination of Cu(II) Ions By Surface of Coconut Coir
F. Kausar , N. Khalid , M. L. Mirza, Muhammad Imran Din
Journal of Optoelectronics and Biomedical Materials 9(2) 2017, 107 – 119



- Single Step Green Synthesis of Stable Copper Oxide Nanoparticles as Efficient Photo Catalyst Material
Muhammad Imran Din , Farhan Arshad, Anila Rani, Ayesha Aihetasham, Maria Mukhtar, Hafiz Arslan Mehmood
Journal of Optoelectronics and Biomedical Materials 9(1) 2017, 41 – 48
- Biosorption Potentials of Acid modified Saccharum Bengalense for removal of Methyl Violet from Aqueous Solutions
Muhammad Imran Din*, Kiran Ijaz, Khalida Naseem
Chemical Industry & Chemical Engineering Quarterly 23(03):399-409, 2017 (Impact Factor: 0.664)
- Bioactivity of Extracts of *Foeniculum vulgare* and *Ocimum basilicum* against *Heterotermes indicola* (Wasmann)
Ayesha Aihetasham, Muhammad Saeed Akhtar, Maryam Umer, Khalid Zamir Rasib, Muhammad Imran Din, *Pakistan J. Zool.*, 49(6), 2193-2199, 2017.(I.F=0.9)
- Recent progress of poly (N-isopropylacrylamide) hybrid hydrogels: synthesis, fundamentals and applications – review
Muhammad Imran Din*, Rida Khalid, Fiza Akbar, Ghazia Ahmad, Jawayria Najeeb & Zaib Un Nisa Hussain, *Soft Materials*, 16(3), 228-247, 2018. (IF= 1.132)
- Mini review: Silver Doped Titanium Dioxide and Silver Doped Zinc Oxide Photocatalysts
Muhammad Imran Din*, Rida Khalid, Zaib Hussain
Analytical Letters, 58 (6), 892–907, 2018. (IF= 1.206)
- Selection of optimum strategies for the fabrication of plant mediated metal nanoparticles: Emerging problems in sustainability
Muhammad Imran Din*, Aneela Rani
Critical Reviews in Analytical Chemistry, 48(5): 406-415, 2018. (IF= 3.231)
- Dr. Maliha Uroos
 - Abdul Hameed, Mariya al-Rashida, Maliha Uroos, Syed Abid Ali, and Khalid Mohammed Khan “*Schiff Bases and their Metal Complexes in Medicinal Chemistry: A Patent Review (2010-2015)*” *Expert Opinion on Therapeutic Patents*, 2017, 27 (1), 63-79, (Impact factor: 3.041)
 - Maliha Uroos, Zaigham Abbas, Shumaila Sattar, Nigarish Umer, Arham Shabbir, Shafiq-ur-Rehman and Ahsan Sharif “*Nyctanthes arbor-tristis Ameliorated FCA-Induced Experimental Arthritis: A Comparative Study among Different Extract*” *Evidence-Based Complementary and Alternative Medicine*, 2017, doi.org/ 10.1155/2017/4634853 (Impact factor: 1.740)
 - Abdul Hameed, Mariya al-Rashida, Rima D. Alharthy, Maliha Uroos, Ehsan Ullah Moughal, Syed Abid Ali, and Khalid Mohammed Khan “*Small Molecules as Activators in Medicinal Chemistry: A Patent Review (2010-2016)*” *Expert Opinion on Therapeutic Patents*, 2017, 27 (10), 1089-1110, (Impact factor: 3.041)



- Huma Aslam Bhatti, Yildiz Tehseen, Kiran Maryam, Maliha Uroos, Bina S. Siddiqui, Abdul Hameed and Jamshed Iqbal *"Identification of new potent inhibitor of aldose reductase from Ocimum basilicum"* *Bioorganic Chemistry*, 2017, 75, 62-70, (Impact factor: 3.231)
- Maliha Uroos, Phillip Pitt, Laurence M. Harwood, William Lewis, Alexander J. Blake and Christopher J. Hayes *"Total synthesis of (-)-aritasone via the ultra-high pressure hetero-Diels–Alder dimerisation of (-)-pinocarvone"* *Organic & Biomolecular Chemistry*, 2017, 15, 8523-8528, (Impact factor: 3.564)
- Misbah Sultan, Asma Javeed, Maliha Uroos, Muhammad Imran, Farhat Jubeen, Shazia Nouren, Nazish Saleem, Ismat Bibi, Rashid Masood, Waqas Ahmed *"Linear and crosslinked Polyurethanes based catalysts for reduction of Methylene Blue"* *Journal of Hazardous Materials*, 2018, 344, 210-219, (Impact factor: 6.065)
- Abdul Hameed, Mariya al-Rashida, Maliha Uroos, Syed Abid Ali, Arshia, Marium Ishtiaq & Khalid Mohammed Khan *"Quinazoline and Quinazolinone as Important Medicinal Scaffolds: A Comparative Patent Review (2011-2016)"* *Expert Opinion on Therapeutic Patents*, 2018, 28 (4), 281-297, DOI: 10.1080/13543776.2018.1432596 (Impact factor: 3.041)
- Bushra Iqbal, Nawshad Muhammad, Abdur Rahim, Farasit Iqbal, Faiza Sharif, Sher Zaman Safi, Amir Sada Khan, Girma Gonfa, Maliha Uroos, Ihtesham Ur Rehman *"Development of collagen/PVA composites patches for Osteochondral defects using a green processing of ionic liquids"* manuscript under review in *The International Journal of Polymeric Materials and Polymeric Biomaterials*, 2018, 1-7 doi.org/10.1080/00914037.2018.1474358 (Impact factor: 2.127)
- Saliha Saher, Haris Saleem, Azmat Mehmood Asim, Maliha Uroos, Nawshad Muhammad, *"Pyridinium based ionic liquids: A pretreatment solvent & reaction medium for catalytic conversion of cellulose to Total Reducing Sugars (TRS)"* *Journal of Molecular Liquids*, 2018, 272, 330-336 (Impact factor: 4.513)
- Muhammad Tariq Shehzad, Aqeel Imran, Guy Sidar Singor Njateng, Abdul Hameed, Muhammad Islam, Mariya al-Rashida, Maliha Uroos, Asnuzilawati Asari, Zahid Shafiq, Jamshed Iqbal, *"Benzoxazinone-thiosemicarbazones as antidiabetic leads via aldose reductase inhibition: Synthesis, biological screening and molecular docking study"* *Bioorganic Chemistry*, 2018, Accepted (in press) doi.org/ 10.1016/j.bioorg.2018.12.006, (Impact factor: 3.929)



▪ Dr. Azeem Intisar

| Sr. No | Author(s) Name | | Title of Research Publication | Name of Publishing Journal & Country | IF 2017 | Vol. No. | Pages |
|--------|--|------|--|--|---------|----------|---------|
| 1. | Rahat Noreen, Azeem Intisar*, Abdul Ghaffar, Farkhanda Jabeen, Muhammad Amin Abid, Muhammad Imran Din, Muhammad Irfan, Faiza Faiz, and Tayyaba Sattar. | 2018 | Constituents of Volatile Oil from Bark of Clerodendrum serratum (L.) and its Antibacterial Activity. | Journal of Essential Oil Bearing Plants (United Kingdom) | 0.681 | 21 | 198-205 |

▪ Dr. Misbah Sultan

| Sr. No | Title of Research Paper | Name of Publishing Journal | Vol. | International / Local Impact Factor (IF) |
|--------|---|---|------|--|
| 1 | Synthesis, Characterization, and Application Studies of Polyurethane Acrylate Thermoset Coatings: Effect of Hard Segment. | Polymer-Plastics Technology and Engineering | 56 | 1.232 |
| 2 | Green and eco-friendly synthesis of cobalt-oxide nanoparticle: Characterization and photo-catalytic activity. | Advanced Powder Technology | 28 | 2.659 |
| 4 | Hydroxyapatite/polyurethane composites as promising biomaterials | Chemical Papers | 72 | 0.963 |
| 5 | Linear and crosslinked Polyurethanes based catalysts for reduction of methylene blue. | Journal of Hazardous Materials | 344 | 6.434 |
| 6 | Co-concentration effect of silane with natural extract on biodegradable polymeric films for food packaging. | International Journal of Biological Macromolecules. | 106 | 3.909 |

○ Book Publications

| Sr. No | Name of Faculty Member with co-authors (Dr. Misbah Sultan) | Department | Faculty | Title of Book | Year of Publication | Name of Publisher |
|--------|--|------------|----------|----------------------------------|---------------------|--------------------|
| 1 | Misbah Sultan | Chemistry | Sciences | Applied Chemistry (Chapter # 20) | 2017 | Caravan Book House |



▪ Dr. Rabia rehman

| Sr. No | Research paper | Name of journal | Vol | International /Local | |
|--------|--|---|-----|----------------------|------------|
| | | | | Impact factor (IF) | HEC Recog |
| 1 | Sorptive Removal of Direct Blue-15 Dye from Water using Camellia sinensis and Carica papaya leaves, Bulgarian Chemical Communications, 49(1), 20-25, (2017). | <i>Bulgarian Chemical Communications</i> | 49 | 0.238 | ✓ |
| 2 | Diamond green dye adsorptive removal from water by carrot pulpy waste and potato peels, Bulgarian Chemical Communications, 49(4), 816-822 (2017). | <i>Bulgarian Chemical Communications</i> | 49 | 0.238 | ✓ |
| 3 | Analysis of Caffeine Contents in Commercial Beverages and Tea Samples of Pakistan using UV-Visible Spectrometer, Bulgarian Chemical Communications, 49(4), 823-828 (2017). | <i>Bulgarian Chemical Communications</i> | 49 | 0.238 | ✓ |
| 4 | Batch wise sorptive amputation of Diamond green dye from aqueous medium by novel Polyaniline- <i>Alstonia scholaris</i> leaves composite in ecofriendly way, <i>Journal of Cleaner Production</i> , 196, 350-357 (2018). | <i>Journal of Cleaner Production</i> | 196 | 5.651 | |
| 5 | Biosorptive decontamination of Acid Red-87 dye from wastewater by <i>Citrus limonum</i> Peels in ecofriendly way, <i>Pakistan Journal of Analytical & Environmental Chemistry</i> , 19(1), 44-52 (2018). | <i>Pakistan Journal of Analytical & Environmental Chemistry</i> | 19 | | y category |



| | | | | | |
|---|---|---|-----|-------|--|
| 6 | Isothermal study of Congo Red dye biosorptive removal from water by <i>Solanum tuberosum</i> peels and <i>Pisum sativum</i> peels in economical way, <i>Bulletin of the Chemical Society of Ethiopia</i> , 32(2), 213-223(2018). | <i>Bulletin of the Chemical Society of Ethiopia</i> | 32 | 0.872 | |
| 7 | Usage of fruit-fibers of <i>Luffa cylindrica</i> for the sorptive removal of Direct Blue 15 dye from water, <i>Desalination and Water Treatment</i> , 120(July), 350-360 (2018). DOI: https://doi.org/10.5004/dwt.2018.22733 | <i>Desalination and Water Treatment</i> | 120 | 1.383 | |
| 8 | Synthesis and Characterization of BaTiO ₃ /polypyrrole Composites with Exceptional Dielectric behaviour, <i>Polymers</i> , 10(11), 1273, 1-17 (2018). DOI: polymers-323258doi:10.3390/polym10111273 | <i>Polymers</i> | 110 | 2.935 | |
| 9 | Microwave treated <i>Gardenia jasminoides</i> leaves for adsorptive removal of Direct Red-28 Dye in environmental benign way, <i>REVISTA DE CHIMIE</i> , 69,12, 2018 | <i>REVISTA DE CHIMIE</i> | 69 | 1.412 | |

○ **Books Published**

| Sr. No | Name of Faculty | Title of Book | Year of Publication | Name of Publisher |
|--------|-----------------|---|---------------------|--------------------|
| 1 | Rabia Rehman | Three chapters were contributed in "Principles of Analytical Chemistry" | 2017 | Caravan Book House |
| | Rabia Rehman | Advanced Experimental Inorganic Chemistry | 2017 | |



- Dr. M. Asim Raza Basra
 - Yasir Arfat, Muhammad Asim R. Basra, Muhammad Shahzad, Kashif Majeed, Nasir Mahmood, Hina Munir, "miR-208a-3p suppresses osteoblast differentiation and inhibits bone formation by targeting ACVR1". *Molecular Therapy-Nucleic Acids*, <https://doi.org/10.1016/j.omtn.2017.11.009>, 2018, 11, 323-36. (IF: 6.392)
 - Ayesha Ramzan, Sara Siddiqui, Ahmad Irfan, Abdullah G. Al-Sehemi, Aftab Ahmad, Francis Verpoort, Adeel H. Chughtai, Misbahul A. Khan, Munawar A. Munawar, Muhammad Asim R Basra, "Antiplatelet activity, molecular docking and QSAR study of novel N'-arylmethylidene-3-methyl-1-phenyl-6-p-chlorophenyl-1Hpyrazolo[3,4-b] pyridine-4-carbohydrazides". *Medicinal Chemistry Research*, 2018, 27(2), 388-405. (IF: 1.277)
 - Majda Batool, Affifa Tajammal, Firdous Farhat, Francis Verpoort, Zafar A. K. Khattak Mehr-un-Nisa, Muhammad Shahid, Hafiz Adnan Ahmad, Munawar Ali Munawar, Muhammad Zia-ur-Rehman, Muhammad Asim Raza Basra, "Molecular Docking, Computational, and Antithrombotic Studies of Novel 1,3,4-Oxadiazole Derivatives". *International Journal of Molecular Sciences*, 2018, 19, 3606 (IF: 3.687)
 - Affifa Tajammal, Majda Batool, Ayesha Ramzan, Malka M. Samra, Idrees Mahnoor, Francis Verpoort, Ahmad Irfan, Abdullah G. Al-Sehemi, Munawar Ali Munawar, Muhammad Asim R. Basra. "Synthesis, antihyperglycemic activity and computational studies of antioxidant chalcones and flavanones derived from 2,5-dihydroxyacetophenone". *Journal of Molecular Structure*, 2017, 1148, 512-20. (IF: 1.753)

INSTITUTE OF GEOLOGY

○ Research & Development: An Overview

The Institute of Geology, University of the Punjab is oldest seat of learning in the discipline of Geology, and is providing trained indigenous workforce equipped with strong academic background in natural resources to the industry. Over the years, the Institute of Geology has evolved to hold a unique position in the country in geologic education. Bachelor of Science degree being offered at the Institute of Geology is a blend of theory, observation, laboratory studies and basic sciences, with special emphasis on fieldwork. While, M.Phil. in Applied Geology is a professional career oriented program, having diversified fields of specialization addressing major areas of geoscience, enabling the students to take up specialized professional career as geologists in industry and to be prepared to step forward to higher education in a specific field of geology.

Institute of Geology has produced 88 graduates of B.S. Applied Geology, 27 M.Phil. Applied Geology degree programs in the discipline of Geology during the academic year 2017-18.



○ **Project:** Newly launched

During the report period 2017-18 following research projects have been completed by the faculty members at the Institute.

| Sr. No. | Projects Title | Investigator | Amount (Rs.) | Sponsoring Agency | Duration (year) |
|---------|--|--------------------------|--------------|----------------------------------|-----------------|
| 1 | Biostratigraphy of Patala Formaion, Kala Chitta area, Northern, Pakistan | Dr. Shahid Jamil Sameeni | 200,000 | University of the Punjab, Lahore | 01 year |
| 2 | Sedimentary Geology of the Precambrian Hazara Formation, Hazara Area, Pakistan | Prof. Dr. Shahid Ghazi | 250,000 | -do- | -do- |
| 3 | Depositional settings and hydrocarbon potential of Margala Hills limestone, Khanpur SW, Hazara, NW Himalaya, Pakistan | Prof. Dr. Naveed Ahsan | 200,000 | -do- | -do- |
| 4 | Rock Characterization and Support Assessment by Empirical Methods for a 20 km long power tunnel of a Hydropower Project along China-Pakistan Economic Corridor (CEPEC), District Kohistan, KPK, Pakistan | Dr. Sohail Akram | 150,000 | -do- | -do- |
| 5 | Statistical Approach for Water Quality Trends of Rawal Lake and Its Tributaries: A Case Study | Mr. Muhammad Sanaullah | 150,000 | -do- | -do- |
| 6 | Industrial Application of the Paleocene Hangu Formation from Kala Chitta & Hazara Area, Pakistan | Mr. Shahid Ali | 125,000 | -do- | -do- |

○ **Publications**

Following research papers have been published by the faculty members during the report period 2017-18

| Sr. No | Authors & Co-Authors | Title of Research Paper | Name of Publishing Journal | Vol. | International / Local | | | |
|--------|--|--|--|-------------|-----------------------|-----------|-------|-------------------------|
| | | | | | Impact factor (if) | HEC Recog | Other | Conferences Proceedings |
| 1. | Mirza, K., Akram, M. S., Khan, D., Lodhi, K. K. R. & Zeeshan, M. | Integrated microfacies analysis of lower Paleogene carbonate rocks of Kasanwala area, Western Salt Range, North Western Himalayas, Pakistan. | Journal of Biodiversity and Environmental Sciences | 13(4): 1-15 | | X | | |



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|----|--|---|--|-------------------|--|---|--|--|
| 2. | Mirza, K., Akram, M. S., Khan, D., Lodhi, K. K. R. & Zeeshan, M. | Microfacies Analysis and reservoir characters of Eocene Carbonates of Khair-i-Murat Range, Northern Potwar Deformed Zone (NPDZ), Sub-Himalayas, Pakistan. | Journal of Biodiversity and Environmental Sciences | 13(4): 88-100 | | X | | |
| 3. | Dasti, N., Akram, M. S., Ahmad, I. & Usman, M. | Rock fractures characterization in Khairi Murat Range, Sub Himalayan Fold and Thrust Belt, North Pakistan. | The Nucleus | 55 (3): 115-127 | | Y | | |
| 4. | Akram, M. S., Ahmed, L., Ali, M., Ullah M. F. & Rehman, F. | Numerical verification of Empirically designed support for a headrace tunnel: A case study from District Battagram, Khyber Pakhtunkhwa, Pakistan. (http://dx.doi.org/10.28991/cej-03091182) | Civil Engineering Journal. | 4 (11): 2575-2587 | | X | | |
| 5. | Akram, M. S., Mirza, K., Iqbal, A. & Zeeshan, M. | Development and Validation of Portable Electronic Sensor to Detect the Soil Moisture for Geotechnical Investigations. | Journal of Biodiversity and Environmental Sciences | 13(4): 63-72 | | X | | |



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|-----|--|---|---|------------------------|-------|---|--|--|
| 6. | Akram, M. S., Ahmed, L., Farooq, S., Ahad, M. A., Zaidi, S. M. H. & Khan, M. | Geotechnical Evaluation of Rock Cut Slopes using Basic Rock Mass Rating (RMR basic), Slope Mass Rating (SMR) and Kinematic Analysis along Islamabad Muzaffarabad Dual Carriageway (IMDC), Pakistan. | Journal of Biodiversity and Environmental Sciences | 13(1): 297- 306, | | X | | |
| 7. | Ullah, M. F. & Akram, M. S. | Coal mining trends and future prospects: A case study of Eastern Salt Range, Punjab, Pakistan. | Journal of Himalayan Earth Sciences | 51(2A) : 87- 93 | | X | | |
| 8. | Ullah, M. F. & Akram, M. S. | Coal Mining Trends, Approaches and Safety Hazards: a brief review. DOI: 10.1007/s12517- 018-3977-5 | Arabian Journal of Geosciences | 11(21) | 0.860 | | | |
| 9. | Saleem, U., Akram, M.S., Ullah, M.F. and Rehman, F. | Accurate Imputation for Relative Humidity over Pakistan Gathered from AQUA Satellite. https://doi.org/10.4236/ojg.2018.810059 | Open Journal of Geology | 8: 987- 1001 | | X | | |
| 10. | Saleem, U., Akram, M.S., Ullah, M.F., Rehman, F. and Khan, M.R. | AQUA Satellite Data and Imputation of Geopotential Height: A Case Study for Pakistan. https://doi.org/10.4236/ojg.2018.810060 | Open Journal of Geology | 8: 1002- 1018 | | X | | |



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|-----|--|--|--|------------------------|-------|---|--|--|
| 11. | Akram, M.S., Mirza, K., Zeeshan, M., Ali, M. and Ahmed, L. | Geotechnical Investigation and Prediction of Rock Burst, Squeezing with Remediation Design by Numerical Analyses along Headrace Tunnel in Swat Valley, Khyber Pakhtunkhwa, Pakistan. https://doi.org/10.4236/ojg.2018.810058 | Open Journal of Geology | 8: 965- 986 | | X | | |
| 12. | Akram, M.S., Mirza, K., Zeeshan, M. and Jabbar, M.A. | Assessment of Rock Mass Quality and Deformation Modulus by Empirical Methods along Kandiah River, KPK, Pakistan. https://doi.org/10.4236/ojg.2018.810057 | Open Journal of Geology | 8: 947- 964 | | X | | |
| 13. | Ahmad, B., Akram, M. S., Ahmed, N. & Jamil, S. | Geological and geotechnical investigations at dam site for site characterization of 4320MW Dasu hydropower project, Northern Pakistan. | Himalayan Geology | 39(2): 171- 187. | 0.41 | | | |
| 14. | Akram, M. S., Zeeshan, M. & Ali, A. | Stability Analysis of Landslide near Dewal Village along Murree- Muzaffarabad Road, Pakistan. https://doi.org/10.1007/s12594-018-0931-9 | Journal of the Geological Society of India | 91: 729- 735 | 0.632 | | | |



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|-----|--|--|---|------------------|-------|--|--|--|
| 15. | Akram, M. S., Sharrock, G. B. & Mitra, R. | Investigating mechanics of conglomeratic rocks: influence of clast size distribution, scale and properties of clast and interparticle cement. Published online https://doi.org/10.1007/s10064-018-1274-x | Bulletin of Engineering Geology and the Environment | | 1.825 | | | |
| 16. | Akram, M. S. & Zeeshan, M. | Rock Mass Characterization and Support Assessment along Power Tunnel of a Hydropower in Kohistan Area, KPK, Pakistan. https://doi.org/10.1007/s12594-018-0839-4 . | Journal of the Geological Society of India | 91(2): 221–226 | 0.632 | | | |
| 17. | Khalid, P., Ehsan, M. I., Akram, M. S., Din, Z. U. & Ghazi, S. | Integrated Reservoir Characterization and Petrophysical Analysis of Cretaceous Sands in Lower Indus Basin, Pakistan. | Journal of Geological Society of India | 92(4): 465 – 470 | 0.632 | | | |
| 18. | Ahmed, N., Kausar, T., Khalid, P. & Akram, M. S. | Assessment of Reservoir Rock Properties from Rock Physics Modeling and Petrophysical Analysis of Borehole Logging Data to Lessen Uncertainty in Formation Characterization in Ratana Gas Field, Northern Potwar, Pakistan. | Journal of Geological Society of India | 91(6): 736-742 | 0.632 | | | |



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|-----|--|---|---|--------------------|-------|--|--|---|
| 19. | Farid A., Khalid P. Ali, M.Y., Iqbal M.A., & Jadoon K.Z. | Seismic Stratigraphy of the Mianwali and Bannu Depressions, North-western Indus Foreland Basin. | International Journal of Earth Sciences | 107(5) : 1557-1578 | 2.276 | | | |
| 20. | Khalid, P., Ullah S. and Farid A. | Application of electrical resistivity inversion to delineate salt and freshwater interfaces in quaternary sediments of northwest Himalaya, Pakistan. | Arabian Journal of Geosciences | 11(6): 1-11 | 0.955 | | | |
| 21. | Majeed A., Ullah W., Anwar A.W., Shuaib A., Ilyas U, Khalid P., Mustafa G., Junaid M., Faheem B., and Ali S. | Cost-effective biosynthesis of silver nanoparticles using different organs of plants and their antimicrobial applications: A review. | Materials Technology | 33(5): 313-320 | 1.227 | | | |
| 22. | Khalid P., Ahmed N., Din Z.U. & Missen M. M.S. | Estimation of reservoir properties from well logs and core plugs to reduce uncertainty in Formation evaluation: a case study from the Kohat-Potwar Geologic Province. | Episodes | 41(1): 59-68 | 1.188 | | | |
| 23. | Muhammad Armaghan Faisal Miraj, Christophe Pascal, Roy H. Gabrielsen, Jan Inge Faleide | Numerical modeling of Cenozoic basin inversion of western Barents Sea. | | | | | | Oral presentation in AAPG-ACE 20-23 May, 2018, Salt Lake City, Utah, USA. |



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|-----|--|---|--|------|--|--|------------------|---|
| 24. | Naveed Ahsan, Faisal Shah, Muhamamd Armaghan Faisal. Miraj | Stages of Development of Jaccobabad-Khairpur High and Its Impact on Petroleum Plays of the Region, Southern Indus Basin, Pakistan | | | | | | An Overview Based on Well Data. Poster presentation in AAPG-ACE 20-23 May, 2018, Salt Lake City, Utah, USA. |
| 25. | Muhamamd Armaghan Faisal. Miraj, Hassan Mehmood, Muhammad Kashif, Syed Hassaan Zaidi, Naveed Ahsan | Fracture analysis and discrete fracture network modelling of Early Eocene Sakesar limestone, Eastern Salt Range, Potwar Plateau, Pakistan. | | | | | | Poster Presentation in HKT, 08-10 September 2018, Lausanne, Switzerland. DOI: 10.5281/zenodo.1403887. s |
| 26. | Naveed Ahsan, Tariq Mahmood, Abdul Qayyum, Sair ur Rehman | Muzaffarabad paleohigh, NW Himalaya, Pakistan: Its impacts on depositional settings and development of Hazara-Kashmir syntaxis. | | | | | | Poster Presentation in HKT, 08-10 September 2018, Lausanne, Switzerland. DOI: 10.5281/zenodo.1403887 |
| 27. | Sanaullah, M., Rehman, A., Iman. S. and Zafar, I.R. | Optimizing agricultural benefits of partial and complete lining scenarios using Indus Basin Model Revised (IBMR): case for Greater Thal Canal | MATTER: International Journal of Science and Technology ISSN 2454-5880, Special Issue. | | | | Thoms on Reuters | |
| 28. | Soomro, S.H., Sanaullah, M., Zaman N., <i>Laghari</i> , A.Q., Jalbani, N.B., Kamran, M. and Abbasi, E.A. | Synthesis and Characterization of Poly (styrene)-block-Poly (acrylic acid) and Organoclay Based Hybrid Composite Materials. | Engineering, Technology & Applied Science Research. | 8(5) | | | Thoms on Reuters | |



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|-----|--|--|--|-------------------------|------|--|------------------------|---|
| 29. | Zaman N., Ahmed, S. Sanaullah, M., Rehman, A., Shar, A. R. and Luhur, M. R. | Fabrication of Hybrid Nanocomposite Materials: Characterization of Organoclay Reinforced Polyester Based Hybrid Composite Materials. | Engineering, Technology & Applied Science Research. | 8(3): 3038- 3040 | | | Thoms on Reuters | |
| 30. | Sanaullah, M., Ahmed, I., Arslan, M., Ahmad S.J, and Zeeshan. M. | "Evaluating Morphometric Parameters of Haro River Drainage Basin in Northern Pakistan | Journal of Environmental Studies | 27 (1): 459- 465. | 1.10 | | | |
| 31. | Muhammad Sanaullah, Sajjad ahmad, Sajid Rashid Ahmad, Zameer Ahmad Soomro | Evaluation of Ground Water Recharge Capacity Through Invert Wells in Lahore City | | | | | | 38th All Pakistan Science Conference on Energy Crises and Their Solutions In Pakistan at University of the Punjab, Pakistan. |

○ **Conferences, Seminars and Workshops, etc.**

Organized

The Institute of Geology has organized following seminars/workshops during the academic year 2017-18.

- A Seminar on "Nature for Water" was organized by the Institute of Geology on April 5, 2018.

Participated

- Dr. Shahid Jamil Sameeni, Director participated in International Conference on "Earth Sciences Pakistan 2018" at Baragali from 11-12 August, 2018.
- Prof. Dr. Naveed Ahsan, Dr. M. Armaghan Faisal and students participated in a day course on 1st September 2018 regarding Paper Presentation Contest 2018 at Islamabad organized by the Pakistan Association of Petroleum Geoscientists.
- Mr. Muhammad Sanaullah, Lecturer participated in conference on "Hydropower: A Vital role for Sustainable Energy for Pakistan" at UET, Lahore from December 19-20, 2017.
- Mr. Muhammad Sanaullah, Lecturer participated in 5th International conference on "Research in Education" at IER, University of the Punjab, Lahore from November 21-23, 2017.



- Mr. Muhammad Sanaullah, Lecturer participated in training workshop on “Sediment transport Modelling in rivers and Reservoirs” at UET, Lahore on January 10, 2018.
- Mr. Muhammad Sanaullah, Lecturer participated in seminar on “Management of Water Scarcity & Security Issues of Pakistan” at UET, Lahore from on February 26, 2018.
- **Research Journals**
Institute of Geology publishes an annual research journal “The Geological Bulletin of the Punjab University” up-coming Vol. 46 & 47 is under printing process.

RESEARCH COLLABORATION

- **Indigenous**
 - Research collaboration with Pakistan Association of Petroleum Geologists (PAPG).
 - Research collaboration with Oil & Gas Training Institute (OGTI) and Oil & Gas Development Corporation (OGDCL), Islamabad.
 - Research Collaboration with Pakistan Petroleum Limited(PPL), Karachi
- **Foreign Linkages**
 - Linkages with Seismic Micro Technology Inc. Katy Freeway, Houston Texas, USA.
 - Hydrological Institute, Sweden
 - M/S Thies, Germany

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Research and Development**
In order to promote the research culture and activities, a research advisory committee has been constituted, which is responsible for setting up guidelines pertaining to MPhil and PhD degree programs, as well.
Furthermore, research labs in the following areas have been established:
 - Computer Vision
 - Parallel and Distributed Computing
 - Internet of Things
 - Artificial Intelligence and Multidisciplinary Research Lab
 - Cloud Computing
 - Image & vision Computing Lab
 - Information systems lab / Natural Language Processing Lab
 - Compiler & HPC Lab/ Imaging & Data Science Lab

The above mentioned labs are being used for conducting research, by the graduate students.

- **Research Journals**

| Name of Author | Title of Paper/Article |
|------------------------------------|--|
| Arifa Mirza and Mehmood ul Hassan, | Integrability Properties of a Supersymmetric Coupled Dispersionless Integrable System, Theoretical and Mathematical Physics, 195(3), 825-833 (2018). |



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| Malik zawwar Hussain, Farsia Hussain and Muhammad Sarfraz, | Shape Preserving Positive Trigonometric Spline Curves, Iran J Sci Technol Trans Sci (2018) 42:763–775. |
| Jonathan L. Gross, Imran F. Khan, Toufik Mansour and Thomas W. Tucker, | 2018. Calculating Genus Polynomials Via String Operations And Matrices. Ars Mathematica Contemporanea 15, Pages 267–294 |
| Authors: Muhammad Idrees, Faisal Aslam, Khurram Shahzad, Syed Mansoor Sarwar | Towards a Universal Framework For Visual Programming Languages |
| T. Minhas, O. Nawaz, M. Fiedler and S. Khatibi, | “The Effects of Additional Factors on Subjective Quality Assessments,” in Proceeding of ICACS 2019: IEEE |
| M. Idrees, F. Aslam, K. Shahzad, M. Sarwar. | Towards a Framework for Visual Programming Languages. Pakistan Journal of Engineering and Applied Science, vol. 23, no. 1, pp. 55-65. 2018. category Journal |
| Ahmad, Sanam, Syed IrtazaMuzaffar, KhurramShahzad, and Kamran Malik. | Using BPM Frameworks for Identifying Customer Feedback About Process Performance. In International Conference on Advanced Information Systems Engineering, pp. 55-69. Springer, Cham, 2018. |
| Mustansir, Amina, KhurramShahzad, Syed IrtazaMuzaffar, and Kamran Malik. | Utilizing Customer Feedback for Business Process Performance Analysis. In International Conference on Business Informatics Research, pp. 235-249. Springer, Cham, 2018 |
| Nasar, Zara, Syed WaqarJaffry, and Muhammad Kamran Malik | Information extraction from scientific articles: a survey. Scientometrics 117, no. 3 (2018): 1931-1990 |
| Waheed Iqbal, Abdelkarim Erradi, Arif Mahmood: | Dynamic Workload Patterns Prediction for Proactive Auto-scaling of Web Applications. Accepted in Journal of Network and Computer Applications, 2018 (JCR IF = 3.99) |
| Muhammad Abdullah, Waheed Iqbal, Faisal Bukhari: | Containers vs Virtual Machines for Auto-Scaling Multi- tier Applications Under Dynamically Increasing Workloads. In <i>International Conference on Intelligent Technologies and Applications (INTAP 2018)</i> . |
| Muhammad Abdullah, Saad Ahmad Kha, Mamdouh Alenezi, Khaled Almustafa, Waheed Iqbal:) | Application Centric Virtual Machine Placements to Minimize Bandwidth Utilization in Datacenters. <i>Intelligent Automation and Soft Computing</i> , 1–14, (2018). (JCR IF =0.65 |



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| Raja W., Madani, S., Sarwar, S., | "Network Selection in Heterogeneous Access Networks Simultaneously Satisfying User Profile and QoS," <i>International Journal of Communication Systems</i> , vol. 31, no. 13, pp. 1-16, 2018. DOI: dx.doi.org/10.1002/dac.3730 |
| Goher, M., Khan, M., Ahmed, A., Islam, M. N., Sarwar, S., Koh, S. J., | "Cluster-Based Device Mobility Management in Named Data Networking for Vehicular Networks," <i>Mobile Information Systems</i> , Received 4 April 2018; Revised 12 June 2018; Accepted 24 June 2018 https://www.hindawi.com/journals/misy/aip/1710591/ |
| Ahmad, W., Sarwar, S., et. al., | "An Investigation of Video Communication over Bandwidth Limited Public Safety Network," <i>Malaysian Journal of Computer Science</i> , vol. 31, no. 2, pp 85-107, 2018. DOI: https://doi.org/10.22452/mjcs.vol31no2.1 , ISSN: 0127-9084 |
| Aslam, L., Sarwar, S., Yousaf, M. M., Jaffry, S. W., | "Cycle Discrepancy of Cubic Toeplitz Graphs," <i>Pakistan Journal of Engineering and Applied Sciences</i> , vol. 22, no. 1, pp. 14-19, 2018. ISSN: 1995-1302 |
| Yousaf, M. M., Sadiq, M. U., Aslam, L., Jaffry, S. W., Sarwar, S | ., "A Novel Parallel Algorithm for Edit Distance Computation," <i>Mehran University Research Journal of Engineering & Technology</i> , vol. 37, no. 1, pp. 223-232, 2018. p-ISSN: 0254-7821, e-ISSN: 2413-7219 |
| Ahmad, A., Yousaf, M. M., Sarwar, S., Jaffry, S. W., Aslam, L., Khalid, M., | "Optimized Scheduling for Parallel Computing Environment," <i>Sindh University Research Journal (SURJ)</i> , vol 50, no. 2, pp. 295-302, 2018. ISSN 1813-1743, DOI: 10.26692/sujo/2018.06.0050 |
| Madiha Khalid, Muhammad Murtaza Yousaf, Kashif Murtaza, Syed Mansoor Sarwar, | "Image De-fencing Using Histograms of Oriented Gradients", <i>Signal, Image and Video Processing</i> , Vol. 12(6), pp. 1173-1180, 2018. DOI: 10.1007/s11760-018-1266-0. |
| Aslam, L., Sarwar, S., Yousaf, M. M., Jaffry, S. W | <i>Computational Complexity of Cycle Discrepancy</i> , <i>Sindh University Research Journal</i> , vol. 50, no. 4, University of Sindh, Jamshoro, Pakistan, 2018, pp. 537-540. |
| Nasar, Z., Jaffry, S. W., Malik, M. K., | <i>Information Extraction from Scientific Articles: A Survey</i> , <i>Scientometrics</i> , vol. 117, no. 3, Springer International Publishing, 2018, pp. 1931-1990. Impact Factor 2.147. |



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| Ahmad, A., Yousaf, M. M., Sarwar, S. Jaffry, S. W., Aslam, L., Khalid, M., | <i>Optimized Scheduling for Parallel Computing Environment</i> , Sindh University Research Journal, vol. 50, no. 2, University of Sindh, Jamshoro, Pakistan, 2018, pp. 295-302. |
| Nasar, Z., Jaffry, S. W., | <i>Trust-based Situation Awareness: Comparative Analysis between Agent-Based and Population-Based Modeling</i> , Complexity, Hindawi. vol. 2018, Article ID 9540726, 16 pages, 2018. Impact Factor 4.621. |
| Aslam, L., Sarwar, S., Yousaf, M. M., Jaffry, S. W., | <i>Cycle Discrepancy of Cubic Toeplitz Graphs</i> , Pakistan Journal of Engineering and Applied Sciences, vol. 22, University of Engineering and Technology, Lahore, Pakistan, 2018, pp. 14-19. |
| Yousaf, M. M., Sadiq, U., Aslam, L., Jaffry, S. W., Sarwar, S | <i>A Novel Parallel Algorithm for Edit Distance Computation</i> , Mehran University Research Journal of Engineering & Technology, vol. 37, no. 1, Mehran University of Engineering & Technology, Jamshoro, Pakistan, 2018, pp. 223-232. |
| Nasar, Z., Jaffry, S. W., Malik, M. K., | <i>Tagging Assistant for Scientific Articles</i> . In proceeding of International Conference on Intelligent Technologies and Applications (INTAP'18), Bahawalpure, Pakistan, 2018, to appear. |
| Sharaft, S., Nasar, Z., Jaffry, S. W., | <i>Legal Data Mining from Civil Judgments</i> . In proceeding of International Conference on Intelligent Technologies and Applications (INTAP'18), Bahawalpure, Pakistan, 2018, to appear. |
| Nasar, Z., Jaffry, S. W., | <i>Trust-based Situation Awareness: Agent-Based versus Population-Based Modeling - A Comparative Study</i> . In proceedings of International Conference on Advancements in Computational Sciences (ICACS), Lahore, Pakistan, 2018, pp. 1-7. [BEST PAPER AWARD] |

SCHOOL OF PHYSICAL SCIENCES

○ R&D - An Overview

School of Physical Sciences has state of the art equipments in the field of physical, biochemical and molecular sciences and list of these equipments is described below:

HPLC system, Gel electrophoresis system for DNA and Proteins, PCR machine, X-Ray Diffractometer, Gas Chromatograph, UV transilluminator, Food and Beverage Analyzer,



CHNS Analyzer, Gerhardt Kjeldatherm Digestion system and Vapodest distillation titration system, Temperature controlled incubators, Keithley Semiconductor Characterization System, High speed centrifuge, Karlfisher titration analyzer, Precision Impedance Analyzer, Automatic Weather Station, UV Spectrophotometer and Rotatory Evaporator.

Above equipments are available for the researchers to carry out research in their designated fields free of charges. Standard operating procedures have been prepared to use these equipments. Currently conditions are being optimized to use these equipments for the analysis of different compounds.

○ **Projects: Completed:**

From School of Physical Sciences up till now 30 M. Phil and 12 Ph.D students of different departments have completed their research projects related to physical, biochemical and molecular sciences by using resources of School of Physical Sciences, University of the Punjab, Lahore.

○ **Newly Launched**

Currently 10 M. Phil and 04 Ph. D students of different other departments are using Laboratories of School of Physical Sciences in their research projects.

○ **Conferences, Seminars and Workshops, etc.**

School of Physical Sciences (Advance Chemistry Lab) is planning to organize workshop this year as well.

○ **Research Collaboration**

School of Physical Sciences (Advance Chemistry Lab) has developed research collaborations with scientific community of different departments, University of the Punjab.

Punjab University Gujranwala Campus

○ **R & D – An Overview**

The faculty members wrote 17 research papers during this period. They participated in 2 international conferences.

○ **Publications**

- Naveed Iqbal Chaudhry Zaid Bin Khalid Haleema Farooq. Analyzing the Interaction among Factors Hindering the Growth of SMEs: Evidence from Cutlery Sector of Pakistan, Abasyn Journal of Social Sciences, Vol. 11, Issue (1), June 2018, Page 21-36. **(Recognized “X” Category by HEC).**
- Naveed Iqbal Chaudhry. Impact of TQM on Organizational Performance: The mediating role of business innovativeness and learning capability, Journal of Quality & Technology Management, (JQTM) has been accepted for publication in Volume XIV; Issue I, June 2018, **(Recognized “X” Category by HEC).**



- Hakeem Ali Mahesar, Naveed Iqbal Chaudhry, Usman Tariq. Integrating Customer Relationship Management with Big Data Analytics in Retail Stores: A Case of Hyper-star and Metro, *Journal of Business strategies*, Volume 11, Issue 2, Dec 2017, (Recognized “Z” Category by HEC).
- Naveed Iqbal Chaudhry. Barriers to Financial Product Innovation in Islamic Banks in Pakistan: An Interpretive Structural Modelling Approach, *Journal of Islamic Accounting and Business Research*,
- Naveed Iqbal Chaudhry. Principal-principal agency conflict and information quality in China: the governance role of audit quality and analyst following, *Journal of Financial Reporting and Accounting*
- Khan, H. U. R., Siddique, M., Zaman, K., Yousaf, S. U., Shoukry, A. M., Gani, S., ... & Saleem, H. (2018). The impact of air transportation, railways transportation, and port container traffic on energy demand, customs duty, and economic growth: Evidence from a panel of low-, middle-, and high-income countries. *Journal of Air Transport Management*, 70, 18-35.
- Shah, S. H. A., Saeed, M. A., Yasir, M., Siddique, M., & Umar, A. (2018). The Impact of Transformational Leadership on Turnover Intentions Directly and Through Talent Engagement in the Banking Sector of Twin Cities of Pakistan.
- Muhammad Siddique, Saqib Mehmood, Muhammad Yasir, Kamran Ali and Muhammad Muddassar Khan. Diversification Nexus Corporate Performance and Risk Assessment: Empirical Examination for Pakistan, *Journal of Managerial Sciences*, Volume XI Number 03, HEC recognized Y category, 2018.
- Abrar Ullah, Rohaizat Bin Baharun, Khalil MD Nor, Muhammad Siddique and Mansoor Nazir Bhatti. Enterprise Resource Planning (ERP) Systems and ERP Quality Factors: A Literature Review, *Journal of Managerial Sciences* , Volume XI Number 03, HEC recognized Y category, 2018.
- Abrar Ullah, Rohaizat Bin Baharun, Khalil MD Nor, Muhammad Siddique and Abdul Sami. Enterprise Resource Planning (ERP) Systems and User Performance (UP). *Journal of Managerial Sciences*. Volume XI Number 03. HEC recognized Y category. 2018.
- Faisal Khan*, Qaiser Khan†, Muhammad Siddique Malik‡ and Muhammad Imran Qureshi. Moderating Effect of Social Support on the Relationship between Workload and Disengagement among the Academicians. *Journal of Managerial Sciences*. Volume XI Number 03. HEC recognized Y category. 2018.
- Shahid Manzoor; Ahmed Abdul Hameed; Muhammad Usman; Exploring the Links Between Ethical Leadership and Organizational Unlearning: Evidence from a European Multinational company. May 2018, *Business & Economic Review*: Vol. 10, No.1 2018, DOI: [dx.doi.org/10.22547/BER/10.1.1](https://doi.org/10.22547/BER/10.1.1).
- Manzoor, Shahid; Schnürer, A.; Bongcam-Rudloff, E.; Müller, B. Genome-Guided Analysis of *Clostridium ultunense* and Comparative Genomics Reveal Different Strategies for Acetate Oxidation and Energy Conservation in Syntrophic Acetate-Oxidising Bacteria. *Genes*, April 23, 2018, 9(4), 225; DOI: 10.3390/genes9040225.



- S. Naseer, W. Liu, N. I Sarkar, P. H. J. Chong, E. Lai, and R. Venkatesha Parsad, "A sustainable vehicular based energy efficient data dissemination approach," vol. Conference Proceedings: 27th International Telecommunication Networks and Applications Conference (ITNAC), at Melbourne, Australia, November 2017.
- S. Naseer, W. Liu, N. I Sarkar, P. H. J. Chong, E. Lai, and R. Venkatesha Parsad,....., "A sustainable marriage of telcos and transp in the Era of big data:Are we ready?". Conference Proceedings: 3rd EAI International Conference on Smart Grid and Innovative Frontiers in Telecommunications, at Auckland, New Zealand, April 23-24.
- **Conferences, Seminars and Workshops, etc.**
 - Naveed Iqbal Chaudhry. Business Angels and Investment Rejection Reasons: A Qualitative Study by Using Exploratory Sequential Mixed Method, Presented at 6th International Conference on Sustainable Business & Innovations: Challenges & Opportunities in Developing Economies held on December 21-22, 2017 at Greenwich University, Karachi, Pakistan.
 - Dr. Shahid Manzoor. 6th Workshop on Collaborative Scientific Software Development and Management of Open Source Scientific Packages, Sharif University, Tehran, Iran. April 2018 – May 2018

Punjab University Jhelum Campus

○ **R & D – An Overview**

The faculty members got their 31 research papers published in international journals. They presented their research papers in 3 international conferences.



Chapter

3

QUALITY ASSURANCE

- *Impact of Quality Assurance in the University*
- *Quality Enhancement Cell*
- *Membership of Associations/ Networks*
- *Accreditation of Programmes from Relevant Councils*

**CHAPTER**
3**Quality Assurance****Quality Enhancement Cell**

Department: Quality Enhancement Cell

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In recent years it has become an obligation that institutions of higher education demonstrate the effectiveness of their academic programs in providing high quality education that positively impacts students. Furthermore, most accrediting bodies and others concerned with quality assurance are requesting that institutions assess students learning outcomes as a means of improving academic programs. This has led the HEC to develop methods for assessing the quality of academic programs.

Assessment is a systematic process of gathering, reviewing and using important quantitative and qualitative data and information from multiple and diverse sources about educational programs, for the purpose of improving student learning, and evaluating whether academic and learning standards are being met. The process culminates when assessment results are used to improve students learning. The elements of a successful assessment program include:-

- Purpose identification
- Outcomes identification
- Measurements and evaluation design
- Data collection
- Analysis and evaluation
- Decision-making regarding actions to be taken

Functioning of Quality Enhancement Cell at University of the Punjab:

As per directions of HEC, Quality Enhancement Cell was established at University of the Punjab in 2006. QEC houses in its own building constructed at the 1st floor of ICET. The present structure of Quality Enhancement Cell at University of the Punjab is given as below:

**Structure of Quality Enhancement Cell at University of the Punjab:**

There are number of ways by which educational institutions are improving the quality of education. Self-assessment is one of them.

Self-Assessment:

Self-assessment is an important tool for quality assurance and provides feedback for the management to initiate action plans for improvement and the same has been adopted at University of the Punjab. The data is collected by using self-assessment manual for the purpose of self-assessment of a particular academic program. Quality Enhancement Cell at Punjab University is continuously striving for implementation of SAM at departmental level. The salient features of self-assessment are as under:-

- It helps in maintaining and continuous enhancement of performance.
- Enhance effectiveness of the output.
- Verify that the existing activities meet their objectives and institutional goals.
- Provide feedback for quality assurance to the management.

Self-Assessment Procedure:

Each academic program undergoes a self-assessment every year (assessment cycle). QEC is responsible for planning, coordinating and following up on the self-assessment activities. The steps of the procedure for self-assessment are as under:-

1. QEC initiates self-assessment exercise through the notification issued by the Vice Chancellor's office.
2. Department constitutes its Program team, who is responsible for preparing and generating Self-Assessment Report (SAR).



3. QEC reviews the final SAR in one month to ensure that it is prepared in line with the required format.
4. If SAR prepared by the department is declared completed in every respect by QEC; it moves to next step, otherwise, it is sent back to the department (step 2).
5. Vice Chancellor forms Assessment Team (AT) in consultation with QEC.
6. QEC plans and fixes AT visits.
7. AT conducts assessment and presents its findings to QEC.
8. QEC submits the Executive Summary along with AT findings to the Vice Chancellor, HEC & HOD of that particular department.
9. Department shall prepare and submit an implementation plan to QEC based on AT findings.
10. QEC is also responsible for follow-up of corrective measures by different departments.

Components of Self-Assessment Process

Criteria 1: Programme Mission Statements, Objectives and Outcomes

Criteria 2: Curriculum Design and Organization

Criteria 3: Laboratories and Computing Facilities

Criteria 4: Student Support and Advising

Criteria 5: Process Control

Criteria 6: Faculty

Criteria 7: Institutional Facilities

Criteria 8: Institutional Support

Impact of Quality Assurance in the University

Quality Enhancement Cells were established in universities to have a focused attention on quality assurance aspect of Higher Education and to monitor the ongoing quality move in the University. The impact of quality assurance and the changes which it has brought in the University are outlined below:-

- Created the awareness about self-assessment, its procedures and implementation at departmental level.
- Streamlined the development of curriculum for different programs.
- Development of module files of Bachelors, Masters, M.Phil and PhD. degree programs.
- Lesson plan and course material files are being maintained and distributed among students.
- Streamlined the educational processes i.e. admission, registration and guidance to students etc.
- Focused on improving and maintaining the highest Academic Standards.
- Prepare the departments for their Accreditation by Councils and other such bodies.
- Helped to improve students' learning through student feedback (high standards of oral and written communication skills), alumni & employer surveys and changes, if required, in curricula (improvements to achieve academic excellence)
- Identified the weaknesses about teaching & research through faculty survey.



- It is agreed by all the stakeholders in higher education that Self-Assessment Manual (SAM) is a great opportunity to enhance the level of education.
- The interest in Quality Assurance and SAM completion can be increased among different departments, firstly by clarifying the SAM and by increasing awareness; secondly, SAM is not a survey form but a complete course in management system. However, the implementation of quality assurance and SAM can only be effectively implemented in letter and spirit by the commitment of the Directors and Deans of all the faculties. QEC is contributing in creating awareness by providing training in cluster of program teams.

World Quality Day

World Quality Day is a trademark event of University of the Punjab which is celebrated every year. Deans of various faculties, HOD's of different departments, faculty members, students and QEC's from other national institutes in huge numbers participate in the event.

Latest Status of QEC at University of the Punjab:

Below is the latest status of performance of Quality Enhancement Cell:

- Total number of departments 73
- No. of departments whose PTs formation has been completed 71
- No. of SARs submitted 49
- No. of ATs formed 41
- No. of ATs visits to different departments 41
- No. of submission of AT reports 32
- No. of Exit meeting of AT with the Dean & PTMs 40
- No. of audits completed of different departments 40
- No. of submission of Implementation plans to VC 37
- No. of second cycle of assessment started 02

Quality Enhancement Cell is following up the implementation plans along with continuously pursuing the rest of departments to prepare their SARs. As self-assessment is a continuous process once any department completes its one cycle of assessment, it is asked to prepare the self-assessment report for the next cycle.

Achievements during the Last Year

A. Implementation Status of QA Mechanism

a) Awareness seminars/ conferences/ workshops arranged at university on quality assurance

| Sr # | Title of the event | Target Group | Purpose of the event |
|------|---|--------------------|--------------------------|
| 1 | Minutes of the Meeting with Curriculum Review Committee | Faculty of Science | To review the curriculum |



| | | | |
|---|---|---|--------------------------|
| 2 | Minutes of the Meeting with Curriculum Review Committee | Faculty of Life Science | To review the curriculum |
| 3 | Minutes of the Meeting of QS Subject Wise Ranking | University College of Pharmacy, Department of Mathematics, Department of Information Management | QS Subject Wise Ranking |
| 4 | Minutes of the Meeting for Quality Steering Committee | Focal Persons of All Faculties | QS World Ranking |

b. Self-Assessment Exercise.

Self-assessment reports of the following departments have been submitted to QEC in the reporting year:-

| S. No | Departments undertaking SA exercise | PTs formed (attach list of names) | Program Team Report completed | | | QEC Review of the Program Teams Report | | |
|-------|--|--|------------------------------------|--------------------------------------|---|--|---|-------------------------|
| | | | No. of Criteria covered (out of 8) | No. of Standards covered (out of 31) | No. & Type of Surveys completed (out of 10) | Date of submission of the report by the PT | Report is returned to PT and further submission by PT (Specify Dates) | Report finalized (Date) |
| 1 | Centre for Integrated Mountain Research (CIMR) | Prof. Dr. Safdar Ali Sherazi Engr. Dr. Mohammad Yasin | 08 | 31 | 02 | 26-04-18 | - | 26-04-18 |

b) Executive summaries and implementation plans of departments.

During the year 2017-18, assessments of the following departments were conducted:-

| Sr. No. | Departments undertaking Assessment by ATs | ATs formed (attach list of names) | Date of AT Visit | Date of submission of AT report | Date of AT exit meeting with the Dean, PT & Faculty | Date of submission of executive summary to VC by QEC | Date of submission of I.P to VC |
|---------|--|--|------------------|---------------------------------|---|--|---------------------------------|
| 1 | Centre For Integrated Mountain Research (CIMR) | Prof. Dr. Safdar Ali Sherazi Engr. Dr. Mohammad Yasin | 26-04-18 | 26-04-2018 | 26-04-2018 | 03-05-2018 | 03-05-2018 |
| 2 | Department of Political Science | Prof. Dr. Umbreen Javiad Prof. Dr. Iram Khalid Dr. Rehana Saeed Hashmi | 04-06-2018 | 04-06-2018 | 04-06-2018 | 28-06-2018 | 28-06-2018 |



B. Empowering the QEC

a. Workshops/ Trainings/ Meetings attended/ organized by QEC at national/international level for awareness.

| Sr. No. | Title of the event | Date | Purpose of the event (Participation/ Contribution) |
|---------|--|---------------------------------|--|
| 1 | Celebration of World Quality Day at University of the Punjab | 14 th November, 2017 | World Quality Day seminar was organized by Quality Enhancement Cell in collaboration with Institute of Quality & Technology Management on 14th November 2017 at University of the Punjab, Lahore. Vice Chancellor University of the Punjab Dr. Zaffar Mueen Nasar was the chief guest while Prof. Dr. Zahoor Hassan (Former Vice Chancellor, LUMS) and Mr. Kamal Mian (Director, Fast Cables) was the guest Speakers. Deans of different faculties, HOD's, Faculty members, QEC staff of other universities and large number of students were present on the occasion. |

B. QEC website has been developed and following information uploaded on <http://pu.edu.pk/home/qec/qec.html>

| S. No | List down the relevant information uploaded |
|-------|---|
| 1 | Introduction of QEC |
| 2 | Vision of QEC |
| 3 | Mission of QEC |
| 4 | Objectives of QEC |
| 5 | Vision of Punjab University |
| 6 | Mission of Punjab University |
| 7 | Goals of Punjab University |
| 8 | Job Description of PT's and AT's |
| 9 | Structure of QEC |
| 10 | Self-Assessment Manual (SAM) |
| 11 | Presentations |
| 12 | Minutes of Meeting arranged by QEC |
| 13 | Program Team Members of SAM |
| 14 | Assessment Team Members |
| 15 | Self-Assessment Reports |
| 16 | Check lists |
| 17 | Audits completed |
| 18 | Assessment Team Findings |



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| 19 | Rubric Forms |
| 20 | Implementation Plans |
| 21 | Follow Up Actions |
| 22 | Survey Forms |
| 23 | Memberships |
| 24 | News & Events |

Membership of Associations/Networks

Acquired the memberships of following international quality assurance agencies:

1. Asia Pacific Quality Network (APQN)
2. International Network for Quality Assurance Agencies in Higher Education (INQAAHE)
3. Association of Quality Assurance Agencies of the Islamic World (AQAAIW)
4. Talloires Network (Tufts University), Washington DC 20036, USA.
5. QEC Network

Faculty of Arts & Humanities

PAKISTAN STUDY CENTRE

○ **Membership of Associations/ Networks**

Pakistan Vision, the research journal of the Centre has been part of indexing and abstracting services of two international and one national abstracting organizations. These are

- International Political Science Abstracts (IPSA), Paris
- International Bibliography of Social Sciences (IBSS), London
- AsiaNet Pakistan

○ **Accreditation of Programmes from relevant councils**

The academic programmes of the Centre have been reviewed and approved by the Academic Committee, Pakistan Study Centre, Board of Faculty of Arts & and the Academic Council of Punjab University and of Board of Studies, University of the Punjab.

Faculty of Behavioral & Social Sciences

INSTITUTE OF COMMUNICATION STUDIES

○ **Membership of Associations/Networks**

Institute of Communication Studies, University of the Punjab has membership of PEMRA and Paragon Academy of Performing Arts.



Faculty of Economics & Management Sciences

DEPARTMENT OF INFORMATION MANAGEMENT

- **Membership of Association/Network:**
 - Prof. Dr. Kanwal Ameen is selected as Chair of ASS&T South Asia Chapter for the year 2018
 - Faculty members are associated with various international associations such as CILIP, ASIS&T and American Library Association (ALA) as well as national association such as Pakistan Library Association (PLA) and PUILMAA.

INSTITUTE OF BUSINESS ADMINISTRATION

- **Membership of Associations/ Networks**
IBA is a member of the Association of Management Development Institutions in South Asia (AMDISA), Hyderabad, India.

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- **Accreditation of programmes from relevant councils**
The Masters programme is in progress.

Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

- **Accreditation of programmes from relevant councils**
M.Sc. (Engg.) Energy & Environmental Engineering (Self-Supporting Evening Programme) in 2017.

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **Impact of Quality Assurance in the University**
Teacher's and course evaluations are conducted on regular basis. Teachers have started circulating course outlines and completing courses in semester. Self Assessment process is working and reports are being generated.
- **Membership of Associations/Networks**
Faculty members as well as students are encouraged to get memberships of various professional organizations like PEC, PIChe and Pakistan Engineering Congress etc.



○ **Accreditation of Programs from relevant councils**

The program of B.Sc. (Engg.) Chemical Engineering at the Institute is duly accredited by the Pakistan Engineering Council and Higher Education Commission. Moreover, to maintain the quality standards, and to upgrade of the curriculum according to Pakistan Engineering Council and Higher Education Commission's requirements boards of studies and faculty meetings are a regular feature.

○ **Impact of Quality Assurance in the University**

Teacher's and course evaluations are conducted on regular basis. Teachers have started circulating course outlines and completing courses in semester. Self Assessment process is working and reports are being generated.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

○ **Accreditation of Programmes from relevant councils**

BS (Engg) Industrial Engineering & Management program of this Institute is accredited by Pakistan Engineering Council.

Faculty of Life Sciences

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

○ **Membership of Associations/Networks**

- MMG Department is member of AT Waste management.
- Dr Anjum Nasim Sabri is convenor of biosafety Bio-resource Committee, Punjab University, Lahore.
- Prof. Dr. Sikander Sultan is member Punjab University Ranking Committee.

○ **Accreditation of Programmes from relevant councils**

- Approval of all programmes (BS, MSc, MPhil, Ms Ph.D) from relevant bodies of the PU
- Accreditation with biology in PPSC

INSTITUTE OF AGRICULTURAL SCIENCES

○ **Membership of Associations/ Networks**

- Dr. M. Saleem Haider, Professor & Director
 - Editor In-Chief for Mycopath Journal
 - Member-Editorial Board for Journal of Life Sciences, USA
 - Member-European Federation of Biotechnology
 - Fellow-The Zoological Society of Pakistan
 - Member Pakistan Phytopathological Society
 - Member Myco-Phytopathological Society of Pakistan
 - Member Bioinformatics.org



- Member-Pakistan Agricultural Research Scientists Association
- Member world *Cucurbitaceae* Scientists
- Reviewer: Journal of Microbiology and Antimicrobials
- Reviewer: Journal of Life Sciences, USA
- Reviewer: Pakistan Journal of Botany
- Reviewer: Sarhad Journal of Agriculture
- Reviewer: Pakistan Journal of Agricultural Sciences
- Reviewer: African Journal of Biotechnology
- Reviewer: African Journal of Agricultural Sciences
- Dr. Salik Nawaz Khan, Associate Professor
 - Member editorial board of 'Myconews', an official quarterly publication of First Fungal Culture Bank of Pakistan, University of The Punjab, Lahore.
 - Life member of Myco-phytopathological Society of Pakistan (MYCOPS).
 - Lifemember and vice president for Phytopathological society Pakistan
 - Life member Pakistan Botanical Society.
- Dr. Arshad Javaid, Associate Professor
 - Pakistan Botanical Society (Life Member).
 - Pakistan Phytopathological Society (Life Member)
 - Weed Science Society of Pakistan (Life Member) (Vice President Punjab)
 - Asian Allelopathy Society (Life Member)
 - Editor of Mycopath
 - Associate Editor Pakistan Journal of Phytopathology
- Dr. Amna Shoaib, Assistant Professor
 - Phytopathological Society
 - Myco-Phytopathological Society of Pakistan
- Dr. Shazia Shafique, Assistant Professor
 - Technical Editor of Mycopath, an official Journal of Myco-Phytopathological Society of Pakistan.
 - Reviewer of Journal of Plant Studies, Canadian Journal.
 - Reviewer of Mycopath, IAGS Journal.
 - Editor of Modern Biosphere International Journal, Turkey.
 - Reviewer of Pakistan Journal of Phytopathology.
 - Life member, Pakistan Phytopathological Society.
 - Member, Myco-Phytopathological Society of Pakistan.
 - Member, Weed Science Society of Pakistan
 - Life time membership of International society of Applied Life Sciences, Turkey.
- Dr. Rashid Mahmood, Assistant Professor
 - Soil Science Society of Pakistan



- Dr. Muhammad Bilal Chattha, Assistant Professor
 - Life time member the Pakistan Society of Agronomy
 - Member American Society of Agronomy
 - Member Crop Science Society of America
- Dr. Shahbaz Ahmad, Assistant Professor
 - Entomology Society of America (ESA)
 - International Organization of Biological Control (IOBC)
 - National Curriculum revision committee NCRC of Entomology (HEC)
 - Asia-Pacific Chemical, Biological & Environmental Engineering Society
 - International Society of Exposure Science (ISES)
 - International Society of Environmental and Epidemiology (ISEE)
 - Entomological Society of Pakistan (ESP)
 - Young Entomological society (YES)
 - National Academy of Young Scientist (NAYS)
 - Pakistan Scientific and Technological Information Center (PASTIC)
- Dr. Hafiz Azhar Ali Khan, Assistant Professor
 - Entomological Society of America (ESA)
- Dr. Muhammad Ali, Assistant Professor
 - Member for Eucarpia (European Association for Research on Plant Breeding) Switzerland.
 - International club, University of Agriculture, Faisalabad.
 - The Art club, University of Agriculture, Faisalabad.
 - Young Entomological Society, University of Agriculture, Faisalabad.
- Dr. Sajid Ali, Assistant Professor
 - American Society of Agronomy
 - Crop Science Society of America
 - Soil Science Society of America
 - German Society of Agronomy.
- Dr. Muhammad Shafiq, Assistant Professor
 - Myco-phytopathological Society of Pakistan (MYCOPS)
 - Member The Molecular Biology Society of Japan
 - Global outreach member American society of Microbiology
 - Member Pakistan Society for Horticultural Sciences
 - Member Board of faculty, Faculty of Agriculture BZU Multan
 - Pakistan Phytopathological Society (Member)
 - The Urban Horticulture Society Lahore Pakistan (Advisor)
- Shinawar Waseem Ali, Assistant Professor
 - Global Outreach Member, American Society of Microbiology



- Life Member, Pakistan Society of Food Scientist and Technologists (PSFST)
- Life Member, Nutritionist Association of Pakistan
- Member, Associate Editorial Board, American Journal of Current Microbiology
- Member, Global Harmonization Initiative (GHI)
- Volunteer Member, Institute of Research Promotion (IRP) Pakistan
- Member, ISEKI-Food Association (IFA), European Union
- Dr. Zahida Qadeer, Assistant Professor
 - Member of Food science and Technology
 - Member of camel association
- Mr. Nadeem Shad
 - Member- Board of faculty of life sciences, University of the Punjab, Lahore
 - Life Member Paksiatan Phytopathological Society
 - Life member Pakisatn Nematological Society
 - Member Myco-Phytopathological Society of Pakistan

INSTITUTE OF APPLIED PSYCHOLOGY

○ **Membership of Associations/ Networks**

| Sr. No. | Name of Association/ Networks/Committee | Name of Faculty Member |
|---------|---|---------------------------|
| 1 | Fellowship of International Medical Sciences Academy (IMSA) | Prof. Dr. Farah Malik |
| 2 | Regional Representative for South Asia, Society for Interpersonal Acceptance-Rejection, USA. | Prof. Dr. Farah Malik |
| 3 | Associate Editor, Journal of Behavioral Sciences, IAP, PU, Lahore. | Prof. Dr. Farah Malik |
| 4 | Member, Government of the Punjab, Higher Education Department Committee to Short List the applicants as per criteria for the appointment of Chairmen, Board of Intermediate & Secondary Education (BISEs) in Punjab (Notification No.SO(BOARDS)1-10/2016-P dated 18 th August, 2017. | Prof. Dr. Rukhsana Kausar |
| 5 | Member, Review Committee of M.Phil/MS & Ph.D Programs, Quality Assurance Agency, Higher Education Commission, Pakistan (August, 2017). | Prof. Dr. Rukhsana Kausar |
| 6 | Member, British Psychological Society, UK (BPS). | Prof. Dr. Rukhsana Kausar |
| 7 | International Affiliate, American Psychological Association (APA). | Prof. Dr. Rukhsana Kausar |
| 8 | Full Member, European Health Psychology Society (EHPS). | Prof. Dr. Rukhsana Kausar |



| | | |
|----|--|---------------------------|
| 9 | Member International Council of Psychologists (ICP). | Prof. Dr. Rukhsana Kausar |
| 10 | Member, International Association of Applied Psychology (IAAP). | Prof. Dr. Rukhsana Kausar |
| 11 | Member, Asian Psychological Association (APsyA). | Prof. Dr. Rukhsana Kausar |
| 12 | Life Member, Pakistan Psychological Association (PPA). | Prof. Dr. Rukhsana Kausar |
| 13 | Member, International Society of Interpersonal Acceptance and Rejection. | Prof. Dr. Rukhsana Kausar |
| 14 | Member, Research Advisory Committee of National Institute of Psychology, Centre of Excellences, Quaid-e-Azan University, Islamabad, Pakistan. | Prof. Dr. Rukhsana Kausar |
| 15 | Member, Committee for Development of Social Sciences, Arts and Humanities, Higher Education Commission, Pakistan. | Prof. Dr. Rukhsana Kausar |
| 16 | Chairperson, Psychology Subcommittee, Committee for Development of Social Sciences, Arts and Humanities, Higher Education Commission, Pakistan. | Prof. Dr. Rukhsana Kausar |
| 17 | Chief Editor, Journal of Behavioural Sciences, Official Publication of Department of Applied Psychology, University of the Punjab, Lahore (2003-2005; 2007 onwards). | Prof. Dr. Rukhsana Kausar |
| 18 | Chief Editor, "Psychological Abstracts", Institute of Applied Psychology. | Prof. Dr. Rukhsana Kausar |
| 19 | Member, Editorial Board, Journal of Social and Clinical Psychology. | Prof. Dr. Rukhsana Kausar |
| 20 | Member, Editorial Board, Pakistan Journal of Professional Psychology. | Prof. Dr. Rukhsana Kausar |
| 21 | Consulting Editor, Science Journal of Business Management, ISSN" 2276-6316, http://www.sjpub.org/sjbm.html | Prof. Dr. Rukhsana Kausar |
| 22 | Consulting Editor, Pakistan Journal of Psychological Research, NIP, Quaid-i-Azam University, Islamabad. | Prof. Dr. Rukhsana Kausar |
| 23 | Consulting Editor, Indian Journal of Psychology and Mental Health. | Prof. Dr. Rukhsana Kausar |
| 24 | Consulting Editor, Journal of Gender and Social Issues, Fatima Jinnah Women University, Rawalpindi. | Prof. Dr. Rukhsana Kausar |
| 25 | Consulting Editor, Frontier Women University, Journal of Social Sciences. | Prof. Dr. Rukhsana Kausar |
| 26 | Consulting Editor, Journal of Indian Academy of Applied Psychology. | Prof. Dr. Rukhsana Kausar |



| | | |
|----|--|--------------------|
| 27 | Vice President, Society for Advancement of Muslim Psychology, Pakistan | Dr. Naumana Amjad |
| 28 | Senior Vice President, Alumni Association of Ravian Psychologists | Dr. Naumana Amjad |
| 29 | Member, International Society for Research on Aggression | Dr. Naumana Amjad |
| 30 | Member, Pakistan Psychological Association | Dr. Naumana Amjad |
| 31 | Member, American Psychological Association , America | Dr. Rafia Rafique |
| 32 | Member, Canadian Psychological Association, Canada. | Dr. Rafia Rafique |
| 33 | Member, Pakistan Psychological Association. | Dr. Rafia Rafique |
| 34 | Member, Pakistan Psychological Association. | Dr. Iram Fatima |
| 35 | Consulting Editor, Pakistan Journal of Professional Psychology, research and practice published by Centre of Clinical Psychology, University of the Punjab | Dr. Iram Fatima |
| 36 | Consulting Editor International Journal of Culture and Mental Health | Dr. Iram Fatima |
| 37 | Associate Editor Journal of Behavioral Sciences published by Institute of Applied Psychology, University of the Punjab | Dr. Iram Fatima |
| 38 | Member, Pakistan Psychological Association | Dr. Fatima Kamran |
| 39 | Member / Consulting Editor, Pakistan Journal of Professional Psychology Research and Practice | Dr. Fatima Kamran |
| 40 | Consulting Editor, International Journal of Culture and Mental Health | Dr. Fatima Kamran |
| 41 | Associate Editor, Journal of Behavioral Science | Dr. Fatima Kamran |
| 42 | Member, British Psychological Society (BPS) | Dr. Fatima Kamran |
| 43 | Member, Pakistan Association of Clinical Psychologists | Dr. Fatima Kamran |
| 44 | Member, Society for Rehabilitation of Disabled Children, Jail Road Lahore | Dr. Afsheen Masood |
| 45 | Member, Pakistan Psychological Association | Dr. Afsheen Masood |
| 46 | Member, Pakistan Psychological Association. | Ms Afifa Anjum |
| 47 | Member, Lahore HR Forum | Ms Tahira Mubashar |
| 48 | Member of FOCUS GROUP at Packages Pvt. Limited | Ms Tahira Mubashar |
| 49 | Member, National Outreach Program NOP being run by LCCI | Ms Tahira Mubashar |
| 50 | Member, Pakistan Psychological Association | Ms Mujeeba Ashraf |
| 51 | Member, Pakistan Clinical Psychologist Association (PACP) | Ms Mujeeba Ashraf |
| 52 | Member, Fatimid Foundation, Lahore | Ms Shahnaila Tariq |



| | | |
|----|--|-------------------|
| 53 | Member, Drug Free Pakistan Foundation, Karachi | Ms Shahnila Tariq |
| 54 | Member, Pink Ribbon Campaign, Lahore | Ms Shahnila Tariq |
| 55 | Member, Pakistan Psychological Association | Ms Shahnila Tariq |

○ **Accreditation of Programs from relevant councils**

All Academic Programs and Courses of the Institute of Applied Psychology are accredited from the Statutory Bodies of University of the Punjab and the Higher Education Commission of Pakistan.

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **Membership of Associations /Networks**

- American Society for Cell Biology
- International Society for Animal Genetics, USA
- Khwarizmi Science Society, Pakistan
- Pakistan Fisheries Society
- Pakistan Society for the Biochemistry and Molecular Biology.
- Pakistan Entomological Society
- Pakistan Zoological Society

○ **Accreditation of Programmes from relevant councils**

Programs and courses are accredited by statutory bodies of the University of the Punjab, Lahore.

Faculty of Sciences

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

○ **Membership of Associations/ Networks**

- Member, Board of Directors, Tourism Development Corporation of Pakistan.
- Focal Person, on the “Promoting Acceptance and Peace Building” campaign at the University of the Punjab, Lahore in collaboration with the Centre for Health and Gender Equality (CHANGE). Member, Expert Committee in Climate Change, Drought Hazard Assessment, GIS & Remote Sensing, Training Modules Development & Facilitation Specialist of the Provincial Disaster management Authority, Government of the Punjab, Lahore
- Member, Pakistan Association for the Advancement of Science, Lahore, Pakistan.
- Member, Technical Working Group to Deliberate on Incinerator Vs Auto-Cave and Recommend appropriate Technology for Safe Hospital Waste Disposal Facility in Public Sector Hospitals of Punjab, City District Government, Lahore
- Member of the Standing Committee on Environmental Affairs of the Federation of Pakistan Chambers of Commerce & Industry.



- Member, Provincial Climate Change Policy Implementation Committee (PCCPIC) of the Environment Protection Department (EPD), Government of the Punjab, Lahore.
- Member, Committee to Ascertain the Reasons of Dense Fog / Smog during the Winters in Lahore, constituted by the Chief Minister's Office, Government of the Punjab, Lahore
- Member, Stratigraphic Committee of Pakistan,
- Member: National Geological Society, Pakistan, Punjab Geological Society, Pakistan
- Dr. Nadia Jamil: Life time Member of Chemical Society of Pakistan and Member of Environmentalist Association

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Membership of Associations / Networks**
 - Faculty Members of College of Statistical and Actuarial Sciences, University of the Punjab, Lahore are members of 'Pakistan Statistical Association'
 - Prof. Dr. Shahid Kamal, Principal & Dean, Faculty of Sciences is the member, American Statistical Association, USA
 - Mr. Muhammad Ahmad, Member, ISOSS-Islamic Countries Society of Statistical Sciences
 - Mr. Ghulam Nabi, Lecturer is the member, Institute of Actuaries, U.K.
 - Mr. Ghulam Nabi, Lecturer is the member, Pakistan Society of Actuaries, Pakistan
 - Mr. Ghulam Nabi, Lecturer is the member, Society of Actuaries, India
- **Accreditation of Programmes from relevant councils**
All academic programs offered by College of Statistical and Actuarial Sciences, University of the Punjab, Lahore are duly accredited from the relevant bodies of Punjab University.

DEPARTMENT OF GEOGRAPHY

- **Membership of Associations/ Networks:**
 - Pakistan Geographical Association
 - International Geographical Union.

DEPARTMENT OF PHYSICS

- **Membership of Associations/ Networks**
Pakistan Institute of Physics (PIP).
Al Khawarzami Science Society, Pakistan.
- **Accreditation of Programmes from relevant councils**
All academic programs offered by the Department of Physics, University of the Punjab, Lahore, are duly accredited from the relevant bodies of Punjab University.

DEPARTMENT OF SPACE SCIENCE

- **Accreditation of Programmes from relevant councils**
All academic programs offered by Department of Space Science, University of the Punjab, Lahore are duly accredited from the relevant bodies of Punjab University.



Chapter

4

FACULTY DEVELOPMENT

- *Faculty Development Programmes (MS/ PhD Local + Foreign)*
- *Returned Scholars*
- *Present Scholars*
- *Pre-service and in-service Professional Development Programmes*
- *Achievements of Foreign Faculty*

**CHAPTER****4****Faculty Development****Faculty of Arts & Humanities****DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE**

- **Returned Scholars**
 - Ms. Amna Umer Cheema, Ph.D in English at University of Leeds, UK
 - Ms. Shamaila Dodhy Ph.D in English at the University Putra Malaysia, Malaysia
- **Pre-Service and In-Service Professional Development Programmes**
 - Postgraduate Diploma in English Language Teaching (PGD-ELT)
 - Diploma in Linguistics
 - Spoken English Certificate Course

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

- **Faculty Development programs (MS/Ph. D Local + Foreign)**

Two faculty members completed their Ph.D.

| S.No. | Name | University | Status | Foreign/Local |
|-------|-------------------------|-------------------|-----------|---------------|
| 1 | Ghazi Muhammad Abdullah | Punjab University | Doing | Local |
| 2 | Maqbool Ahmad Awan | Punjab University | Completed | Local |
| 3 | Mr. Abrar Ahmad | Punjab University | Completed | Local |
| 4 | Miss Anum Iftikhar | Punjab University | Doing | Local |

- **Present Scholars**
100 scholars of M.Phil. & Ph.D.
- **Achievements of Foreign Faculty**
Eminent scholars are invited to the department and to deliver lectures on significant topics of history and research on South Asia.

PAKISTAN STUDY CENTRE

- **Achievements of Foreign faculty**
Eminent scholars and academicians are invited to visit the Centre and deliver lectures on significant issues relating to Pakistan on regular basis.



DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

○ **Faculty development programmes (M.S/ Ph.D local + foreign)**

As Resource person, Dr Saleha Nazeer conducted various Teachers' Training sessions for freshly inducted teachers at the Department to groom them about professional ethics, course outlines and learning outcomes, evaluation and assessment procedures, effective teaching strategies, etc.

○ **Pre-service and in-service professional development programmes**

- Dr Saleha Nazeer conducted a series of training sessions for professional development trainees under PMYTS on:
 - Time Management at Work place
 - Professional Ethics
 - Preparation of Efficiency Log
 - Fixing Objectives
 - How to be more productive and creative?
- Dr Saleha Nazeer, Ms Saira Riaz and Ms. Sabrina A. Rassool attended seminar on Quality Assurance organized by Quality Enhancement Cell at PU.
- Ms Saira Riaz and Ms Sabrina A. Rassool attended a workshop on "Peace in Educational Institutions".
- Ms Sabrina A. Rassool participated in a workshop on "Humanity, Altruism & Citizenship" organized by Environmental Sciences.
- Dr Saleha Nazeer participated as focal person in Capacity Building Workshop of Departmental Review Committee at QEC.
- Ms Saira Riaz attended a training session on "Research Methodologies" organized by ORIC.

Faculty of Behavioral & Social Sciences

DEPARTMENT OF POLITICAL SCIENCE

○ **Returned Scholars**

Dr. Dayyab Gillani (Assistant Professor)

○ **Present Scholars**

Shabbir Ahmad Khan (Assistant Professor)

DEPARTMENT OF SOCIAL WORK

○ **Present Scholars**

- The following faculty members are enrolled in Ph.D. Programme at Department of Social Work, University of Peshawar.

| Sr. No | Name and Designation | Remarks |
|--------|--|----------------------|
| 1. | Ms. Bushra Naheed, Assistant Professor | Writing Ph.D. Thesis |
| 2. | Ms. Aliya Khalid, Assistant Professor | Writing Ph.D. Thesis |



- The following faculty members are enrolled in Ph.D. Programme at Department of Social Work, University of the Punjab, Lahore.

| Sr. No | Name and Designation | Remarks |
|--------|--|----------------------|
| 1. | Ms. Sonia Omer, Assistant Professor | Writing Ph.D. Thesis |
| 2. | Mr. Muhammad Arshad, Assistant Professor | Writing Ph.D. Thesis |

- The following faculty member is enrolled in Ph.D. Programme in foreign country.

| Sr. No | Name and Designation | Country |
|--------|----------------------------|-----------|
| 1. | Ms. Anika Farwar, Lecturer | Australia |

INSTITUTE OF SOCIAL & CULTURAL STUDIES

○ **Present Scholars**

In the current period 40 students were enrolled in local M.Phil program, while 15 scholars were working on their PhD dissertations.

Faculty of Commerce

HAILEY COLLEGE OF BANKING & FINANCE

○ **Faculty Development Programs (MS / Ph.D Local + Foreign)**

- Ph.D. Faculty Members = 2
- M.Phil Faculty Members = 12
- Our Eight Faculty Members are also enrolled in Ph.D programs at different

HAILEY COLLEGE OF COMMERCE

○ **Faculty Development Programme**

07 our faculty members are enrolled Ph.D programs at different Foreign and local universities

Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

○ **Faculty Development programs (MS/ PhD local + foreign)**

- The Department of Economics has offered no faculty development programs during October 17 to September 18.

○ **Present Scholars**

- The details of present scholars are given in table. It is also relevant to mention that in March 2018 Ms. Asma Awan and Mr. Hafiz Ghulam Mujaddad also joined Department of Economics as Lecturer. Both faculty members are also Ph.D. Scholar in the same institution.



| Name | Designation | Details |
|-----------------------------|-------------|--|
| Fareena Noor Malhi | Lecturer | She is recipient of Fulbright scholarship for Ph.D. studies at U.S.A and currently she is on leave (Ex-Pakistan). |
| Maria Faiq Javaid | Lecturer | She is Ph.D. scholar at Department of Economics, PU and have successfully submitted Ph.D. dissertation in September, 2017. |
| Ambreen Sarwar ¹ | Lecturer | She is Ph.D. scholar at Department of Economics, PU and currently working on Ph.D. research proposal. |

- **Pre-service and in-service professional development programs**
 - Lectures on Applied Econometrics by renowned scholars

INSTITUTE OF ADMINISTRATIVE SCIENCES

○ **Faculty Development**

HEC awarded two scholarships to our faculty members for their doctoral program out of whom both of the faculty members have completed their PhDs. Two scholarships have been granted to our faculty members by the University of the Punjab for earning doctorate from highly reputed foreign universities while one of our faculty members received full term scholarship from Monash University, Australia to pursue her PhD. Last year, four of the faculty members completed their course work of in-house PhD program while four of the faculty members completed their course work of in-house M. Phil. program at the Institute of Administrative Sciences. In the year 2016, one of the faculty members and one of the research scholars got admission in-house/local PhD program. Two of our faculty members have been awarded PhD scholarships by foreign universities and are on study leave. Faculty members actively participate in academic conferences, symposia, seminars and workshops to keep themselves abreast of the most recent knowledge and trends in their areas of research. Faculty of IAS also took part in faculty development efforts of other institutions in Punjab University and universities across the country as part of IAS social responsibility initiative.

Creating Awareness and Enhancing Leadership Skills

Institute of Administrative Sciences is playing a very important role in developing the leaders for the future. Not only it focuses on the academic development of the students, but also provides students with the opportunities that can enhance their Leadership Skills and increase their awareness in other aspects of life. In this regard, the institute arranges

¹ She was working as lecturer (on contract) in Department of Economics before her selection as regular faculty member/lecturer in March 2018.



numerous seminars and conferences for the students. Some of the important events arranged for this purpose in the year are as follows.

- **Institute of Administrative Sciences - University of the Punjab Representation at Association of Commonwealth Universities December 2017 Newsletter**

A member profile of Prof. Dr. Nasira Jabeen – Dean Faculty of Economics and Management Sciences (FEMS) & Director Institute of Administrative Sciences (IAS), has been featured in December 2017 issue of Association of Commonwealth Universities (ACU) HR in Higher Education Community Newsletter. Prof. Jabeen is the member of ACU since 2016 and has also represented at ACU conferences in previous years. Her member Profile is available online at the following link:

https://www.acu.ac.uk/about-us/blog/member-profile-dr-nasira-jabeen-university-the-punjab-pakistan?utm_source=Communicator&utm_medium=Email&utm_content=Untitled26&utm_campaign=6331744

- **Seminar On: Cancer Prevention through Healthy Lifestyle**

A Seminar on 'Cancer Prevention through Healthy Lifestyle' was conducted at IAS PU on 16th November 2017 by students of BS 4th semester. Prof. Dr. Shaharyar, a renowned oncologist Prof. Areesha Zaman - Chief Medical Physicist at INMOL, Dr. Hammad from Cancer Care hospital and Mrs. Sajida Nisar-Incharge Director Institute of Business Administration (IBA) PU, joined as panelists and guest speakers. Prof Shaharyar explained to the audience the development of cancer cells in human body and its destructive effects if not treated in early stage. He shared about the healthy lifestyle that individuals should adopt i.e. to take balanced diet and being physically active in one's daily routine. Myths about cancer development through use of various materials were also talked upon. Students took keen interest in the talk and asked many relevant questions from the team of doctors.

- **Winter Fest 2017**

Students of IAS have once again proven their talent, potential and unmatched entrepreneurial skills at the Winter Fest 2017 held on 22nd November 2017. The festival was organized with great hard work and dedication by the graduating students of Marketing of BS Program. The event was arranged as a part of a project of Social Media Marketing course taught by Mr. Asad Awan – a visiting faculty member IAS. Students were required to take up real time projects of goods/services that they can advertise on social media to gain profits and to exercise their marketing skills. For that matter, the students not only approached the already established businesses and took up their social media marketing campaigns but they also developed their own ideas and worked upon them from the scratch. The event included around 50 stalls including the eateries, accessories like shoes, jewelry, garments, bakery products, herbal beauty products, home-made spices, gaming booth and lot more attractions.



▪ **A talk on Gender Based Violence and Human rights:**

An informative and sensitizing panel discussion was organized at Institute of Administrative Sciences in collaboration with Global Youth Clan. The agenda under discussion was gender based violence against women and was conducted in connection with the international day for the elimination of violence against women i.e. 25th November and Human Rights Day i.e. on 10th December. It is a 16 days of activism campaign to emphasize links between ending gender based violence and human rights. Panelists included Mr. Bilal Ahmad - director operations FAIDA Foundation, Mr. Raheel Sharoon - Head peace building department at Diocese of Raiwind, Church of Pakistan, Ms. Laraib Abid – a social activist, Ms. Fajar Ajmal – a social activist and declared as one of the top thirteen geniuses of Pakistan. Panel was moderated by Ms. Khadija Siddiqui – a victim and survivor of violent attack. Ms. Laraib Abid briefed in her talk about gender and how it is perceived by generic society as a biological aspect.

INSTITUTE OF BUSINESS ADMINISTRATION

○ **Returned Scholars**

Dr. Zeshan Ahmer, Lecturer-IBA has successfully completed his Ph.D in Marketing from University of Hertfordshire, Hatfield, UK on 26-01-2018 and resumed his duties as Assistant Professor (on adhoc) on 26-01-2018.

○ **Present Scholars**

- Ms. Labiba Sheikh, Assistant Professor is pursuing her Ph.D from Institute of Administrative Sciences, University of the Punjab, Lahore.
- Mr. Waseem Subhani, Assistant Professor is pursuing his Ph.D from University of Central Punjab, Lahore.
- Ms. Naseem Bukhari, Assistant Professor is pursuing her Ph.D from International Centre for Education in Islamic Finance (INCEIF), Malaysia.
- Ms. Wajiha Kazim, Lecturer is pursuing her Ph.D from University of Nottingham, UK.
- Ms. Qudsia Naseer, Lecturer is pursuing her Ph.D from University of Malaya, Kuala Lumpur, Malaysia.
- Mr. Muddassir Latif Rawn, Assistant Professor is pursuing his Ph.D from Superior University, Lahore.
- Ms. Masooma Iftikhar, Lecturer is pursuing her Ph.D from Australian National University, Australia.
- Mr. Yasir Ashraf, Lecturer is pursuing his Ph.D from COMSATS University, Islamabad, Lahore Campus, Lahore.

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

- There are 15 regular full time faculty members working in IBIT (Seven Assistant Professors and Eight Lecturers).



Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- One of the faculty members Dr. Samina Ashraf won Indigenous Post Doctoral Fellowship for the by PHEC.

INSTITUTE OF EDUCATION & RESEARCH

- **Faculty development programmes** (MS/ PhD local + foreign)
Dr. Ummara Saher, Assistant Professor, IER completed her Ph.D in Education from Institute of education and Research, University of the Punjab, Lahore
- **Pre-Service and in- Service Professional Development Programmes**
Post-Doctoral Fellowship Completed and Ongoing
 - Completion of Post Doc under Foreign Post Doc Fellowship Programme of Punjab Higher Education Commission (PHEC)
 - Dr. Abida Nasreen, Assistant Professor, IER has completed her Post Doc fellowship at University of Sydney, Australia and joined her duties at IER on 01-09-2018.
 - Award of Post-Doctoral Fellowship to Dr. Muhammad Aamir Hashmi, Assistant Professor (on Adhoc basis), IER by PHEC.
 - Dr. Muhammad Aamir Hashmi Assistant Professor IER has been awarded Foreign Post Doc Fellowship from Punjab Higher Education Commission at the University College London, UK. He proceeded on 07-05-2018 to avail this opportunity of Post Doc fellowship.

Faculty of Engineering & Technology

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

- **Returned Scholars**
Though department has been established in 2004 and started working properly in 2005 but there are no non Ph.D faculty members recruited. Due to this reason no any faculty member has been sent abroad for Faculty Development Programme (FDP) and that is why there is no returned scholars in the department.
- **Present Scholars**
No permanent programme has been launched for professional development however department always encouraged if there are some courses launched at any level our faculty should attend. However, during the past years, faculty has attended different in service professional development programs which are arranged by HEC and PU collectively.



INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **Present Scholars**

Four faculty members are enrolled in PhD studies at different universities in foreign universities, out of which one is getting Faculty development scholarship awarded by Punjab University and other two got their PhD grants from Higher Education Commission and foreign universities.

- **Pre-service and in-service professional development program**

The fresh appointee faculty members are nominated to attend a one-month faculty development program conducted by the University of the Punjab. This year, almost all the faculty members attended "Indigenous On-Campus Training Program for Management Team" which was organized by University of the Punjab, Lahore in collaboration with Higher Education Commission, Islamabad.

DEPARTMENT OF ELECTRICAL ENGINEERING

- **Faculty Development**

One faculty member of this Institute is working for her PhD degree in reputed, Malaysian University.

- **Present Scholars**

04 faculty members of this Institute are working for their PhD degrees.

Faculty of Islamic Studies

SHEIKH ZAYED ISLAMIC CENTRE

- **Present Scholars**

| | |
|------------------------------|----------------------|
| ▪ Dr. Muhammad Ijaz | Professor / Director |
| ▪ Dr. Muhammad Abdullah | Professor |
| ▪ Dr. Hafiz Abdullah | Professor |
| ▪ Dr. Haris Mubeen | Professor |
| ▪ Dr. Ishtiaq Ahmad Gondal | Associate Professor |
| ▪ Dr. Hafiz M. Abdul Qayyum | Associate Professor |
| ▪ Dr. Hafiz Abdul Basit Khan | Assistant Professor |
| ▪ Dr. Samina Saadia | Assistant Professor |

Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

- **Faculty Development programmes (MS/Ph.D local + foreign):** Yes
- **Present Scholars (local Ph.D.):** 06



Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

- **Faculty development programmes** (MS/PhD local + foreign)
 - Four Assistant Professors are registered for Ph.Ds.
 - 2 faculty members are doing their Ph.D. at the Centre for Clinical Psychology and 2 faculty members are doing their Ph.D. at Department of Applied Psychology, University of the Punjab, Lahore.

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Faculty Development Programs** (MS/ PhD Local + Foreign):
Faculty of the Centre is encouraged for higher studies. At present seventeen faculty members are enrolled in Ph.D and two in M.Phil. Faculty members attended the regular courses at the Centre. After completion of course work they are assigned a research program in their relevant field.

- **Returned Scholars**

Five faculty members completed their M. Phil/Ph.D and joined their duties.

| Sr. No | Name |
|--------|-------------------|
| 1 | Mr. Munim Farooq |
| 2 | Ms. Zahida Qamar |
| 3 | Ms. Naila Shahid |
| 4 | Ms. Fatima Batool |

- **Present Scholars:**

Presently total seventeen faculty members are enrolled in Ph.D and two are enrolled in M.Phil.

Ph.D Faculty Members:

| Sr. # | Ph. D. |
|-------|----------------------------|
| 1 | Ms. Aneela Yasmin |
| 2 | Mr. Muhammad Tariq |
| 3 | Ms. Maira Tayyab Baig |
| 4 | Ms Saira Azam |
| 5 | Ms. Ayesha Latief |
| 6 | Mr. M. Shahid |
| 7 | Ms. Saba Tasneem |
| 8 | Ms. Abida Shezadi |
| 9 | Mr. Tahir Rehman Samiullah |
| 10 | Ms. Samra Kausar |
| 11 | Ms. Farah Naz |
| 12 | Mr. Muhammad Islam Khan |
| 13 | Mr. Saad Tahir |



M. Phil Faculty Members:

| Sr. # | M. Phil |
|-------|------------------------------|
| 1 | Faheem Akram |
| 2 | Syed Muhammad Nauman Jillani |

○ **Pre-Service and in-Service Professional Development Programmes:**

Faculty members are encouraged to attend different training courses / workshops symposia at national and international level. Detail is given below:

- IRSIP HEC six months training program awarded to Zahida Qamar at Department of Cell and Systems Biology, University of Toronto, Canada.
- IRSIP HEC six months training program awarded to Ms Fatima Batool at Faculty of Life Science University of Manchester, UK.
- Dr Bushra Rashid was Focal Person in 2nd International Symposium on Advances of molecular biology in plant and health Sciences 21-23 Nov 2017, held at CEMB, Lahore
- Workshop on Chromatographic Techniques on 30-31 Oct. 2017 at Quality operation Lab., UVAS, Lahore.
- Prof. Dr. Kausar Malik Certificate of participation received and poster presentation in International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
- Prof. Dr. Kausar Malik Invited guest in opening ceremony of 7th international conference on biotechnology and bioengineering in virtual university on Oct 26-27-2017
- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics`` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.
- Prof. Dr. Kausar Malik Attended, paper presented & Chair the session of 3rd International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in University of South Asia & received shield on 24-2-17, 25-2-17
- Prof. Dr. Kausar Malik Attended and paper presented in the 37th Pakistan Congress of Zoology, as paper presenter held in GCU, Faisalabad, on 28-2-2017 to 2-3-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics`` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.



- Prof. Dr. Kausar Malik Attended ``Invention to Innovation Summit ``as invited guest Ex-Director ORIC organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore -3-2017, -3-2017.
- Prof. Dr. Kausar Malik Certificate of participation received and poster presentation in International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
- Prof. Dr. Kausar Malik Invited guest in opening ceremony of ``7th international conference on biotechnology and bioengineering`` in virtual university on Dec 26-27, 2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
- Prof. Dr. Kausar Malik Invited keynote speaker ``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` in `International conference on Solid State Physics`` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10,14-12-2017.
- Dr. Bushra Tabassum has received certificate of participation for Training on 'Behavioral Based Biosafety Culture', 23 August, 2017 held at CEMB by Gulls Foundation in collaboration with American Society for Microbiology and Health Security partners, Pakistan.
- Dr. Bushra Tabassum has received Certificate for oral presentation on 'A three day workshop on 'Advances in Agricultural Biotechnology & Regulatory Affairs', September 25-27, 2017. FCC Lahore-Pakistan.
- Prof. Dr. Ahmad Ali Shahid attended International Conference on "Bioethics in Molecular Biology and Biotechnology", July 5-6, 2017, Institute of Biochemistry and Biotechnology, University of Veterinary and animal Sciences, Lahore.
- Dr. Bushra Ijaz invited as guest speaker and delivered a talk on Cancer Genomics for biomarker Identification at conference on potential Cures of cancer at University of the Lahore
- Prof. Dr. Tayyab Husnain attended OIC Cotton Training Program (OIC-CTP) on "Development of Sustainable Transgenic Technology, Commercialization and Post-Release Monitoring" held from 8-10 May, 2018 in Ankara-Republic of Turkey.
- Prof. Dr. Tayyab Husnain attended The International Cotton Genome Initiative (ICGI) Biennial Research Conference to be held from May 28 to June 01, 2018 in Edinburgh, Scotland, United Kingdom.
- Prof. Dr. Tayyab Husnain attend ed7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March, 2018)
- Prof. Dr. Tayyab Husnain attended one day meeting of the Departmental Tenure Track Review Committee (DTRC) In the Institute of Agricultural Sciences, University of the Punjab, Lahore. (February 22nd, 2018).
- Dr. Bushra Rashid (2018). Learning Excitements beyond the boundaries". Invited speaker at 6th International Conference on Education (ICE), "Science Beyond Class Room" held at University of education, Lahore



- Dr. Bushra Rashid (2018). DNA Microarray in the study of molecular diagnosis Invited speaker at “International Training Course on Poultry Viral Diagnostics” held at University of Veterinary and Animal Sciences, Lahore.
- Prof. Dr. Idress Ahmad Nasir attend ed7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March 2018)
- Dr. Noreen Latief attended dual use research of concerns (durc) workshop held at CEMB (16-18 July 2018)
- Dr. Noreen Latief participated in risk assessment of genetically modified crops held at CEMB (20 July 2018)
- Dr. Bushra Ijaz attended dual use research of concerns (durc) workshop held at CEMB (16-18 July 2018)
- Dr. Bushra Ijaz participated in risk assessment of genetically modified crops held at CEMB (20 July 2018)
- Dr. Noreen Latief attended 7th Invention to Innovation Summit held at University of the Punjab, Lahore (7-8 March 2018).

DEPARTMENT OF BOTANY

- **Faculty development programmes** (MS/ PhD local + foreign)
A faculty member Dr. Asma Zulfiqar has returned and joined the department in (2017) after completion of her Post Doctorate research through a grant from PHEC.
- **Present Scholars**

| Sr. No | Name of Scholar | Duration | Place |
|--------|------------------|--|---|
| 1. | Afshan Wahab | 16 June 2017 to 12 Dec 2017 | Harvard university, Cambridge, MA, USA |
| 2. | Hira Bashir | 7th Sep 2017 to 3rd March 2018 | INRA, MYCSA, Bordeaux, France |
| 3. | Munazza Kiran | 16 September 2017 to 12 March 2018 | Harvard University, Cambridge, MA, USA. |
| 4. | Tayyaba Qasim | 16 September 2017 to 12 March 2018 | Harvard University, Cambridge, MA, USA. |
| 5. | Memoona Khan | 18 September 2017 to 13 March 2018 | Field Museum of Natural History Chicago (University of Chicago) |
| 6. | Ms. Qurat ul Ain | 29 th January to 25 th July 2017 | Prof. Dr. C. Capareda, Texas A & M University, Texas, USA |

- **Present Scholars**
 - 170 Scholars are enrolled in MS/M.Phil program in the said period
 - 51 Scholars are enrolled in Ph.D Regular and Old Scheme program



DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **Faculty development programmes** (MS/PhD local+foreign)
 - Dr. Nousheen Zaidi was awarded Georg Forster Research Fellowship for Experienced Researchers by the Humboldt Foundation, March 2017- 19 (for 12 months divided up into three research stays)
 - Mr. Muhammad Zeeshan Akbar is doing Ph.D Computer Science from School of Computer, South China Normal University, Guangzhou, China on Fully Funded Chinese Government Scholarship (2017-2020).
- **Returned Scholars**
 - Ms. Samman Ikram completed HEC's 6 months IRSIP fellowship to complete a part of her PhD research at the Centre for Integrative Microbial Evolution (CIME) and Laboratory for Microbial Dynamics (LaMDa), Department of Pharmaceutical Biosciences (Microbiology), School of Pharmacy, University of Oslo, PO Box 1068 Blindern, 0316 Oslo, NORWAY
 - Ms. Iqra Munir completed HEC's 6 months IRSIP fellowship to complete a part of her PhD research from, Universite de Montreal, Canada.
 - Mr. Mohsin Tasawar Cheema completed HEC's 6 months IRSIP fellowship to complete a part of his PhD research at the Center for Pharmaceutical Research and Innovation, College of Pharmacy, University of Kentucky, Lexington, USA.
 - Ms. Samyyia Abrar completed HEC's 6 months IRSIP fellowship to complete a part of her PhD research at the Department of Quadram Institute of Biosciences, Norwich Research Park Colney Norwich NR4 7UA UK
 - Ms. Nasira Munwar lone completed HEC's 6 months IRSIP fellowship to complete a part of her PhD research at the Center for public care and Primary Health Queen Mary University London, UK
 - Ms. Saher Mahmood completed HEC's 6 months IRSIP fellowship to complete a part of her PhD research at Warwick University, UK

INSTITUTE OF AGRICULTURE SCIENCES

- **Present Scholars**
 - Ms. Sana Hanif
 - Ms. Qurat-Ul-Ain Farooq

INSTITUTE OF APPLIED PSYCHOLOGY

- **Faculty Development Programmes** (MS/ PhD Local + Foreign)
 - Two faculty members are on leave for Ph.D from UK and Germany funded by University of the Punjab, Lahore.
 - One faculty member is doing Ph.D from the Institute of Applied Psychology, University of the Punjab, Lahore funded by the Higher Education Commission of Pakistan (under HEC Indigenous Scholarship for PhD studies).



○ **Returned Scholars**

Ms. Nida Zafar, Ph.D Scholar (Session 2014 Spring Semester) awarded scholarship from Higher Education Commission for 6 months fellowship under “International Research Support Initiative Program” for Ph.D research work under foreign supervisor Prof. Dr. Stale Pallesen from Department of Psychosocial Sciences, University of Bergen, Norway.

○ **Present Scholars**

- Ms. Afifa Anjum, Lecturer is Ph.D Scholar at Institute of Applied Psychology, University of the Punjab, Lahore.
- Ms. Omama Tariq, Assistant Professor is Ph.D Scholar at University of Brighton, UK.
- Ms. Tahira Mubashar, Lecturer is Ph.D Scholar at University of Kassel, Germany.

○ **Pre-service and in-service professional development programs**

Pre-service and in-service professional development programs are organized at University level for the newly inducted and in-service faculty members.

SCHOOL OF BIOLOGICAL SCIENCES

○ **Faculty development programmes (MS/Ph.D. local + foreign)**

All the faculty members are Ph.D. and experienced researchers. They continued with their usual research activities and collaboration with laboratories in foreign Universities (Massachusetts, Cornell, UCL, Davis, NIH, Houma, Wales, Southampton, Kyoto, Kotaido, Wuhan and Putra.

The School receives foreign faculty members for shorter period of time, who are actively involved in teaching of a particular course and or help in Ph.D. research projects of the students who are working in their areas of expertise. The school also sends its faculty and students in the foreign laboratories to develop their skills and knowledge in the modern biological sciences. During the period under report one faculty member and 12 Ph.D. students have spent more than six months in foreign laboratories situated in technology advance countries.

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **Faculty development programmes (MS/ PhD local + foreign)**

- **Local:**
 - One faculty member is enrolled in M.Phil and one for Ph.D
 - Six faculty members already enrolled in Ph.D are going to complete their degrees within a year.
- **Foreign:**
 - One faculty member has been proceeded foreign country for Ph.D during 2017-18 under Faculty Development Program.
 - Two faculty members have already been proceeded foreign country under Faculty Development Program.



- **Returned Scholars:**
 - One faculty member has been returned after completing his Ph.D from China.
 - One faculty member will return in December, 2018 after completing his Ph.D from China.
- **Present Scholar**
 - Ph.D = 10 (7 local + 3 foreign)
 - M.Phil= 1 (local)

Faculty of Pharmacy

PUNJAB UNIVERSITY COLLEGE OF PHARMACY

- **Faculty development programmes (MS/ PhD local + foreign)**
 - The University College of Pharmacy has continue the faculty development program at the College level.
 - The University of the Punjab, Lahore is sponsoring 3 Faculty members for Foreign PhD program.
- **Returned Scholars:** One (01)
- **Present Scholars :** Two (2)
- **Pre-service and in-service professional development programmes**
Recently, PUCP has initiated the Continuous Education Program, under which, in 2018, a first ever certificate program for any Pharmacy Institute, namely Quality by Design (QbD) has been started.

Faculty of Sciences

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

- **Faculty development programs (MS / PhD local + foreign):**
Presently following faculty members are pursuing PhD studies in foreign / local Universities and working on their research work.

- **Foreign**

| Sr. No. | Name of Faculty member | Subject / Area of Study |
|---------|---|-------------------------|
| 1. | Mr. Muhammad Kamran (Assistant Professor) | THM |

- **Local**

| Sr. No. | Name of Faculty member | Department / University | Subject / Area of Study |
|---------|------------------------|-------------------------|-------------------------|
| 1. | Mr. Azhar Ali | CEES, P.U., Lahore | Environmental Sciences |
| 2. | Ms. Anum Tariq | -do- | Environmental Sciences |
| 3. | Mr. Muhammad Waqar | -do- | Applied Hydrology |

- **Present Scholars:** 08



COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Faculty development programmes (MS/ PhD local + foreign)**
 - 1 faculty member is doing PhD from UK
 - 2 faculty members are doing PhD from Malaysia
- **Present Scholars**
 - 2 faculty members are registered as PhD student in Punjab University
 - 1 faculty member is enrolled in PhD at LUMS
 - 1 faculty member is enrolled in PhD at The Lahore University

DEPARTMENT OF GEOGRAPHY

- **Faculty development programmes (MS/ PhD local + foreign)**

Presently the department is availing the services of Eight regular teachers. Out of these regular teachers 5 are PhDs (Nil foreign & 5local PhD) while 1 is MPhil..
- **Returned Scholars:** (Post Doctorate) 01
- **Present Scholars:** 05

DEPARTMENT OF MATHEMATICS

- **Faculty development programmes (MS/ PhD local + foreign)**
 - Ms. Saira Hamid, Lecturer is doing Ph.D. from Department of Mathematics, University of the Punjab, Lahore.

DEPARTMENT OF PHYSICS

- **Present Scholars**
 - Mr. Muhammad Shahbaz is doing PhD from USA University under the PU-HEC Faculty Development Programme.
 - Miss Attia Falak (Lecturer) is doing PhD from China University under the PU-HEC Faculty Development Programme.

DEPARTMENT OF SPACE SCIENCE

- **Faculty development programmes (MS/ PhD local + foreign)**

Mr. Athar Javaid currently doing Ph.D. From Germany
- **Present Scholars**

5 faculty members are registered as PhD student in PU.

INSTITUTE OF GEOLOGY

- **Faculty development programmes (MS/PhD local + foreign)**

Rana Ammad Bin Sadiq (Lecturer) is pursuing PhD Studies at the Technical University of Freiberg, Germany awarded by the Punjab University Overseas Scholarship and Travel Grant Committee.



PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Returned Scholar**
Dr. Hassan Khan
- **Present Scholars**
 - Sadia Shahzad
 - Mr. Abdul Khaliq
 - Muhammad Arif Butt
 - Muhammad Idrees
 - Mr. Abdul Mateen
 - Muhammad Ahmad Ghazali
 - Ms. Javeria Iqbal
 - Ms. Saima Ali
 - Ms. Muddasra Arshad
 - Ms. Amina Mustansir
 - Rukhsana Kausar
 - Kashif Murtaza
 - Aisha Khan
 - Zobia Suhail

Punjab University Gujranwala Campus

- **Faculty development Programme (MS/ PhD local + Foreign)**
The Punjab University is facilitating the faculty members by offering them scholarships for PhD from the renowned foreign Universities of the world. Resultantly, two faculty members from Gujranwala Campus are doing PhD from renowned foreign universities on scholarship awarded by the University of the Punjab, Lahore.
- **Present Scholars: 2**

Punjab University Jhelum Campus

- **Present Scholars**

| Sr. No. | No. of Present Scholars | |
|---------|-------------------------|-----|
| 1 | Dr. Mudasar Ghafoor | PhD |



Chapter

5

ACCESS

- *Basic Enrolment*
- *Equity*
- *Gender-wise Detail*
- *Employability*
- *Faculty-Student Ratio*



CHAPTER 5

Access

Faculty of Arts & Humanities

CENTRE FOR SOUTH ASIAN STUDIES

- **Basic enrolment:**
M.Phil = 20 Morning & 08 Evening Ph.D = 07 and 24 Students of Indian Studies Diploma
- **Equity:** 30 Ph.D +16 M.Phil Fall 2017 Morning +08 M.Phil Spring 2018+24 Diploma Students
- **Gender-wise Detail**

| | Male | Female |
|----------------------|------|--------|
| M.Phil 2017 | 13 | 07 |
| M.Phil. Evening 2018 | 03 | 05 |
| PhD 2017 | 02 | 05 |
| Diploma | 17 | 07 |

COLLEGE OF ART AND DESIGN

The Graduates of College of Art & Design are employed in Public and Private Sector including Publication Houses, Advertising Agencies, Fashion Houses, Print and Electronic Media, Journalism, Interior Design Houses, Freelance Design Consultancies, Photography Studios, Art Criticism, Museum Related Fields such as Curatorship of Galleries, Set and Exhibition Design and Display, Book Illustration and Publishing, Environmental Design, Signage Design, Studio Workshop etc.

- **Faculty-student ratio**

| Program | Ratio |
|-------------------------------|-------|
| BFA & B. Arch | 1:9 |
| M.A. (Painting), MFA, M. Arch | 1:4 |
| M. Phil | 1:4 |
| MS Art History | 1:7 |
| PhD | 1:3 |

DEPARTMENT OF ARCHAEOLOGY

- **Basic enrolment:** 31 students (M.A. Archaeology) 07 students (M.Phil Archaeology)
- **Gender-wise Detail:**
 - 13-Female and 12-Male (M.A. Archaeology)
 - 07-Female and 2-Male (M.Phil Archaeology)



- **Employability**
 - Fair opportunities for employment are available with Punjab Govt., Museums, other cultural institution and NGOs.
 - Students get jobs in Museums, Provincial or Federal Department of Archaeology, TDCP, PTDC and Heritage management organizations after successful completion of M.A. and M.Phil Degrees.
- **Faculty-student ratio**
 - 1=8 students approx. (M.A. Archaeology)
 - 1=3 students approx. (M.Phil. Archaeology)

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **Basic Enrolment:** 856 students
- **Gender-wise Detail**

| Programme | Male | Female | Total |
|--|------|--------|--------|
| M.Phil – I | 05 | 10 | 15 |
| M. Phil – II | 01 | 14 | 15 |
| MA – I (Morning & Replica) | 39 | 45 | 84 |
| MA – II (Morning & Replica) | 30 | 55 | 85 |
| BS-I | 23 | 17 | 40 |
| BS-III | 12 | 18 | 30 |
| BS-V | 16 | 25 | 41 |
| BS-VII | 09 | 18 | 27 |
| PGD-ELT | 09 | 31 | 40 |
| Diploma in Linguistics | 27 | 30 | 57 |
| Spoken English Certificate (4 session in a year) | 249 | 173 | 422 |
| Total | | | 856 |
| No. of Permanent & Visiting Faculty | | | 28 |
| Faculty-Student Ratio | | | 1 : 30 |

- **Employability**

Students of the Department of English serve in different fields: government, Semi-government and private sectors, particularly in educational institutions and Civil Services.

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

- **Basic Enrolment:** 121
- **Gender-wise Detail**

| S.No. | Program | Male | Female |
|-------|--------------------------|------|--------|
| 1 | M.A. | 43 | 13 |
| 2 | M.Phil. | 21 | 19 |
| 3 | Ph.D. | 06 | 04 |
| 4 | Ph.D. (Chinese students) | 09 | 06 |



○ **Employability**

The graduating students of department are eligible to serve in public and private sectors. Many students who have complete their Masters, M.Phil. and Ph.D. degrees are now serving in educational institutes and in posted in civil services of Pakistan.

○ **Faculty –Student ratio: 27**

PAKISTAN STUDY CENTRE

○ **Basic enrolment**

M. Phil. Pakistan Studies Session: 29

○ **Gender-wise Detail**

| | Male | Female |
|---------------------------|------|--------|
| M. Phil. Pakistan Studies | 15 | 09 |

○ **Employability**

The graduating students of the Centre are eligible to serve in public and private sectors. Most students who complete their M. Phil. and Ph.D. degrees are serving in educational institutes and civil services.

○ **Faculty-student ratio**

| | |
|---------------------------|-------|
| M. Phil. Pakistan Studies | 04:01 |
|---------------------------|-------|

DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

○ **Basic enrollment**

- BS (hons): 24
- M.A French: 14
- Short courses certificates (evening): 28

○ **Employability**

The feedback from the alumni and passed out graduates continued to show instant market/industry absorption of our top graduates who were offered employment much before their graduation on the basis of their academic excellence and expertise in French Studies. Such statistics prove that the field of French Studies is in high demand in both public and private sectors.

○ **Faculty-student ratio**

| S. No. | Faculty | Students | Ratio |
|--------|---------|----------|-------|
| 1. | 2 | 70 | 2:35 |

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

○ **Basic enrolment: 657**



○ **Gender-wise Detail**

| Morning | | BS | | | Master | | | M Phil | | | Ph.D | | |
|----------------------|----------|----|-----|-------|--------|----|-------|--------|----|-------|------|----|-------|
| | Semester | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| 1 st Year | I | 20 | 27 | 47 | 19 | 22 | 41 | 2 | 18 | 20 | 4 | 6 | 10 |
| 2 nd Year | III | 12 | 33 | 45 | 8 | 15 | 23 | 3 | 17 | 20 | 0 | 8 | 8 |
| 3 rd Year | V | 16 | 36 | 52 | | | | | | | 3 | 7 | 10 |
| | VII | 8 | 50 | 58 | | | | | | | 2 | 4 | 6 |
| Sub-Total (i) | | 56 | 146 | 202 | 27 | 37 | 64 | 5 | 35 | 40 | 9 | 25 | 34 |

○ **Self-Support**

| Morning | | BS | | | Master | | | M Phil | | | Ph.D | | |
|----------------------|----------|-----|-----|-------|--------|----|-------|--------|----|-------|------|----|-------|
| | Semester | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| 1 st Year | I | 28 | 35 | 63 | 12 | 12 | 24 | 4 | 16 | 20 | 2 | 8 | 10 |
| 2 nd Year | III | 18 | 35 | 53 | 4 | 6 | 10 | 3 | 16 | 19 | 6 | 4 | 10 |
| 3 rd Year | V | 22 | 36 | 58 | | | | | | | 3 | 2 | 5 |
| | VII | 12 | 33 | 45 | | | | | | | | | |
| Sub-Total (ii) | | 73 | 148 | 219 | 16 | 18 | 34 | 7 | 32 | 39 | 11 | 14 | 25 |
| Total (i+ii) | | 136 | 285 | 421 | 43 | 55 | 98 | 12 | 67 | 79 | 20 | 39 | 59 |

○ **Employability**

- Public Sector: Lecturers in the Home Department, Lahore College for Women University, Fatima Jinnah College, Chuna Mundi, Fatima Jinnah Women University
- Gender Specialists in GRAP, DWD and Ministry of Human Rights
- Private Sector: National and International NGOs

○ **Faculty-student ratio: 1:12**

DEPARTMENT OF POLITICAL SCIENCE

○ **Basic enrolment**

| Sr. No. | Program | Total Number of Students Enrolled |
|---------|-----------------------------------|-----------------------------------|
| 1 | BS (Hons.) Political Science | 45 |
| 2 | M.A Political Science | 53 |
| 3 | M.A International Relations | 47 |
| 4 | M.A Diplomacy & Strategic Studies | 46 |
| 5 | M.Phil Political Science | 15 |
| 6 | M.Phil International Relations | 20 |
| 7 | Ph.D Political Science | 10 |
| 8 | Ph.D International Relations | 16 |
| Total: | | 252 |



○ **Gender wise detail**

| Sr. No. | Program | Gender Wise Enrolled | | Total Number of Students |
|---------|-----------------------------------|----------------------|--------|--------------------------|
| | | Male | Female | |
| 1 | BS (Hons.) Political Science | 39 | 09 | 48 |
| 2 | M.A Political Science | 49 | 15 | 64 |
| 3 | M.A International Relations | 50 | 10 | 60 |
| 4 | M.A Diplomacy & Strategic Studies | 43 | 10 | 53 |
| 5 | M.Phil Political Science | 7 | 8 | 15 |
| 6 | M.Phil International Relations | 14 | 6 | 20 |
| 7 | Ph.D Political Science | 3 | 7 | 10 |
| 8 | Ph.D International Relations | 5 | 10 | 15 |
| Total: | | 210 | 75 | 285 |

○ **Gender wise detail**

| Sr. No. | Program | Gender Wise Enrolled | | Total Number of Students |
|---------|-----------------------------------|----------------------|--------|--------------------------|
| | | Male | Female | |
| 1 | BS (Hons.) Political Science | 28 | 17 | 45 |
| 2 | M.A Political Science | 30 | 23 | 53 |
| 3 | M.A International Relations | 40 | 07 | 47 |
| 4 | M.A Diplomacy & Strategic Studies | 34 | 12 | 46 |
| 5 | M.Phil Political Science | 9 | 6 | 15 |
| 6 | M.Phil International Relations | 9 | 11 | 20 |
| 7 | Ph.D Political Science | 4 | 6 | 10 |
| 8 | Ph.D International Relations | 8 | 8 | 16 |
| Total: | | 210 | 75 | 252 |

○ **Employability**

In Media, Teaching, Foreign Office, NGO's, Judiciary and other administrative posts in govt. and private sector

○ **Faculty student ratio**

1/23 (11 Faculty members, 252 students)

DEPARTMENT OF SOCIAL WORK

○ **Basic enrolment**

| | |
|--|--------|
| BS Social Work Self supporting (First Semester) Session 2017-2021 (Total 75 Students Enrolled) | |
| Male | Female |
| 37 | 38 |



| | M.Sc. Social Work Part-I Session 2017-2019 (Total 123 Students Enrolled) | |
|---------------------------------------|--|--------|
| | Male | Female |
| Morning Programme (Total Students 61) | 28 | 33 |
| Replica Programme (Total Students 62) | 19 | 43 |

| M Phil Social Work (First Year) Session 2017-2019 (Total 25 Students Enrolled) | |
|--|--------|
| Male | Female |
| 08 | 17 |

○ **Gender wise Detail**

| Programmes | Gender | | Total Number of Students |
|-------------------------|--------|---------|--------------------------|
| | Males | Females | |
| PhD (Third Year) | 07 | 01 | 08 |
| PhD (Fourth Year) | 03 | 05 | 08 |
| M.Phil (First Year) | 08 | 17 | 25 |
| M.Phil (Third Year) | 02 | 08 | 10 |
| M.Sc. Part-I (Morning) | 28 | 33 | 61 |
| M.Sc. Part-I (Replica) | 19 | 43 | 62 |
| M.Sc. Part-II (Morning) | 24 | 31 | 55 |
| M.Sc. Part-II (Replica) | 23 | 36 | 59 |
| BS Semester-I | 37 | 38 | 75 |
| Total Students | | | 363 |

○ **Faculty Student Ratio:**

Total Number of Students (363) = 45.37

Total Number of Faculty Members (8) = 1

INSTITUTE OF COMMUNICATION STUDIES

○ **Basic Enrolment**

- BS (4-Year) Communication Studies (Gender wise detail)

| | |
|--------|----|
| Male | 26 |
| Female | 27 |
| Total | 53 |



▪ BS (4-Year) Communication Studies (Replica Program) Gender wise detail

| | |
|--------|----|
| Male | 22 |
| Female | 28 |
| Total | 50 |

▪ M.Sc Communication Studies (Morning Program) (Gender wise detail)

| | |
|--------|----|
| Male | 25 |
| Female | 29 |
| Total | 64 |

▪ M.Sc Communication Studies (Replica Program) (Gender wise detail)

| | |
|--------|----|
| Male | 45 |
| Female | 24 |
| Total | 69 |

▪ M.Sc Communication Studies (Development Journalism) (Gender wise detail)

| | |
|--------|----|
| Male | 31 |
| Female | 19 |
| Total | 50 |

▪ M.Sc Communication Studies (Film & TV Production) Gender wise detail

| | |
|--------|----|
| Male | 31 |
| Female | 19 |
| Total | 50 |

▪ M. Phil (Research Track) (Gender wise detail)

| | |
|--------|----|
| Male | 04 |
| Female | 12 |
| Total | 16 |

▪ M. Phil (Professional Track) (Gender wise detail)

| | |
|--------|----|
| Male | 12 |
| Female | 14 |
| Total | 26 |

▪ Ph.D (Gender wise detail)

| | |
|--------|----|
| Male | 08 |
| Female | 07 |
| Total | 15 |



| | | |
|-----------------------|---|-----|
| Total Male Students | = | 210 |
| Total Female Students | = | 202 |
| Grand Total | = | 412 |

○ **Employability**

Graduate students of Institute of Communication Studies achieves the highest level of employability as compare to other institutions offering media and journalism education.

○ **Faculty-Students Ratio**

| | | |
|---|---|-----|
| Total Number of Faculty Permanent Members | = | 17 |
| Total Number of Visiting Faculty Members | = | 12 |
| Total Number of Students (Approximately) | = | 900 |

INSTITUTE OF SOCIAL & CULTURAL STUDIES

○ **Basic enrolment**

Total number of enrolled students in the current period are 878

No. of Students Enrolment by Sex and Year for Academic Session 2017-2018

▪ **BS (4-years) Sociology & Sociocultural Studies**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | |
|---------|----------------------|----|----------------------|----|----------------------|----|----------------------|----|
| | M | F | M | F | M | F | M | F |
| Morning | 23 | 33 | 21 | 33 | 24 | 37 | 12 | 39 |
| Replica | 40 | 35 | 32 | 44 | 36 | 34 | 30 | 33 |
| Evening | | | | | | | | |

▪ **M.Sc Degree**

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Morning | 45 | 65 | 50 | 58 |
| Replica | 100 | 50 | 93 | 40 |
| Evening | | | | |

▪ **M.Phil**

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Regular | 09 | 31 | 11 | 29 |
| Replica | 31 | 70 | 37 | 63 |

▪ **Ph.D Degree**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | | 5 th Year | |
|---------|----------------------|---|----------------------|----|----------------------|----|----------------------|----|----------------------|---|
| | M | F | M | F | M | F | M | F | M | F |
| Regular | 5 | 5 | 8 | 2 | 7 | 3 | 3 | 8 | 6 | 3 |
| Evening | 3 | 7 | 8 | 18 | 15 | 10 | 15 | 11 | | |



○ **Employability**

- BS (Hons.) (4 years) Sociology & Sociocultural Studies had approx. 65% employability rate.
- MSc Sociology had approx 60% employability rate.
- MSc Population Sciences (MPS) (Afternoon Self-Supporting) had approx 40% employability rate.
- MSc Criminology & Security Studies (Self-Supporting) had approx 75% employability rate.
- MSc Development Studies (Self-Supporting) had 40% employability rate.

○ **Faculty-student ratio**

| Number of teachers | Number of students enrolled | Ratio |
|--------------------|-----------------------------|-------|
| 17 | 1425 | 83:82 |

Faculty of Commerce

HAILEY COLLEGE OF BANKING & FINANCE

○ **Basic enrolment**

- Banking and Finance

| Programs | Session | Semester | Girls | Boys | Total |
|---|---------|----------|-------|------|-------|
| BBA (Hons) Banking & Finance | 2017-21 | Ist | 42 | 30 | 72 |
| MBA 3.5 Yeas Banking & Finance (Morning) | 2017-21 | Ist | 38 | 40 | 78 |
| MBA 1.5 Years Banking & Finance (Morning) | 2017-19 | Ist | 23 | 27 | 50 |
| MBA 3.5 Years Banking & Finance (Evening) | 2017-21 | Ist | 26 | 127 | 153 |
| Total | | | 129 | 224 | 353 |

- Insurance & Risk Management

| Programs | Session | Semester | Girls | Boys | Total |
|---|---------|----------|-------|------|-------|
| BBA (Hons) Insurance & Risk Management | 2017-21 | Ist | 38 | 26 | 64 |
| MBA 3.5 Yeas Insurance & Risk Management (Morning) | 2017-21 | Ist | 35 | 36 | 71 |
| MBA 1.5 Years Insurance & Risk Management (Morning) | 2017-19 | Ist | 13 | 25 | 38 |
| MBA 3.5 Years Insurance & Risk Management (Evening) | 2017-21 | Ist | 25 | 88 | 113 |
| Total | | | 111 | 175 | 286 |

- Faculty Students Ratio

| No. of Students | Permanent Faculty | Visiting Faculty | Ratio |
|-----------------|-------------------|------------------|--------|
| 639 | 14 | 36 | 12.78% |



HAILEY COLLEGE OF COMMERCE

○ **Basic Enrolment**

- Admitted in B.Com Hons. 4 years semester Programme after passing Intermediate
- Admitted in M.Com 3 ½ years after passing B.Com. I.T 2 years programme
- Admitted in M.Com 1 ½ after passing B.Com 4 years or M.Com 2 years.

○ **Gender wise Detail**

| Program | | No. of students admitted | | | | No. of Seats sectioned | |
|--------------------------------|---------|--------------------------|----|----------|----|------------------------|----------|
| | | Merit | | Reserved | | Merit | Reserved |
| | | M | F | M | F | | |
| Bachelor B. Com (4 Yrs) | Morning | 98 | 98 | 13 | 07 | 200 | 15 |
| | Replica | 119 | 81 | 04 | 01 | 200 | 5 |
| | Evening | - | - | - | - | - | - |
| Master M. Com (3½ years) | Morning | 52 | 32 | 02 | - | 86 | 10 |
| | Replica | 48 | 45 | - | - | 94 | 04 |
| | Evening | - | - | - | - | - | - |
| M. Com (1½ years) | Morning | 41 | 08 | - | - | 50 | - |
| | Replica | 21 | 11 | - | - | 50 | - |
| | Evening | 08 | 12 | - | - | 50 | - |
| M.Phil. | Morning | 8 | 12 | - | - | 20 | - |
| Ph.D. | Morning | 05 | - | - | - | 20 | - |

○ **Faculty Student Ration**

| No of Budgeted Post | | No. of Faculty Member actually present Permanent Contractual | | No. of Ph.D Teachers | No. of Non-Ph.D Teachers | Programs running in the College Programme No. of Students | |
|----------------------|----|--|---|----------------------|--------------------------|--|----------|
| Professors | 03 | 02 | 0 | 02 | 0 | B.Com (Hons.) Various Semesters | 1534 |
| Associate Professors | 06 | 01 | 0 | 01 | 0 | M.Com 3 ½ years Various Semesters | 478 |
| Assistant Professors | 15 | 15 | 0 | 09 | 06 | M.Com 1 ½ years | 68 |
| Lecturers | 18 | 02 | 1 | 0 | 02 | M.Phill Ph.D | 38 40 |



Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

○ **Basic Enrollment**

The number of students admitted for academic session 2017-18 is given in table

| Program | | No. of Applications Received | No. of Students Admitted | | No. of Seats Sectioned | |
|-----------------------------------|--------------------------|------------------------------|--------------------------|----------|------------------------|----------|
| | | | Merit | Reserved | Merit | Reserved |
| | | | | | | |
| Bachelor | Morning | 1356 | 50 | 9 | 50 | 10 |
| | Replica | 1009 | 50 | 2 | 50 | 2 |
| | Evening | - | - | - | - | - |
| Master | Morning | 388 | 63 | 9 | 69 | 12 |
| | Replica | 347 | 34 | 1 | 69 | 4 |
| | Self-Supporting (MBEcon) | 254 | 33 | 1 | 69 | 4 |
| Ph.D. | | 53 | 7 | - | 10 | - |
| M.Phil. | | 556 | 20 | - | 20 | - |
| M.Phil. (Self-Supporting Program) | | 556 | 40 | - | 40 | - |
| Diploma PGDAE | | 78 | 28 | - | 140 | - |
| Total No. of Students | | | 325 | 22 | | |

○ **Equity**

Equity in terms of fairness, inclusion and access is top priority of Department of Economics because it plays significant role in narrowing the achievement gap. All students enrolled during 2017-18 regardless of gender, socio-economic status, language background and religion received quality education from our competent faculty in a conducive learning environment and equally acquired access to services (library, technical equipment, computer lab) from institute. The Department of Economics has ensured that all students are able to learn and explore.

○ **Gender and Year Wise Breakup**

The student enrollment by gender and year for academic session 2017-18 is as follows:

▪ Bachelor Degree

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | |
|---------|----------------------|----|----------------------|---|----------------------|---|----------------------|---|
| | M | F | M | F | M | F | M | F |
| Morning | 28 | 31 | - | - | - | - | - | - |
| Replica | 33 | 19 | - | - | - | - | - | - |



▪ **Master Degree**

| | 1 st Year | | 2 nd Year | |
|--------------------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Morning | 14 | 58 | 16 | 53 |
| Replica | 14 | 21 | 10 | 43 |
| MBEcon (Afternoon) | 09 | 25 | 10 | 43 |

▪ **M.Phil. Degree**

| | 1 st Year | | 2 nd Year | |
|-----------------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Regular | 5 | 15 | 5 | 15 |
| Self-Supporting | 11 | 29 | 17 | 23 |

▪ **Ph.D. Degree**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | | 5 th Year | |
|---------|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|---|
| | M | F | M | F | M | F | M | F | M | F |
| Regular | 3 | 4 | 0 | 0 | 6 | 4 | 4 | 6 | 3 | 3 |

▪ **Diploma (PGDAE)**

| | 1 st Year | |
|---------|----------------------|----|
| | M | F |
| Evening | 17 | 11 |

○ **Employability (max 02 lines)**

Our Bachelor graduates shall be ready for entry level positions in public and private organizations. Our Master graduates shall be able to work as lecturers, managers, financial analysts, bankers and business executives. Our M.Phil. and Ph.D. graduates shall be well equipped with research skills for notable contributions in the field of economics.

○ **Student – Teacher Ratio**

The number of teaching staff is reported in table 5.6 and student - teacher ratio is provided in table (a) & (b).

Number of Teaching Staff

| Category | Regular Faculty | | Contract Faculty | | Visiting Faculty | | Total |
|---------------------|-----------------|----------------|------------------|----------------|------------------|----------------|-------|
| | No. of Males | No. of Females | No. of Males | No. of Females | No. of Males | No. of Females | |
| Professor | - | - | 1 | - | - | - | 01 |
| Associate Professor | 1 | - | - | - | - | - | 01 |
| Assistant Professor | 1 | 1 | 3 | 1 | 2 | 1 | 09 |
| Lecturers | 2 | 2 | 1 | 1 | 4 | 5 | 15 |



(a) Student - Teacher Ratio

| Total No. of Students (New Intake) | Total No. of Teachers (Regular) |
|--|------------------------------------|
| 347 | 07 |
| It means Student – teacher ratio is 50:1 | |

(b) Student - Teacher Ratio

| Total No. of Students (New Intake + Existing) | Total No. of Teachers (Regular) |
|--|------------------------------------|
| (347 + 261) = 608 | 07 |
| It means Student – teacher ratio is 87:1 | |

DEPARTMENT OF INFORMATION MANAGEMENT○ **Basic enrolment**

In Masters (Morning & Afternoon) program, seventy one students got admission in 2018. In M.Phil program, twelve students admitted and in Ph.D. program, thirteen students got admission.

○ **Gender-wise Detail**

| Program | Male | Female | Total |
|--------------------------|------|--------|-------|
| M.A (Morning, Afternoon) | 21 | 50 | 71 |
| MPhil Regular | 5 | 7 | 12 |
| PhD | 8 | 5 | 13 |

○ **Employability**

The Department regularly conducts surveys to know the job market of its graduates and the needed competencies. Efforts have been made to improve the job market and quality of the program.

○ **Faculty-student ratio**

There were 9 teachers available in the department. The student ratio was 1:10. The department also hired visiting faculty members.

INSTITUTE OF ADMINISTRATIVE SCIENCES○ **Basic enrolment**

| Fall Semester 2017-18 | | | | | | | | |
|-----------------------|---------|--|----------|-----------|----|----|-------|-----|
| Sr. No | Shift | Class | Semester | Session | M | F | Total | |
| 1 | Regular | PhD in Management | 1st | 2018-2021 | 3 | 2 | 5 | 123 |
| 2 | Regular | M.Phil in Management | 1st | 2018-2020 | 2 | 13 | 15 | |
| 3 | Regular | M.Phil in Management | 3rd | 2017-2019 | 0 | 15 | 15 | |
| 4 | Regular | Master of Public Administration (18 Years) | 1st | 2018-2020 | 13 | 12 | 25 | |



| Fall Semester 2017-18 | | | | | | | | |
|-----------------------|---------|--|----------|-----------|----|----|-------|-----|
| Sr. No | Shift | Class | Semester | Session | M | F | Total | |
| 5 | Regular | Master of Public Administration (18 Years) | 3rd | 2017-2019 | 3 | 17 | 20 | |
| 6 | Regular | MS HRM | 1st | 2018-2020 | 5 | 20 | 25 | |
| 7 | Regular | MS HRM | 3rd | 2017-2019 | 3 | 15 | 18 | |
| 8 | Replica | M.Phil in Management | 1st | 2018-2020 | 7 | 13 | 20 | 117 |
| 9 | Replica | M.Phil in Management | 3rd | 2017-2019 | 5 | 12 | 17 | |
| 10 | Replica | Master of Public Administration (18 Years) | 1st | 2018-2020 | 8 | 4 | 12 | |
| 11 | Replica | Master of Public Administration (18 Years) | 3rd | 2017-2019 | 3 | 13 | 16 | |
| 12 | Replica | MS HRM | 1st | 2018-2020 | 4 | 23 | 27 | |
| 13 | Replica | MS HRM | 3rd | 2017-2019 | 4 | 19 | 25 | |
| 14 | Evening | Master of Public Administration (18 Years) | 1st | 2018-2020 | 39 | 21 | 60 | 288 |
| 15 | Evening | Master of Public Administration (18 Years) | 3rd | 2017-2019 | 45 | 15 | 60 | |
| 16 | Evening | MS HRM | 1st | 2018-2020 | 34 | 26 | 60 | |
| 17 | Evening | MS HRM | 3rd | 2017-2019 | 28 | 26 | 54 | |
| 18 | Evening | MS HA | 1st | 2018-2020 | 11 | 19 | 30 | |
| 19 | Evening | MS HA | 3rd | 2017-2019 | 10 | 14 | 24 | |
| 20 | Regular | Master of Human Resource Management | 1st | 2018-2020 | 25 | 34 | 58 | 874 |
| 21 | Regular | Master of Human Resource Management | 3rd | 2017-2019 | 17 | 36 | 53 | |
| 22 | Regular | BS (Hons) Management | 1st | 2018-2022 | 26 | 49 | 75 | |
| 23 | Regular | BS (Hons) Management | 3rd | 2017-2021 | 29 | 42 | 71 | |
| 24 | Regular | BS (Hons) Management | 5th | 2016-2020 | 23 | 50 | 73 | |
| 25 | Regular | BS (Hons) Management | 7th | 2015-2019 | 22 | 46 | 68 | |
| 26 | Replica | Master of Human Resource Management | 1st | 2018-2020 | 33 | 30 | 63 | |
| 27 | Replica | Master of Human Resource Management | 3rd | 2017-2019 | 22 | 34 | 56 | |
| 28 | Replica | BS (Hons) Management | 1st | 2018-2022 | 48 | 41 | 89 | |
| 29 | Replica | BS (Hons) Management | 3rd | 2017-2021 | 26 | 65 | 91 | |
| 30 | Replica | BS (Hons) Management | 5th | 2016-2020 | 34 | 54 | 88 | |
| 31 | Replica | BS (Hons) Management | 7th | 2015-2019 | 36 | 45 | 89 | |
| 32 | Evening | Master of Marketing | 6th | 2016-18 | 24 | 3 | 27 | 228 |
| 33 | Evening | Master of Health Administration | 6th | 2016-18 | 32 | 14 | 46 | |
| 34 | Evening | Master of Human Resource Management | 6th | 2016-18 | 3 | 7 | 10 | |



| Fall Semester 2017-18 | | | | | | | | |
|-----------------------|---------|-------------------------------------|-----------------|---------|----|----|-------|-------------|
| Sr. No | Shift | Class | Semester | Session | M | F | Total | |
| 35 | Evening | Master of Marketing | 3rd | 2017-19 | 20 | 3 | 23 | |
| 36 | Evening | Master of Human Resource Management | 3rd | 2017-19 | 37 | 21 | 58 | |
| 37 | Evening | Master of Marketing | 1 st | 2018-20 | 30 | 3 | 33 | |
| 38 | Evening | Master of Human Resource Management | 1 st | 2018-20 | 20 | 11 | 31 | |
| Total Students | | | | | | | | 1630 |

| | | | | | | | | | | |
|------------------------------------|-------------------------|-------|-----------|--------|--|-----------------------------------|----------|---------------|-------------|-------------|
| Faculty | Management & Economics | | | | | | | | | |
| Institute | Administrative Sciences | | | | | | | | | |
| Detail of Enrolled Students | | | | | Merit Scholarship Distributions Year 2017-2018 | | | | | |
| Bachelor (Morning) | | | | | | | | Students | Scholarship | |
| Semester | Session | BS | Male | Female | Total | | | MHRM | 195 | 9 |
| I | 2018-22 | | 26 | 49 | 75 | | | BS | 585 | 56 |
| III | 2017-19 | | 29 | 42 | 71 | | | MPA/Mphil/PhD | 168 | 18 |
| V | 2016-20 | | 23 | 50 | 73 | | | | 948 | 83 |
| VII | 2015-19 | | 22 | 46 | 68 | | | | | |
| Total | | | | | 287 | | | | | |
| Bachelor (Self-Supporting) | | | | | | | | | | |
| Bachelor | | | | | | | | | | |
| Semester | Session | | Male | Female | Total | | | | | |
| I | 2018-22 | | 48 | 41 | 89 | | | | 585 | 56 |
| III | 2017-19 | | 26 | 65 | 91 | | | | | |
| V | 2016-20 | | 34 | 54 | 88 | | | | | |
| VII | 2015-19 | | 36 | 45 | 89 | | | | | |
| Total | | | | | 357 | | | | | |
| Master (Morning) | | | | | | | | | | |
| Semester | Session | Mphil | MPA | HRM | Total | Program | Semester | Session | Students | Scholarship |
| I | 2018-20 | 15 | 25 | 25 | 65 | PhD | I | 2016-2018 | 34 | 3 |
| III | 2017-19 | 15 | 20 | 18 | 53 | PhD | III | 2015-2017 | | 3 |
| | | | | | 118 | | | | 168 | 18 |
| Master (Self-Supporting) | | | | | | | | | | |
| Semester | Session | Mphil | MPA | MSHRM | Total | Program | Semester | Session | Students | Scholarship |
| I | 2018-20 | 20 | 12 | 27 | 59 | MHRM | I | 2014-2016 | 110 | 4 |
| III | 2017-20 | 17 | 16 | 23 | 56 | MHRM | III | 2013-2015 | 85 | 5 |
| | | | | | | | | | 195 | 9 |
| | | | | | 115 | Total Merit Scholarship Allocated | | | | 83 |
| Master (Self-Supporting) Evening | | | | | | | | | | |
| Semester | Session | MPA | MSHRM | MSHA | Total | | | | | |
| I | 2018-20 | 60 | 60 | 30 | 150 | | | | | |
| III | 2017-19 | 60 | 54 | 24 | 138 | | | | | |
| | | | | | 288 | | | | | |
| Master (Morning & Self-Supporting) | | | | | | | | | | |
| Semester | Session | HRM | HRM (SSF) | | Total | | | | | |
| I | 2017-19 | 60 | 60 | | 150 | | | | | |
| III | 2016-18 | 60 | 54 | | 138 | | | | | |
| Master (Self-Supporting) Evening | | | | | | | | | | |
| Semester | Session | HRM | MMKT | MHA | Total | | | | | |
| I | 2018-20 | 31 | 33 | 0 | 64 | | | | | |
| III | 2017-19 | 44 | 32 | 0 | 76 | | | | | |
| VI | 2016-18 | 44 | 20 | 12 | 76 | | | | | |



INSTITUTE OF BUSINESS ADMINISTRATION

○ **Basic enrolment**

| Sr. No. | Program | No. of Enrolled Students |
|---------|-----------------------------------|--------------------------|
| 1 | Ph.D in Business Administration | 15 |
| 2 | M.Phil in Business Administration | 43 |
| 3 | MBA 1½ Years (Morning) | 141 |
| 4 | MBA 3½ Years (Afternoon) | 178 |
| 5 | MBA (Evening) | 421 |
| 6 | BBA Hons (Morning) | 214 |
| 7 | BBA Hons (Afternoon) | 224 |
| 8 | PGD (Evening) | 23 |
| Total | | 1259 |

○ **Gender-wise Detail**

| Sr. No. | Program | Male | Female | Total |
|---------|-----------------------------------|------|--------|-------|
| 1 | Ph.D in Business Administration | 6 | 9 | 15 |
| 2 | M.Phil in Business Administration | 16 | 27 | 43 |
| 3 | MBA 1½ Years (Morning) | 54 | 87 | 141 |
| 4 | MBA 3½ Years (Afternoon) | 116 | 62 | 178 |
| 5 | MBA (Evening) | 351 | 70 | 421 |
| 6 | BBA Hons (Morning) | 93 | 121 | 214 |
| 7 | BBA Hons (Afternoon) | 115 | 109 | 224 |
| 8 | PGD (Evening) | 9 | 14 | 23 |
| Total | | 760 | 499 | 1259 |

○ **Employability:** About 80%.

○ **Faculty-student ratio**

| No. of Faculty (permanent/contract) | No. of Student (Morning programs) | Faculty-student Ratio |
|--|--------------------------------------|-----------------------|
| 16 | 412 | 1:26 |



INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

○ **Gender-wise detail**

The gender-wise detail of enrolled students in Fall Semester 2017 is as follows

Program: BBIT (4 Years)

| Session | Morning A | | Afternoon A | | Morning B | | Afternoon B | | Total |
|---------|-----------|--------|-------------|--------|-----------|--------|-------------|--------|-------|
| | Male | Female | Male | Female | Male | Female | Male | Female | |
| F13 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| F14 | 2 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 9 |
| F15 | 12 | 29 | 16 | 17 | 13 | 26 | 22 | 20 | 155 |
| F16 | 7 | 31 | 14 | 24 | 14 | 18 | 24 | 19 | 151 |
| F17 | 13 | 17 | 20 | 20 | 14 | 24 | 18 | 22 | 148 |
| F18 | 14 | 27 | 22 | 20 | 15 | 26 | 20 | 23 | 167 |

Program: MBIT via BBIT

| Session | Morning A | | Afternoon A | | Morning B | | Afternoon B | | Total |
|---------|-----------|--------|-------------|--------|-----------|--------|-------------|--------|-------|
| | Male | Female | Male | Female | Male | Female | Male | Female | |
| F16 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| F17 | 7 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| F18 | 9 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

○ **Basic enrolment**

- Basic enrolment in M.A. & M. Phil in Special Education

| M. A. Program | Male students | Female students | Total Number of students |
|-----------------|---------------|-----------------|--------------------------|
| Morning | 12 | 52 | 64 |
| Self-supporting | 16 | 40 | 56 |
| M. Phil | 4 | 12 | 20 |

- Basic enrolment in Ph.D. in Special Education

| Ph.D. Program | Male students | Female students | Total Number of students |
|---------------|---------------|-----------------|--------------------------|
| Regular | 03 | 02 | 05 |

○ **Employability**

Approximately 85% graduates of this department have got jobs both in public and private sector

○ **Faculty student ratio**

- Student teacher ratio of special education in M.A. & M. Phil in Special Education

| Total students | Total teachers | Ratio |
|----------------|----------------|-------|
| 136 | 7 | 19.43 |



- Student teacher ratio of special education in Ph.D. in Special Education

| Total students | Total teachers | Ratio |
|----------------|----------------|-------|
| 05 | 3 | 1.7 |

INSTITUTE OF EDUCATION & RESEARCH

- **Basic Enrolment**

| Program | | No. of Students Admitted |
|----------|---------|--------------------------|
| Bachelor | Morning | 90 |
| | Replica | 107 |
| Master | Morning | 442 |
| | Replica | 273 |
| Ph. D | | 23 |
| M. Phil | | 198 |

Gender-wise Detail

| Bachelor Degree | 1st Year | | 2nd Year | |
|-------------------------------|----------|-----|----------|-----|
| | M | F | M | F |
| Morning | 17 | 76 | 9 | 56 |
| Replica | 9 | 98 | 5 | 85 |
| Master Degree | | | | |
| Morning | 81 | 341 | 58 | 287 |
| Replica | 57 | 216 | 43 | 243 |
| M.Phil Leading to Ph.D Degree | | | | |
| Regular | 11 | 69 | 05 | 60 |
| Replica | 14 | 102 | 29 | 108 |
| Ph.D | 05 | 18 | 10 | 35 |

- **Employability**

Our graduates have opportunities for getting jobs, in School Education Department, Colleges or Universities level as well as in private sector.

- **Faculty-Student Ratio**

| Faculty | | Student Morning | Student Evening | Overall |
|-----------------------|-----|-----------------|-----------------|---------|
| Type | No. | | | |
| Regular | 41 | 1060 | 923 | 1983 |
| Contract | 0 | | | |
| Visiting | 20 | | | |
| Total | 61 | | | |
| Student Teacher Ratio | | 1:17.37 | 1:15.13 | 1:32.50 |



Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

- **Basic Enrolment:** 121
- **Gender-wise Detail:** Male = 84 Female = 37
- **Faculty-Student Ratio:** 1:13.45

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

- **Basic Enrolment**

| Program | Year of Enrolment | No. of Students |
|----------------------------|-------------------|-----------------|
| M. Phil Polymer Technology | 2017-19 | 13 |
| M. Phil Polymer Technology | 2018-20 | 16 |

| Program | Year of Enrolment | No. of Students |
|-------------------------|-------------------|-----------------|
| Ph.D Polymer Technology | 2014 | 14 |
| Ph.D Polymer Technology | 2015 | 12 |
| Ph.D Polymer Technology | 2018 | 11 |

- **Equity**

All students in department are enrolled on merit basis as per University/HEC rules and all facilities are provided to them on equity.

- **Gender-wise Detail (in tabulated form for all programmes)**

| Programme | Males | Females | Total |
|---------------------------|-------|---------|-------|
| M.Phil Polymer Technology | 17 | 12 | 29 |
| Ph.D Polymer Technology | 21 | 16 | 37 |

- **Employability**

Students getting free after completion of M.Phil Polymer Technology program are getting jobs in Polymer Industries in Pakistan and also got admission in foreign universities of UK, Ireland, Australia and Germany for Ph.D

- **Faculty-student ratio**

Student Faculty ratio for M.Phil Polymer Technology

| Session | No. of Students | No of Teachers | Student Faculty ratio |
|---------|-----------------|----------------|-----------------------|
| 2017-19 | 13 | 6 | 2.16:1 |
| 2018-20 | 16 | 6 | 2.66:1 |



Student Faculty Ratio for Ph.D Polymer Technology

| Session | No. of Students | No of Teachers | Student Faculty ratio |
|---------|-----------------|----------------|-----------------------|
| 2014 | 14 | 6 | 2.5:1 |
| 2015 | 12 | 6 | 2.0:1 |
| 2018 | 11 | 6 | 2.0:1 |

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

○ Basic Enrolment

- 4-years B.Sc Chemical Engineering program enrollment 2018

| | Applicants | Enrolled |
|---------------------------|------------|----------|
| Regular Programme | 2021 | 49 |
| Self-Supporting Programme | 979 | 50 |

- 2-year M.Sc Chemical Engineering Program enrollment 2018 which is equivalent to MPhil degree. Enrollment is twice a year in fall and other in spring session.

| Applicants | Enrolled |
|------------|----------|
| 218 | 77 |

- PhD (Engg.) Chemical Engineering program enrollement 2018

| Applicants | Enrolled |
|------------|----------|
| 11 | 11 |

○ Equity

The student's enrollment programmes offered at the Institute is purely on merit basis. However, there are few reserved seats offered to the students from other provinces (Balochistan, FATA, AJK, KPK and Gilgit Baltistan) of Pakistan. Access to the facilities is provided to the students on equity.

○ Gender-wise detail

- 4-year B.Sc Chemical Engineering program enrollment 2018

| | Male | Female |
|---------------------------|------|--------|
| Regular Programme | 46 | 7 |
| Self-Supporting Programme | 40 | 6 |

- 2-years M.Sc Chemical Engineering Program enrollment 2018

| Male | Female |
|------|--------|
| 63 | 14 |

- PhD (Engg.) Chemical Engineering program enrollment 2016-17

| Male | Female |
|------|--------|
| 8 | 3 |



- **Employability**

The graduates of the Institute are serving in industrial sector as well as R & D organizations in Pakistan and abroad. Career Counseling cell is established at Institute level & recruitment drives are been conducted every by different organizations.

- **Faculty-student ratio**

4-year B.Sc Engineering Program and 2-years M.Sc. Engineering Program

| Program | B.Sc Engineering | M.Sc Engineering |
|-----------------------|------------------|------------------|
| Student Teacher Ratio | 20:1 | 10:1 |

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **Basic enrolment:** Overall 199 students were enrolled in 2017-18 session.

- **Gender-wise detail**

| Programme | 2017-18 | | Total |
|--|---------|--------|------------|
| | Male | Female | |
| BSc (Engg) Industrial Engineering & Management | 28 | 13 | 41 |
| MSc Quality & Performance Management | 01 | 03 | 04 |
| MS Total Quality Management (Evening) | 49 | 51 | 100 |
| MS Industrial Engineering & Management | 50 | 02 | 52 |
| PhD Total Quality Management | 01 | 01 | 02 |
| Grand Total | | | 199 |

- **Employability**

Alumni of this Institute are working in wide range of Industries all over the globe. Some alumni are even teaching in foreign Universities. All the programs have established their relative worth in the job market and Institute focus on improving curriculum as per needs of the employer and on feedback of Alumni.

- **Faculty-student ratio**

| Programme | Faculty-Student Ratio |
|--|-----------------------|
| BSc (Engg) Industrial Engineering & Management | 1:18.75 |
| MSc Quality & Performance Management | 1:2 |
| MS Total Quality Management | 1:23 |
| MS Industrial Engineering & Management | 1:11 |
| PhD Total Quality Management | 1:3 |

SKILL DEVELOPMENT CENTRE

Basic enrolment: Total no. of students enrolled in this year is **1341**. Tabulated details of total no of students are provided in the next chapter.

Employability: Our flexible, demand driven and cost effective technical and professional training programs reflect the latest in management thinking and address the dynamic learning needs of learners that ultimately help them in employability in multinational organizations.



○ **Faculty-Student ratio**

| Average No. of students / class | Faculty |
|---------------------------------|---------|
| 25 | 1 |

Faculty of Islamic Studies

INSITUTE OF OF ISLAMIC STUDIES

○ **Basic enrolment**

- 99 students are studying in M.A. Islamic Studies Part-I & 86 in Part-II and 52 Students are studying in M.A Islamic Studies Self-Supporting Program.
- 30 students are studying at M.Phil level.
- 15 students are enrolled in Ph.D.

○ **Gender-wise Detail**

| Sr. No. | Name of Programme | Number of Students | Male | Female |
|---------|-------------------------------|--------------------|------|--------|
| 1 | M.A. Part-I | 104 | 27 | 77 |
| 2 | M.A. Part-II | 92 | 8 | 84 |
| 3 | M.A Part-I (Self-Supporting) | 59 | 3 | 56 |
| 4 | M.A Part-II (Self-Supporting) | 54 | 9 | 45 |
| 5 | M.Phil | 30 | 18 | 12 |
| 6 | Ph.D. | 15 | 6 | 9 |

○ **Faculty-student ratio**

| Sr. No. | Name of Programme | Number of Students | Teacher | Ratio |
|---------|------------------------------|--------------------|---------|-------|
| 1 | M.A. Part-I | 104 | 7 | 14.85 |
| 2 | M.A. Part-II | 92 | 7 | 13.14 |
| 3 | M.A Part-I (Self-Supporting) | 59 | 7 | 8.42 |
| 4 | M.Phil | 30 | 7 | 4.28 |
| 5 | Ph.D. | 15 | 6 | 2.14 |

SHEIKH ZAYED ISLAMIC CENTRE

○ **Basic enrolment**

BS Islamic Studies 390, M.Phil. 59 and Ph.D.81

○ **Gender-wise Detail**

| Classes | Male | Female | Total |
|-------------------------|------|--------|-------|
| BS Islamic Studies | 173 | 217 | 390 |
| M.Phil. Islamic Studies | 33 | 42 | 75 |
| Ph.D. Islamic Studies | 66 | 15 | 81 |



○ **Employability**

| Faculty | Employees | Ratio | Year |
|---------|-----------|-------|---------|
| 8 | 53 | 1:7 | 2017-18 |

○ **Faculty-student ratio**

| Faculty | Students | Ratio | Year |
|---------|----------|--------|---------|
| 8 | 560 | 1:72.4 | 2017-18 |

Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

- **Gender-wise Detail:** Male 1233, Female 236
- **Employability:** After LL.B Degree number of students got opportunity as Civil Judges/Attorneys/Prosecutors etc through open competition
- **Faculty-student ratio:** Teacher 1, Student 25

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

○ **Basic enrolment**

| Sr. No. | Name of Programme | No. of Seats Per Year |
|---------|---|-----------------------|
| 1 | Ph.D. in Clinical Psychology | 10 |
| 2 | MS Programme in Clinical Psychology | 20 |
| 3 | MS in Speech & Language Pathology | 30 |
| 4 | Advanced Diploma in Clinical Psychology (Morning) | 20 |
| 5 | Advanced Diploma in Clinical Psychology (Replica) | 15 |
| 6 | BS (Hons.) in Clinical Psychology | 31 |

○ **Gender-wise Detail**

| Sr. No. | Name of Programme | Male | Female | Total |
|---------|---|------|--------|-------|
| 1 | Ph.D. in Clinical Psychology | 0 | 14 | 14 |
| 2 | MS Programme in Clinical Psychology | 0 | 38 | 38 |
| 3 | MS in Speech & Language Pathology | 1 | 50 | 51 |
| 4 | Advanced Diploma in Clinical Psychology | 3 | 18 | 21 |
| 5 | Advanced Diploma in Clinical Psychology (Replica) | - | - | - |
| 6 | BS (Hons.) in Clinical Psychology | 9 | 106 | 115 |

○ **Employability**

The degree holders are appointed as Clinical Psychologists in different teaching hospitals, Pakistan Army, Private Organizations and different fields in government and private setups.

- **Faculty – student ratio:** 1:23



NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

○ **Basic Enrolment**

Total number Enroled: M.Phil= 44, Ph.D=21

○ **Gender-wise Detail**

2017

| M. Phil | | | Ph.D | | |
|---------|--------|-------|------|--------|-------|
| Male | Female | Total | Male | Female | Total |
| 19 | 25 | 44 | 09 | 12 | 21 |

○ **Employability**

Employability of the graduate from this Centre is applicable to the research, teaching, public / private sectors.

○ **Faculty-Student Ratio**

| Number of Faculty Member | Number of Students | Faculty Student Ratio |
|--------------------------|--------------------|-----------------------|
| 38 | 65 | 1.42:1 |

DEPARTMENT OF BOTANY

○ **Basic enrolment**

| Programme | Students |
|---------------------------|----------|
| | 2017-18 |
| BS | 94 |
| M.Sc. | 179 |
| MS | 90 |
| M.Phil | 80 |
| Ph.D Regular / old Scheme | 51 |
| Total | 494 |

○ **Gender-wise Detail**

| All Programmes | Male | Female |
|--|------|--------|
| Bachelor Morning 1 st Year (1 st – 2 nd Semester) | 03 | 24 |
| 2 nd Year (3 rd – 4 th Semester) | 01 | 24 |
| 3 rd Year (5 th – 6 th Semester) | 00 | 21 |
| 4 th Year (7 th – 8 th Semester) | 01 | 20 |
| Master Morning 1 st Year (1 st – 2 nd Semester) | 05 | 90 |
| 2 nd Year (3 rd - 4 th Semesters) | 04 | 80 |
| M. Phil 1 st Year (1 st – 2 nd Semester) | 06 | 39 |
| 2 nd Year (3 rd - 4 th Semester) | 06 | 29 |
| MS 1 st Year (1 st – 2 nd Semester) | 03 | 42 |
| 2 nd Year (3 rd – 4 th Semester) | 03 | 42 |
| PhD | 10 | 41 |
| Total: | 42 | 452 |



○ **Employability**

The students of the Department of Botany, University of the Punjab, Lahore got the job in the various Public/Government and Private sectors. Many students got appointed in National and International research organizations.

○ **Faculty-student ratio**

| Total Students | Faculty | Ratio |
|----------------|---------|-------|
| 494 | 12 | 41.17 |

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

○ **Basic enrolment**

| Programme | Students |
|-----------------|------------|
| BS 2014 | 33 |
| BS 2015 | 27 |
| BS 2016 | 36 |
| BS 2017 | 35 |
| M.Sc. 2016 | 35 |
| M.Sc. 2017 | 35 |
| M.S. 2016 | 16 |
| M.S. 2017/18 | 28 |
| M.Phil. 2016 | 15 |
| M.Phil. 2017/18 | 30 |
| Ph.D. 2017 | 13 |
| Ph.D. 2018 | 11 |
| PhD Others | 67 |
| Total | 381 |

○ **Gender-wise Detail [in tabulated form for all programmes]**

| | Bachelor | | | Master | | | M.S/M.Phil | | | Ph.D. | | |
|-----------------------|----------|-----|-------|--------|----|-------|------------|----|-------|-------|----|-------|
| Year/Semester | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| Session 2018 | | | | | | | 10 | 19 | 29 | 03 | 08 | 11 |
| Session 2017 | 04 | 31 | 35 | 00 | 35 | 35 | 01 | 28 | 29 | 03 | 13 | 16 |
| Session 2016 | 03 | 33 | 36 | 00 | 35 | 35 | 04 | 27 | 31 | 05 | 06 | 11 |
| Session 2015 | 03 | 24 | 27 | | | | | | | 03 | 09 | 12 |
| Session 2014 | 03 | 30 | 33 | | | | | | | 07 | 06 | 13 |
| Older than 2014 | | | | | | | | | | 10 | 18 | 28 |
| Sub-Total | 13 | 118 | 131 | 00 | 70 | 70 | 15 | 74 | 89 | 31 | 60 | 91 |
| Total Students | 381 | | | | | | | | | | | |



○ **Employability**

- The graduate and postgraduates from this department are absorbed in hospitals, diagnostic laboratories, pharmaceuticals, food industry, research organization, universities and education department.
- Our trained alumni provide technical assistance for different instrumentation to sole agents and suppliers
- Our Alumni has also set up their own diagnostic Laboratories in different cities
- Alumni has also hired in international universities and organizations.
- Many students got scholarships and positions in national and international research organizations.

○ **Faculty-student ratio**

| Students | Faculty | Ratio |
|----------|---------|--------|
| 381 | 26 | 14.6:1 |

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

○ **Basic enrolment**

- BS Physical Education
Total 125 students admitted in BS Physical Education Program
Total 50 students admitted in BS Physical Education Replica
- M.Sc. Physical Education
 - Total 58 students enrolled in Morning
 - Total 43 Students enrolled in Evening

○ **Gender-wise Detail**

- M.Sc. Physical Education
 - Morning Male: 30 Female: 28
 - Evening Male: 19 Female: 25
- BS Physical Education
 - Morning Male: 87 Female: 38
 - Replica Male: 34 Female: 16

○ **Employability**

There is 90% passed out students selected as Lecturer, Tehsil Sports Officer and PET in education department and other working in leading private organizations.

INSTITUTE OF AGRICULTURAL SCIENCES

○ **Basic enrolment**

| | |
|---------------|-----|
| BS (Hons.) | 682 |
| M.Sc. (Hons.) | 240 |
| Ph.D. | 84 |



○ **Gender-wise Detail**

| | | |
|---------------|------------|--------------|
| BS (Hons.) | 248 (Male) | 380 (Female) |
| M.Sc. (Hons.) | 121 (Male) | 119 (Female) |
| Ph.D. | 60 (Male) | 36 (Female) |

○ **Employability**

There is lot of chances for the students to search their jobs in the field of Agriculture and equal opportunities in all other related fields. Now our students are being accepted for all jobs in private and Government organizations.

○ **Faculty-student ratio**

| | |
|---------------|------|
| BS (Hons.) | 1:52 |
| M.Sc. (Hons.) | 1:11 |
| Ph.D. | 1:04 |

INSTITUTE OF APPLIED PSYCHOLOGY

○ **Basic Enrolment:**

During the academic session 2017-2018, the Institute has following basic enrolment:

| Program | Open Merit Seats | Reserved Seats | Total Seats |
|----------------------|------------------|----------------|-------------|
| BS (Morning) | 32 | 08 | 40 |
| BS (Replica) | 36 | 02 | 38 |
| M.Sc. (Morning) | 42 | 08 | 50 |
| M.Sc. (Replica) | 48 | 02 | 50 |
| M. Phil | 20 | -- | 20 |
| MS Health Psychology | 20 | -- | 20 |
| Ph.D | 10 | -- | 10 |

○ **Equity**

The admission in all the programs is done on the basis of merit.

○ **Gender-wise Detail [in tabulated form for all programmes]**

| Class | Semester | Male | Female |
|---------------|---------------|------|--------|
| BS (Morning) | Semester-I | 02 | 33 |
| | Semester-III | 03 | 34 |
| | Semester-V | 04 | 30 |
| | Semester-VII | 01 | 40 |
| BS (Replica) | Semester-I | 02 | 35 |
| | Semester-III | 04 | 33 |
| | Semester-V | 01 | 32 |
| | Semester-VIII | 00 | 36 |
| M.Sc. Morning | Semester-I | 04 | 42 |
| | Semester-III | 04 | 32 |



| | | | |
|----------------------|---------------|----|------------------|
| M.Sc. Replica | Semester-I | 08 | 37 |
| | Semester-III | 02 | 43 |
| M. Phil | Semester-I | 01 | 19 |
| | Semester-III | 03 | 13 |
| MS Health Psychology | Semester-I | 00 | 12 |
| Ph. D | Semester-I | 02 | 08 |
| | Research Work | 02 | 05 |
| | Research Work | 02 | 04 |
| | Research Work | 01 | 03 |
| | Research Work | 01 | 03 |
| Total Male 47 | | | Total Female 494 |
| Sub Total: | | | 541 |

○ **Employability**

Our graduates are serving in wider settings, i.e. Universities, Colleges, Special Education Institutes, Hospitals, NGOs, Armed Forces, Pakistan Navy and also as Consultants. Employability is quite high and they working as academicians, researchers and as private practitioners.

○ **Faculty-Student ratio**

| No. of Faculty | No. of Students | Ratio |
|-----------------------|-----------------|-------|
| Permanent Faculty =13 | 541 | 1:15 |
| Visiting Faculty =22 | | |
| Total Faculty =35 | | |

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

○ **Basic enrolment**

| Name of Program | Enrolment |
|------------------------------------|-----------|
| BS Biochemistry/ BS Biotechnology | 74 |
| M. Sc. Biochemistry/ Biotechnology | 35 |
| MS Biochemistry/ Biotechnology | 37 |
| Ph.D. Biochemistry/ Biotechnology | 07 |

○ **Gender-wise Detail**

| Regular Fee | | BS 4 Years | | | Master | | | MS | | | Ph. D. | | |
|---------------|-----------------|------------|----|-------|--------|----|-------|----|----|-------|--------|---|-------|
| Semester | | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| Part-I | 1 st | 10 | 64 | 74 | 1 | 34 | 35 | 1 | 36 | 37 | 1 | 6 | 7 |
| Part-II | 3 rd | 10 | 64 | 74 | 2 | 27 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |
| Part-III | 5 th | 4 | 41 | 45 | | | | | | | | | |
| Part-IV | 7 th | 9 | 64 | 73 | | | | | | | | | |
| Sub-Total (i) | | 36 | 33 | 233 | 266 | 3 | 61 | 64 | 1 | 36 | 37 | 1 | 6 |



○ **Employability**

On account of high-class training provided, our graduates are highly competitive with others in the job market. Excellent career opportunities therefore await the graduates qualifying from this Institute. Our alumni are working in ICI, LUMS, Punjab forensic agency, different research organizations like CEMB, PCSIR, Food industry, Fermentation industry, Drug testing laboratories, Hospitals, Diagnostic labs, Colleges through Punjab Public Service Commission, Pharmaceutical industry and a number of Foreign universities as researcher and faculty members. The graduates of the Institute are able to fill up the existing vacuum of well-trained manpower in the sectors of agriculture, health, industry and education

○ **Faculty-student ratio**

| Class | Regular Faculty | Students | Teacher Students ratio |
|--------|-----------------|----------|------------------------|
| BS | 13 (3 on leave) | 266 | 1:20 |
| M. Sc. | 13 | 64 | 1:6 |
| MS | 10 | 37 | 1:4 |
| PhD | 9 | 7 | 1:0.8 |

SCHOOL OF BIOLOGICAL SCIENCES

○ **Basic enrolment:**

▪ **Ph.D. Students 2017**

| S # | Roll No. | Students Name |
|-----|--------------|-----------------|
| 1. | Ph.D-BS01F17 | Saba Fatima |
| 2. | Ph.D-BS02F17 | Muhammad Umair |
| 3. | Ph.D-BS03F17 | Mahak Fatima |
| 4. | Ph.D-BS04F17 | Musadiq Ali |
| 5. | Ph.D-BS05F17 | Iqra Qadir |
| 6. | Ph.D-BS06F17 | Anum Shafique |
| 7. | Ph.D-BS07F17 | Ayesha Siddiq |
| 8. | Ph.D-BS08F17 | Tanzeela Rehman |
| 9. | Ph.D-BS09F17 | Tayyaba Ishaq |

▪ **M.Phil Students 2017**

| S # | Roll No. | Students Name |
|-----|----------------|----------------------|
| 1 | M.Phil-BS01F17 | Zainab Nasir |
| 2 | M.Phil-BS02F17 | Sana Batool |
| 3 | M.Phil-BS03F17 | Maira Tariq |
| 4 | M.Phil-BS04F17 | Hina Batool |
| 5 | M.Phil-BS05F17 | Chaudhry Luqman Abid |
| 6 | M.Phil-BS06F17 | Menahil Mahmood |
| 7 | M.Phil-BS07F17 | Shaher Bano |
| 8 | M.Phil-BS08F17 | Sadia Perveen |
| 9 | M.Phil-BS09F17 | Hanfa Ashfaq |
| 10 | M.Phil-BS10F17 | Iqra Ghulam Rasool |



| | | |
|----|----------------|-----------------------------|
| 11 | M.Phil-BS11F17 | Muhammad Faisal |
| 12 | M.Phil-BS12F17 | Farwa |
| 13 | M.Phil-BS13F17 | Zunaira Munir |
| 14 | M.Phil-BS14F17 | Shagufta Zaheer |
| 15 | M.Phil-BS15F17 | Hafiza Zumra Fatima Hussain |
| 16 | M.Phil-BS16F17 | Shabhat Khan |
| 17 | M.Phil-BS17F17 | Rabia Mirza |
| 18 | M.Phil-BS18F17 | Summat Tariq |
| 19 | M.Phil-BS19F17 | Syed Nasim Abbas |
| 20 | M.Phil-BS20F17 | Ayman Saba |

■ Ph.D. Students 2018

| S # | Roll No. | Students Name |
|-----|--------------|--|
| 1. | Ph.D-BS01F18 | Mehak Shahid D/o Muhammad Shahid |
| 2. | Ph.D-BS02F18 | Hafiza Rida Farooq Chaudhary D/o Muhammad Farooq Ch. |
| 3. | Ph.D-BS03F18 | Azka Asif D/o Asif Yousaf |
| 4. | Ph.D-BS04F18 | Asif Rasheed S/o Rasheed Muhammad |
| 5. | Ph.D-BS05F18 | Sitara Nasar D/o Nasar Saeed |
| 6. | Ph.D-BS06F18 | Zahra Naz D/o Rafiq Ahmad |
| 7. | Ph.D-BS07F18 | Saira Ahmad D/o Ahmad Ali |
| 8. | Ph.D-BS08F18 | Hina Qaiser D/o Qaiser |
| 9. | Ph.D-BS09F18 | Syeda Sadia Bukhari D/o Shabbir Hussain Bukhari |
| 10. | Ph.D-BS10F18 | Mahnoor Imran D/o Imran Khawaja |
| 11. | Ph.D-BS11F18 | Maria Sohail Butt D/o Sohail Yaqoob Butt |
| 12. | Ph.D-BS12F18 | Maira Afzal D/o Muhammad Afzal |
| 13. | Ph.D-BS13F18 | Anam Iftikhar D/o Iftikhar Ahmad Khan |
| 14. | Ph.D-BS14F18 | Arisha Rasheed D/o Muhammad Rasheed |
| 15. | Ph.D-BS15F18 | Ambreen Kanwal D/o Muhammad Ajmal |

■ M.Phil Students 2017

| S # | Roll No. | Students Name |
|-----|----------------|---|
| 01. | M.Phil-BS01F18 | Sana Samson D/o Saleem Samson |
| 02. | M.Phil-BS02F18 | Hina Khan D/o Munawar Ali Khan |
| 03. | M.Phil-BS03F18 | Amna Saleem D/o Muhammad Saleem |
| 04. | M.Phil-BS04F18 | Bint-e-Zainab D/o Habib Ahmed |
| 05. | M.Phil-BS05F18 | Alishbah Sheikh D/o Azhar Iqbal |
| 06. | M.Phil-BS06F18 | Sania Razaqat D/o Razaqat Ali |
| 07. | M.Phil-BS07F18 | Rabia Ejaz D/o Ejaz Ahmed |
| 08. | M.Phil-BS08F18 | Muhammad Abdullah S/o Abdul Ghaffar |
| 09. | M.Phil-BS09F18 | Farhan Aziz S/o Irfan Ahmad |
| 10. | M.Phil-BS10F18 | Saman Sabir D/o Sabir Hussain |
| 11. | M.Phil-BS11F18 | Hafiz Shahid Ali S/o Ghulam Mustafa |
| 12. | M.Phil-BS12F18 | Asifa Maqbool D/o Muhammad Maqbool |
| 13. | M.Phil-BS13F18 | Muhammad Abdul Hannan Sodager S/o Sodager Ali |
| 14. | M.Phil-BS14F18 | Hafsa Zahid D/o Zahid Iqbal |



| | | |
|-----|----------------|-------------------------------------|
| 15. | M.Phil-BS15F18 | Shanza Zafar D/o Zafar Iqbal |
| 16. | M.Phil-BS16F18 | Maria Qamar D/o Qamar-uz-Zaman |
| 17. | M.Phil-BS17F18 | Sadia Mushtaq D/o Mushtaq Ahmed |
| 18. | M.Phil-BS18F18 | Noor-ul-Ain D/o Muhammad Arshad |
| 19. | M.Phil-BS19F18 | Zumama Khalid D/o M. Khalid Mahmood |
| 20. | M.Phil-BS20F18 | Iqra Shahid D/o Shahid Mehmood |
| 21. | M.Phil-BS21F18 | Ayesha Siddiqi D/o Rehmat Ullah |
| 22. | M.Phil-BS22F18 | Rida Fatima D/o Ali Zaheer Naqi |
| 23. | M.Phil-BS23F18 | Sana Altaf D/o Altaf Huusain |
| 24. | M.Phil-BS24F18 | Attia Rasool D/o Ghualm Rasool |
| 25. | M.Phil-BS25F18 | Afifa Butt D/o Manzoor ul Haq Butt |

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **Basic enrolment**

| Programme | 2017-18 |
|-----------|---------|
| M. Phil | 27 |
| Ph.D | 1 |

○ **Equity**

All admissions were offered purely on open merit

○ **Gender-wise Details**

| Programme | 2016-17 | |
|-----------|---------|--------|
| | Male | Female |
| M. Phil | 1 | 26 |
| Ph.D | - | 1 |

○ **Employability**

CAMB has passed out its second batch of 23 students of M.Phil session (2016-18). Out of these, some have been employed in various public and private sectors, one student got foreign Ph.D scholarship and remaining have been accommodated in Ph.D admissions locally.

○ **Faculty-student ratio:**

| Programme | 2017-18 | | |
|-----------|---------|---------|-------|
| | Student | Teacher | Ratio |
| M. Phil | 27 | 8 | 1:3 |
| Ph.D | 1 | 3 | 3:1 |



Faculty of Health Sciences

FACULTY OF HEALTH SCIENCES

○ **Basic enrolment**

| Sr. No. | Admission/ Discipline name | Duration | Number of students |
|---------|------------------------------|----------|--------------------|
| 1 | Doctor of Physiotherapy | 5 Years | 9 |
| 2 | Medical Lab. Technology | 4 Years | 9 |
| 3 | Cardiac Perfusion Technology | 4 Years | 8 |
| 4 | Medical Imaging Technology | 4 Years | 15 |
| 5 | O.T. Technology | 4 Years | 8 |
| 6 | Optometry | 4 Years | 9 |
| 7 | Dental Technology | 4 Years | 7 |
| 8 | Anesthesia Technology | 4 Years | 8 |
| | Total Amount and Students | | 73 |

○ **Gender-wise Detail:**

| Sr. No. | Admission/ Discipline name | Number of students | No. of Boys | No. of Girls |
|---------|------------------------------|--------------------|-------------|--------------|
| 1 | Medical Lab Technology | 9 | 2 | 7 |
| 2 | Medical Imaging Technology | 9 | 0 | 9 |
| 3 | Operation Theater Technology | 8 | 4 | 4 |
| 4 | Doctor of Physiotherapy | 15 | 4 | 11 |
| 5 | Cardiac Perfusion Technology | 8 | 1 | 7 |
| 6 | Optometry | 9 | 3 | 6 |
| 7 | Dental Technology | 7 | 2 | 5 |
| 8 | Anesthesia Technology | 8 | 1 | 7 |
| | Total | 73 | 17 | 56 |

Faculty of Oriental Learning

DEPARTMENT OF ARABIC

○ **Basic enrolment**

Total Enrolled Students = 212

○ **Gender-wise Detail**

Male = 87, Female = 125

○ **Faculty-student ratio**

1 Teacher = 26 Students

CONFUCIUS INSTITUTE

Confucius Institute provides scholarship to Pakistani students to learn the Chinese language and culture in different universities of China. Confucius Institute have organized scholarship in China such as; We have sent 20 students for 2 weeks in cultural camp.



Faculty of Pharmacy

UNIVERSITY COLLEGE OF PHARMACY

○ Gender-wise Detail

| Regular Pharm.D Morning Class | | | | | M.Phil | | | Ph.D | | |
|-------------------------------|----------|-----|-----|-------|--------|----|-------|------|----|-------|
| Year | Semester | M | F | Total | M | F | Total | M | F | Total |
| 1st Prof | I | 36 | 117 | 153 | 0 | 0 | 0 | 9 | 7 | 16 |
| 2nd Prof | II | 51 | 148 | 199 | 0 | 0 | 0 | 9 | 26 | 35 |
| 3rd Prof | III | 27 | 106 | 133 | 11 | 36 | 47 | 10 | 6 | 16 |
| 4th Prof | IV | 17 | 91 | 108 | 14 | 42 | 56 | 8 | 2 | 10 |
| Final Prof | V | 38 | 95 | 133 | 0 | 0 | 0 | 10 | 6 | 16 |
| Sub-Total (i) | | 169 | 557 | 726 | 25 | 78 | 103 | 46 | 47 | 93 |

| Self-support Program (Pharm.D) | | | | | M.Phil | | | Ph.D | | |
|--------------------------------|----------|-----|------|-------|--------|-----|-------|------|----|-------|
| Year | Semester | M | F | Total | M | F | Total | M | F | Total |
| 1st Prof | I | 44 | 98 | 142 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2nd Prof | II | 53 | 108 | 161 | 24 | 39 | 63 | 0 | 0 | 0 |
| 3rd Prof | III | 27 | 100 | 127 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4th Prof | IV | 24 | 98 | 122 | 17 | 26 | 43 | 0 | 0 | 0 |
| Final Prof | V | 25 | 105 | 130 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-Total (ii) | | 173 | 509 | 682 | 41 | 65 | 106 | 0 | 0 | 0 |
| Total (i+ii) | | 342 | 1066 | 1408 | 66 | 143 | 209 | 46 | 47 | 93 |

○ Employability

The College graduate have good employability. The graduate of the College are serving locally as well as internationally.

○ Faculty-student ratio

▪ Pharm-D (Morning Class)

| Teachers | Students | Ratio |
|----------|----------|-------|
| 32 | 726 | 22.68 |

▪ Pharm-D (Evening Class)

| Teachers | Students | Ratio |
|----------|----------|-------|
| 32 | 782 | 24.43 |

▪ M. Phil

| Teachers | Students | Ratio |
|----------|----------|-------|
| 23 | 103 | 3.96 |

▪ Ph.D

| Teachers | Students | Ratio |
|----------|----------|-------|
| 23 | 106 | 4.06 |



Faculty of Sciences

CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS

○ Basic enrolment

| Sr. No. | Name of Program | No. of Seats |
|---------|---|---|
| 1 | M.Phil. Solid State Physics | Total: 30 Merit: 30 Reserved: 0 |
| 2 | M.Phil. Solid State Physics (Replica) | Total: 200 Merit: 200 Reserved: 0 |
| 3 | M.Phil. Microelectronic Engineering & Semiconductor Physics | Total: 17 Merit: 17 Reserved: 0 |
| 4 | MS. Nanotechnology | Total: 13 Merit: 13 Reserved: 0 |
| 5 | Ph.D. | Total: 5 Merit: 5 Reserved: 0 |

○ Gender-wise Detail

| Sr. No. | Session | Programme | Gender Wise | | Total |
|---------|-----------|--|-------------|--------|-------|
| | | | Male | Female | |
| 1 | 2016-18 | M.Phil. Solid State Physics | 15 | 9 | 24 |
| | 2017-19 | | 14 | 11 | 25 |
| | 2018-20 | | 23 | 9 | 32 |
| 2 | 2017-19 | M.Phil. | 110 | 64 | 174 |
| | 2018-20 | Solid State Physics (Replica) | 94 | 60 | 154 |
| 3 | 2016-18 | M.Phil. | 6 | 10 | 16 |
| | 2017-19 | Microelectronic Engineering & Semiconductor Physics | 11 | 6 | 17 |
| | 2018-20 | | 10 | 7 | 17 |
| 4 | 2016-18 | MS. Nanotechnology | 6 | 4 | 10 |
| | 2017-19 | | 8 | 5 | 13 |
| | 2018-20 | | 7 | 6 | 13 |
| 5 | 2014-2019 | Ph.D. | 2 | 2 | 4 |
| | 2015-2020 | | 1 | 2 | 3 |
| | 2016-2021 | | 2 | 3 | 5 |
| | 2017-2022 | | 3 | 4 | 7 |
| | 2018-2023 | | - | 6 | 6 |



○ **Employability**

These graduates are being employed by Education departments, R&D departments and some go for Ph.D.

○ **Faculty-student ratio**

| Sr. | Teacher | Students |
|-----|-------------|-------------------------|
| 1. | 48 Teachers | 10 students per teacher |

CENTRE FOR INTEGRATED MOUNTAIN RESEARCH

○ **Basic Enrolment**

| | |
|---------------------|----|
| ▪ M.Sc. (Morning) | 52 |
| ▪ M.Phil. (Morning) | 38 |
| ▪ Ph. D. | 19 |

○ **Gender -wise Detail**

| Program | Male | Female |
|-------------------|------|--------|
| M.Sc. (Morning) | 23 | 29 |
| M.Phil. (Morning) | 20 | 18 |
| Ph. D. | 16 | 3 |
| Total | 59 | 50 |
| G. Total | 109 | |

○ **Employability**

The Centre's graduates are highly demanding and are employed in national and international organizations both in public and private sectors. These organizations include:

- Water and Power Development Authority (WAPDA)
- Pakistan Council of Research in Water Resources (PCRWR)
- International Water Management Institute (IWMI)
- Climate Change, Alternate Energy and Water Resources Institute (CAEWRI), NARC, Islamabad.
- Pakistan Agriculture Research Council (PARC), Islamabad.
- Soil Conservation Department
- Pakistan Tourism Development Cooperation
- Sustainable Tourism Foundation of Pakistan
- Urban Unit Department
- Environment Protection Agency
- Forest Department
- Pakistan Meteorological Department
- Soil Survey of Pakistan
- Survey of Pakistan
- Universities/colleges in Pakistan
- Consulting firms/NGOs as NESPAK, ACE, PES, NDC, WFF and others



○ **Faculty-Student Ratio**

| No. of Faculty | No. of Students | Ratio |
|----------------|-----------------|-------|
| 5 | 109 | 1:22 |

CENTER FOR UNDERGRADUATE STUDIES

○ **Basic Enrollment (2017-18)***

| Discipline | Students |
|------------------------|----------|
| BS (4 Years) Botany | 28 |
| BS (4 Years) Chemistry | 61 |
| BS (4 Years) Zoology | 26 |

○ **Gender-wise details**

| Discipline | Male | Female |
|------------------------|------|--------|
| BS (4 Years) Botany | 3 | 25 |
| BS (4 Years) Chemistry | 15 | 46 |
| BS (4 Years) Zoology | 5 | 21 |

*Students complete two years or four semesters at this Centre. Basic enrollment lies with each Department/Institute/College.

○ **Employability**

These students are academically able and performing well in various fields, most are in research and industries, few attempt competitive exams and serve.

○ **Faculty student Ratio**

| Discipline | Students (Currently 2 nd Semester) | Students (Currently 4 th Semester) |
|------------------------|--|--|
| BS (4 Years) Botany | 28 | 22 |
| BS (4 Years) Chemistry | 61 | 39 |
| BS (4 Years) Zoology | 26 | 23 |
| Total no. of Students | 199 | |
| Total Faculty | 10 | |

Faculty: Student ratio is 20:1

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

○ **Basic Enrolment**

Basic student enrollment at the College of Earth and Environmental Sciences in various degree programs during the academic session 2017-18 is as detailed below:

| Sr. No. | Degree Program | Total Enrollment |
|---------|--|------------------|
| 1. | BS Environmental Sciences (Morning & Evening) | 286 |
| 2. | M.Sc. Applied Hydrology (Morning) | 37 |
| 3. | M.Sc. Tourism & Hospitality Management (Morning & Evening) | 113 |
| 4. | M.Sc. Environmental Sciences (Evening) | 79 |
| 5. | MS / M.Phil. Environmental Sciences | 80 |



| | | |
|-----|----------------------------|----|
| 6. | PhD Environmental Sciences | 62 |
| 7. | M.Phil. Applied Hydrology | 30 |
| 8. | PhD Applied Hydrology | 24 |
| 9. | M.Phil. Geomatics | 50 |
| 10. | PhD Geomatics | 15 |

○ **Gender-wise Detail**

| Program / Discipline | No. of students | |
|--|-----------------|--------|
| Class/Discipline/Program | Male | Female |
| BS Morning: 1 st Semester | 08 | 28 |
| 3 rd Semester | 10 | 23 |
| 5 th Semester | 07 | 33 |
| 7 th Semester | 05 | 31 |
| BS Evening: 1 st Semester | 08 | 42 |
| 3 rd Semester | 10 | 38 |
| 5 th Semester | 03 | 29 |
| 7 th Semester | 15 | 17 |
| Class/Discipline/Program | Male | Female |
| MSc Applied Hydrology: 1 st Semester | 28 | 08 |
| 3 rd Semester | 02 | 16 |
| MSc Tourism & Hospitality Management (Morning): 1 st Semester | 13 | 08 |
| 3 rd Semester | 20 | 06 |
| MSc Tourism & Hospitality Management (Evening): 1 st Semester | 26 | 06 |
| 3 rd Semester | 29 | 05 |
| M.Sc. Environmental Sciences (Evening): 1 st Semester | 06 | 37 |
| 3 rd Semester | 15 | 21 |
| MS Environmental Sciences: 1 st Semester | 08 | 32 |
| 3 rd Semester | 04 | 36 |
| Ph.D. Environmental Science: 1 st Semester | 01 | 09 |
| 3 rd , 5 th , 7 th , 9 th , 11 th , 13 th Semester | 10 | 42 |
| MPhil Applied Hydrology: 1 st Semester | 04 | 11 |
| 3 rd Semester | 07 | 08 |
| Ph.D. Applied Hydrology: 1 st Semester | 03 | 04 |
| 3 rd , 5 th , Semester | 05 | 12 |
| MPhil Geomatics: 1st Semester | 18 | 07 |
| 3rd Semester | 15 | 10 |
| PhD Geomatics: 1st Semester | 00 | 00 |
| 3rd, 5th, Semester | 11 | 04 |

○ **Employability**

1. Environmental Protection Department (EPD)
2. WAPDA, Pakistan
3. PCRWR
4. SNGPL, Pakistan



5. Lahore Waste Management Company
6. Environmental Protection Department
7. Health & Safety Sector of Pakistan & UAE
8. WAPDA
9. Forest Department
10. WWF Pakistan
11. Research Organizations
12. Universities having Environmental Sciences Department
13. Hotels/Resorts in Pakistan & UAE
14. Industrial Organization

○ **Faculty-Student Ratio**

Presently College of Earth and Environmental Sciences has as strength of 679 students in graduate / Postgraduate degree programs and has 24 budgetary posts with total available strength of 12 permanent faculty members

Accordingly Teacher-Student ratio is: 1:52

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

○ **Basic enrolment: 1331**

○ **Gender-wise Detail**

▪ **Bachelor Degree**

| Program | | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | |
|-----------------------|---------|----------------------|----|----------------------|----|----------------------|----|----------------------|----|
| | | M | F | M | F | M | F | M | F |
| BS Statistics | Morning | 7 | 51 | 7 | 44 | 5 | 40 | 11 | 42 |
| | Replica | 29 | 31 | 12 | 37 | 17 | 41 | -- | -- |
| | Evening | - | - | - | - | - | - | - | - |
| BS Operation Research | Morning | 19 | 31 | - | - | - | - | - | - |
| | Replica | 25 | 21 | - | - | - | - | - | - |
| | Evening | - | - | - | - | - | - | - | - |
| BS Actuarial Science | Morning | 23 | 32 | - | - | - | - | - | - |
| | Replica | 24 | 22 | - | - | - | - | - | - |
| | Evening | - | - | - | - | - | - | - | - |

▪ **Master Degree**

| | 1 st Year | | 2 nd Year | |
|-------------------------|----------------------|----|----------------------|----|
| | M | F | M | F |
| MORNING | | | | |
| M.Sc. Statistics | 6 | 54 | 13 | 46 |
| M.Sc. Actuarial Science | 13 | 38 | 15 | 31 |
| REPLICA | | | | |
| M.Sc. Statistics | 17 | 45 | 20 | 46 |



| | | | | |
|-------------------------|----|----|----|----|
| M.Sc. Actuarial Science | 2 | 1 | 8 | 7 |
| EVENING | | | | |
| M.Sc. Biostatistics | 7 | 15 | 5 | -- |
| MIOM | 17 | 20 | 11 | 10 |
| MBSM (2 sections) | 64 | 50 | 35 | 54 |

▪ **M.Phil Degree**

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Regular | 8 | 32 | 6 | 30 |

▪ **Ph.D. Degree**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | | 5 th Year | | 6 th Year | | 7 th Year | |
|---------|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|---|----------------------|---|
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| Regular | 1 | 5 | 3 | 5 | 3 | - | 1 | 1 | 2 | 3 | 3 | 2 | 1 | 4 |

○ **Employability**

Presently, exact data is not available, however, 30 – 40 percent of passed out graduates hunted the jobs.

○ **Faculty-student ratio**

| No. of Faculty | No. of Students | Ratio |
|---|-----------------|-------|
| 16 + 35 = 51 (Permanent / Contract & Visiting) | 1331 | 1:26 |

DEPARTMENT OF GEOGRAPHY

○ **Basic enrolment: 248**

○ **Gender-wise Detail**

| Sr. No. | Programme | Male | Female | Total |
|---------|-----------|------|--------|-------|
| 1. | BS | 57 | 67 | 124 |
| 2. | M.Sc. | 19 | 46 | 65 |
| 3. | M.Phil | 17 | 22 | 39 |
| 4. | Ph.D. | 3 | 17 | 20 |

○ **Employability**

The graduates of this department are being accommodated in various government as well as non- government organizations like education department, Census of Pakistan, Survey of Pakistan, WWF, research organizations and can perform well in PCPSC, FCPS, Urban Unit, competitive examination held by the federal and provincial governments.

○ **Faculty-student ratio**

| No. of Faculty Member | No of Students | Ratio |
|-----------------------|----------------|-------|
| 8 | 248 | 31% |



DEPARTMENT OF MATHEMATICS

- **Basic enrolment:** 458

- **Gender-wise Detail**

| Level of Education | Male | Female |
|---|------|--------|
| Bachelor Morning 1 st Year (1 st Semester) | 13 | 17 |
| 2 nd Year (3 rd Semester) | 08 | 23 |
| 3 rd Year (5 th Semester) | 04 | 25 |
| 4 th Year (7 th Semester) | 07 | 25 |
| Master Morning: [Includes executive courses as well] 16 years of Education:1 st Year | 17 | 51 |
| 2 nd Year (3 rd Semester) | 17 | 52 |
| Master Evening: 1 st Year | 0 | 0 |
| 2 nd Year | 40 | 30 |
| M. Phil.: 1 st Year(2nd Semester) | 15 | 27 |
| 2 nd Year (3 rd Semester) | 15 | 20 |
| PhD: 1 st Year (1 st Semester) | 10 | 11 |
| Already enrolled | 04 | 26 |

- **Employability**

Sixteen (18) Teaching Faculty members.

Twenty one (25) Non-teaching staff.

- **Faculty-student ratio**

| Faculty | Students |
|---------|----------|
| 18 | 460 |

DEPARTMENT OF PHYSICS

- **Gender-wise Detail**

- Bachelor Degree

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | |
|---------|----------------------|----|----------------------|----|----------------------|----|----------------------|----|
| | M | F | M | F | M | F | M | F |
| Morning | 13 | 17 | 13 | 17 | 13 | 17 | 13 | 17 |

- Master Degree

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| MORNING | 16 | 38 | 21 | 41 |

- M.Phil Degree

| | 1 st Year | | 2 nd Year | |
|-----------------------------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Regular | 09 | 16 | 05 | 20 |
| Replica Afternoon Programme | 14 | 05 | 16 | 09 |



▪ **Ph.D. Degree**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | | 5 th Year | |
|---------|----------------------|----|----------------------|----|----------------------|---|----------------------|----|----------------------|----|
| | M | F | M | F | M | F | M | F | M | F |
| Regular | - | 01 | 8 | 05 | 07 | 5 | 01 | 02 | 03 | 05 |

○ **Employability**

On average, 70% of the passing out graduates hunted their jobs after successfully completing their respective degrees.

○ **Faculty-student ratio**

| No. of Faculty | No. of Students | Ratio |
|---|-----------------|-------|
| 13+1=14 (Permanent & Contract) | 367 | 26.21 |
| 14+12=26 (Permanent, Contract & Visiting) | 367 | 14.11 |

DEPARTMENT OF SPACE SCIENCE

○ **Basic enrolment**

- BS(Morning) 32
- BS (Replica) 42
- M.Sc. 22
- M.Phil. (Morning) 23
- M.Phil (Replica) 09

○ **Gender-wise Detail**

▪ **Bachelor Degree**

| | 1 st Year | | 2 nd Year | | 3 rd Year | | 4 th Year | |
|---------|----------------------|----|----------------------|----|----------------------|----|----------------------|----|
| | M | F | M | F | M | F | M | F |
| Morning | 15 | 17 | 14 | 17 | 15 | 14 | 18 | 09 |
| Replica | 28 | 14 | 26 | 13 | | | | |

▪ **Master Degree**

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Morning | 07 | 14 | 06 | 18 |

▪ **M.Phil. Degree**

| | 1 st Year | | 2 nd Year | |
|---------|----------------------|----|----------------------|----|
| | M | F | M | F |
| Morning | 12 | 11 | 31 | 17 |
| Replica | 07 | 02 | | |

○ **Employability**

Presently, exact data is not available, however, 30 – 40 percent of passed out graduates hunted the jobs.



○ **Faculty-student ratio**

| No. of Faculty | No. of Students | Ratio |
|----------------------------------|-----------------|-------|
| 12 (Permanent) 01 on study leave | 325 | 1:27 |
| 9+10 = 19 (Permanent / visiting) | 325 | 1:17 |

INSTITUTE OF CHEMISTRY

○ **Faculty-student ratio**

| S. No | Academic Program | Semester | Intake Year 2017 | Total | Number of student per teacher |
|-------|--------------------------------------|----------|------------------|-------|-------------------------------|
| 1 | BS 4 Year Program | Semester | 46 | 222 | 9.65 |
| 2 | M.Sc Morning | Annual | 71 | 142 | 6.17 |
| 3 | M.Sc Evening/self supporting program | Annual | 84 | 168 | 7.30 |
| 4 | M.Phil Fall | Semester | 58 | 118 | 5.13 |
| 5 | M.Phil Spring | Semester | 58 | 58 | 2.52 |
| 6 | Ph.D Fall | Semester | 07 | 63 | 2.73 |
| 7 | Ph.D Spring | Semester | 15 | 17 | 0.73 |

INSTITUTE OF GEOLOGY

○ **Basic Enrollment**

| Sr. No | Name of Program | No. of Students Enrolled in 2017-18 | | Total Number of Students | | |
|--------------|--------------------------------|-------------------------------------|-----------|--------------------------|-----------|------------|
| | | Male | Female | Male | Female | Total |
| 1 | B.S. Applied Geology (Morning) | 36 | 13 | 158 | 36 | 194 |
| 2 | B.S. Applied Geology (Replica) | 35 | 10 | 164 | 24 | 188 |
| 3 | M.Phil Applied Geology | 32 | 3 | 63 | 4 | 67 |
| 4 | PhD Applied Geology | 4 | 1 | 11 | 4 | 15 |
| Total | | 107 | 27 | 396 | 68 | 464 |

○ **Employability**

Graduate of the Institute of Geology have been employed in following public and private sector organizations in the country and abroad.

- Educational Institutes, Universities and Colleges.
- Pakistan Atomic Energy Commission.
- Geological Survey of Pakistan.
- Oil and Gas Development Corporation.
- Hydrocarbon Development Institute of Pakistan.
- National Engineering Services of Pakistan.
- Water and Power Development Authority (WAPDA).



- Meteorological Department of Pakistan
 - Pakistan Mineral Development Corporation.
 - Punjab Mineral Development Corporation
 - Water & Sanitation Agency L.D.A.
 - Road Research Laboratories.
 - Azad Kashmir Mineral Development Corporation.
 - Pakistan Council for Scientific and Industrial Research.
 - Soil Survey of Pakistan.
 - Gemstone Corporation of Pakistan.
 - Resource Development Corporation.
 - Frontier Works Organization.
 - Pakistan Steel Mill.
 - State Cement Corporation
 - Ministry of Natural Resources
 - Museum of Natural History.
 - Industrial Development Finance Corporation.
 - Regional Development Bank of Pakistan.
 - EMCO
 - Ravi Glass
 - Pakistan Oil Field.
 - OxidentalPakistan.
 - Pakistan Petroleum Ltd.
 - Union Texas of Pakistan.
 - Associated Consulting Engineers.
 - Directorate of Land Reclamation.
 - PunjabLand Utilization Authority.
 - Dams Safety Organization.
 - Hydrogeology (WAPDA).
 - Hydrogeology Directorate.
 - Hydrology and Research.
 - Pakistan Council of Research in Water Resources.
 - Cone Drill.
 - Bone Master.
 - Rock Well.
 - Schlumberger International.
 - Mathtach International.
 - LASMO Oil Pakistan Limited.
 - Geo-Consultants Association
- **Faculty Students Ratio:** 27:01



PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Basic enrolment:** 2895 Total Enrolment of all programs
- **Gender-wise Detail:** Students Enrollment (Morning)

| Semester | Existing Students Enrollment | | | | | | | | | | | |
|---------------|------------------------------|------------|-------------|-----------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|
| | Bachelor | | | Master | | | M.Phil | | | Ph.D | | |
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| Fall 2017 | 234 | 80 | 314 | 26 | 28 | 54 | 57 | 34 | 91 | 3 | 2 | 5 |
| Spring 2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2016 | 250 | 89 | 339 | 23 | 18 | 41 | 52 | 44 | 96 | 6 | 5 | 11 |
| Spring 2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2015 | 195 | 95 | 290 | -- | -- | -- | -- | -- | -- | 6 | 4 | 10 |
| Spring 2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2014 | 241 | 115 | 356 | -- | -- | -- | -- | -- | -- | 7 | 7 | 14 |
| Spring 2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sub-Total (i) | 920 | 379 | 1299 | 49 | 46 | 95 | 109 | 78 | 187 | 22 | 18 | 40 |

▪ Self-supporting Program (Afternoon)

| Semester | Existing Students Enrollment | | | | | | | | | | | |
|----------------|------------------------------|------------|-------------|-----------|-----------|-----------|--------|----|-------|------|----|-------|
| | Bachelor | | | Master | | | M.Phil | | | Ph.D | | |
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| Fall 2017 | 193 | 73 | 266 | 27 | 21 | 48 | -- | -- | -- | -- | -- | -- |
| Spring 2017 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2016 | 264 | 78 | 342 | 22 | 19 | 41 | -- | -- | -- | -- | -- | -- |
| Spring 2016 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2015 | 206 | 72 | 278 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spring 2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fall 2014 | 230 | 69 | 299 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spring 2014 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sub-Total (ii) | 893 | 292 | 1185 | 49 | 40 | 89 | -- | -- | -- | -- | -- | -- |

▪ Total Students Enrolment (Morning & Afternoon)

| | Bachelor | | | Master | | | M.Phil | | | Ph.D | | |
|-------------|----------|-----|-------|--------|-----|-------|--------|----|-------|------|----|-------|
| | M | F | Total | M | F | Total | M | F | Total | M | F | Total |
| Total (i) | 962 | 400 | 1362 | 45 | 61 | 106 | 96 | 74 | 170 | 24 | 17 | 41 |
| Total (ii) | 937 | 296 | 1233 | 64 | 39 | 103 | -- | -- | 0 | -- | -- | -- |
| GRAND TOTAL | 1899 | 696 | 2595 | 109 | 100 | 209 | 96 | 74 | 170 | 24 | 17 | 41 |



○ **Employability**

Our enriched and balanced curriculum enables our graduates to meet the changing needs of employers. Every year, more than 50% of our graduates were hired before the end of their degree.

○ **Faculty-student ratio**

| Degree Programs | No. of Students | Student Teacher Ratio |
|-----------------|-----------------|-----------------------|
| BS | 2813 | 50:1 |
| M.Sc. | 184 | 3:7 |
| M. Phil/PhD | 227 | 12:1 |

SCHOOL OF PHYSICAL SCIENCES

○ **Basic enrolment**

Different researchers, faculty members & postgraduate students come to SPS to use state of the art equipments in their research projects. School of Physical Sciences is also planning to start its own admission in M. Phil & PhD in the fields of Chemistry, and Physics in upcoming years.

○ **Equity**

Students and researchers are allowed to use resources of School of Physical Sciences without any gender discrimination, race and cast.

Punjab University Gujranwala Campus

○ **Basic enrollment: 3820**

○ **Gender-wise detail: Male: 2111, Female: 1709**

| | Male (Morning) | Female (Morning) | Male (Afternoon) | Female (Afternoon) |
|-----------------------|-------------------|---------------------|---------------------|-----------------------|
| BBA (Hons) B & F | 88 | 69 | 45 | 18 |
| BBA (Hons) | 188 | 281 | 244 | 174 |
| MBA (Hons) 1.5 Year | 6 | 23 | - | - |
| B.Com. (Hons) | 256 | 189 | 308 | 116 |
| M.Com (Hons) 1.5 Year | 26 | 19 | - | - |
| M.Com. 3.5 Year | 52 | 123 | 31 | 46 |
| MPhil Commerce | 8 | 12 | - | - |
| PhD Commerce | 10 | 2 | - | - |
| MA English | 18 | 78 | 3 | 5 |
| BS. IT | 163 | 161 | 217 | 107 |
| BS. CS | 26 | 24 | 43 | 11 |
| M.Sc. IT | 18 | 71 | 22 | 66 |
| LL.B 3 Year | 132 | 44 | 90 | 20 |
| LL.B 5 Year | 117 | 50 | - | - |
| Total | 1108 | 1146 | 1003 | 563 |



- **Employability**

All the programmes at the Gujranwala Campus are professional in nature and most of the passed out students (male and female) are working at executive positions in certain national and multinational organizations.

- **Faculty Student Ratio:** One teacher for 28 students

Punjab University Jhelum Campus

- **Basic enrollment:** 2127

- **Gender-wise detail**

| Programmer | Male (Morning) | Female (Morning) | Male (Afternoon) | Female (Afternoon) |
|-------------------------------------|-------------------|---------------------|---------------------|-----------------------|
| Bachelor of Business Administration | 108 | 158 | 76 | 189 |
| Bachelor of Computer science | 123 | 145 | 70 | 200 |
| Bachelor of Commerce | 122 | 143 | 53 | 200 |
| BS Administrative Sciences | 68 | 32 | 45 | 48 |
| L.LB (3years) & L.LB 5years | 105 | 175 | 28 | 39 |

- **Employability**

Currently, Punjab University Jhelum Campus students are working in different Companies OPPO mobiles Company, Banks and others

- **Faculty Student Ratio:** One teacher for 147 Almost students (8 Teachers/1179 Students)



Chapter

6

UNIVERSITY BUILDING ECONOMIES

- *University-Industry Linkage/Collaboration*
- *New Initiatives*
- *Technology Incubation Centre*
- *Patents*
- *Internship and Placement Office*
- *Student Counseling and Career Guidance*



CHAPTER 6

University Building Economies

Faculty of Arts & Humanities

COLLEGE OF ART AND DESIGN

○ **Internship and Placement Office**

Internship is offered as requirement of the degree of BFA and MFA in a number of organizations both in Public and Private Sector such as: Lahore Zoo, Hospitals, Newspapers, Government Sector, NGOs

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **University- Industry Linkages/ Collaboration:** St. Andrews University, Scotland.

PAKISTAN STUDY CENTRE

○ **University-Industry Linkage**

The Centre is trying to play a more effective role in the promotion of academic and research collaboration with other universities, Pakistan Study Centres and other institutions. The Centre has established linkages with scholars and academicians of national and international repute.

○ **Student Counseling & Career Guidance**

The Centre has been in contact with Punjab University's Student Counseling and Career Guidance Centre.

DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

○ **University – industry linkage/ collaboration**

- Services offered under Research Wing of the French Department

- *Translation Desk – linking Academia with Industry*

The services offered under the Research Wing's Translation Desk of the French Department continued on facilitating general public and practically providing direct linkage of French Studies with contemporary Market, Industry and Society.

- *Research Projects designed to link French Studies with Market & Industry*

Final term thesis work and Research projects conducted at the French Department are designed especially with a view to link the domain of French Studies with the contemporary needs of Market and Industry. In a dual approach, the graduating student is also groomed to start his professional career and offer his services in a variety of areas, ranging from Education to Management, Business and Corporate Sector, and from Mass Communication to Social, Cultural and Anthropological Studies.



○ **New Initiatives**

French Department's Faculty Group was fully active on Social Media to ensure prompt coordination among Faculty and for instant sharing of office memos and notifications, reminders, class schedules, exam date sheet, etc.

○ **Internship and placement office**

The Department also trained a group of interns sent under Prime Minister Youth Training Scheme. Those with an excellent performance during their internship period were also recruited at the end of their internship period on the basis of their commitment and dedicated work.

○ **Student counseling and career guidance**

- As a continued initiative from previous years, the dedicated faculty of the Department continued providing guidance and solutions to solve students' problems related to everyday life issues. Ms Sabrina A. Rassool helped as Student Advisor for BS (Hons) program. As the MA Student Advisor, Ms Saira Riaz went abroad on long leave, Ms Sabrina A. Rassool efficiently substituted for her responsibilities as Student Advisor for Master program as well.
- Dr Saleha Nazeer and Ms Sabrina A. Rassool jointly conducted sessions on Career Counselling and Professional Grooming of the students.
- Parent Teacher meetings were also organized during the academic semesters to share and discuss the academic performance and intellectual progress of the students with their parents and to apprise them about their children's curricular and extra-curricular activities.

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

○ **University-Industry Linkage / Collaboration**

Continuously in contact with the public and private sector demands. Awareness raising seminars, conference and conducting research on the women & gender current issues on women & gender.

○ **Technology Incubation Centre**

30 computers having 24 hours internet facility

○ **Internship and Placement Office**

Internships: Students internship at women and gender development GOs and NGOs is an in-built component of the degree programme. Each year about 90 students are sent for two months internship in around 30 NGOs/GOs working for women/gender development.

INSTITUTE OF COMMUNICATION STUDIES

○ **Internship and placement Office**

Institute of Communication Studies offer an extensive program for internship more than 200 students gets training as an internee in the leading media and corporate organization of Pakistan.



- **Students Counseling and Career Guidance**

The function of students counseling and career guidance is performed by the coordinator of the programs. Owing to their proper guidance students get good jobs in field. Mr. Fahad Mahmood, Assistant Professor is a focal person.

INSTITUTE OF SOCIAL & CULTURAL STUDIES

- **University Industry Linkage**

MoU has been signed between University of the Punjab and Pakistan Poverty Alleviation Fund on the initiative of Institute of Social & Cultural Studies. ISCS assumes the role of representative of the university and manages the activities regarding the signed MoU.

- **Internship and Placement Office**

Internship of students is an in-built component of the curriculum taught in all the department of ISCS. This year almost 422 students were placed on internships in different national (Public and Private) as well as international organizations concerning their relevant field.

- **Student Counseling and Career Guidance**

There is a regular activity of providing counseling to students by the permanent faculty at the ISCS. Special seminars have also been organized, inviting experts from the field for providing career guidance to students.

Faculty of Commerce

HAILEY COLLEGE OF BANKING AND FINANCE

- **University Industry Linkages:** We students visited many industries
- **Construction Project:** We have a plan to build a new academic block in place of Qasim Hall and PC-I is in process.
- **Library:** We have a digital library with more than 7000 books.
- **Video Conference:** We have video conference facility in our College.

Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

- **New Initiatives**

- Launched BS – 4 Years Economics program
- Initiated research collaboration process with foreign institutes

- **Student Counseling and Career Guidance**

In order to ensure close connection with student community and to guide them in their educational and professional goals, Department of Economics usually engage faculty member as student advisor who is responsible to serve the following key duties.



- To assist students in course selection process
- To identify students strengths and weaknesses
- To manage and arrange curricular, extra-curricular and recreational activities for students
- To display an interest in development of students
- To provide career guidance

DEPARTMENT OF INFORMATION MANAGEMENT

○ **Student Counseling and Career Guidance**

Continuing Professional and Research Development Cell has been created and following formal and informal efforts are made for Student' Counseling and Career Guidance;

- New comers' formal orientation got started from 2015 and is conducted every year. They are briefed about the program, rules, procedures, facilities etc.
- Outgoing class is given a seminar on starting their career as professionals every year. Motivational speakers are regularly invited for students.

INSTITUTE OF ADMINISTRATIVE SCIENCES

At national level: We have linkages with major national and multinational organizations in order to get our graduates placed in professional organizations and create internship and placement opportunities for students enrolled in different programs. In addition, IAS or its faculty have a membership of several international and national professional bodies such as American Association of Public Administration (ASPA), Academy of Management (AoM), British Academy of Management (BAM) and COBRA Network of European Group of Public Administration, UNICEF Pakistan and Punjab Economic Research Institute (PERI).

Alumni Meetings: Our alumni body is a source of continued support for the Institute. The alumni networks that serve the leading organizations throughout the country facilitate existing students through professional interaction, internships and job placements. Alumni network reunions are regularly conducted to strengthen relationships with our stakeholders. IAS receives an overwhelming response in such reunions every year.

Internships: IAS has a very resourceful office of Career Advisory & External Linkages (CAEL). It provides internship opportunities to Masters and BS students in various public, private and civil society organizations. Besides this, it also provides the students with career opportunities in numerous organizations and conduct door step student recruitment sessions to facilitate both students as well as professional organizations.

Organizational Visits: Our students regularly visit professional organizations to get an insight of their professional practices to relate theory and practice and to strengthen the organization and university linkage. Recently, students have visited Nestle, Emirates Logistics Pvt. Ltd, Stylo Pvt. Ltd, Coca-Cola Icecek (CCI), and Kansai Paints.

Examination Section: IAS has a well-managed and active examination section, which deals with the examination related matter for all semesters (Regular/Replica/Evening), manage result declaration, viva arrangements, issue transcripts and other studentship related letters. It also deals with different organizations/banks etc. for studentship verification of their employees. IAS examination section arranges IAS Graduation Ceremony for the recently passed graduates.



Endowment Trust and Scholarships: IAS provides credence to the deserving and qualified students by assisting them financially to live up their dreams for achieving good quality higher education. The institute has launched many scholarships and financial assistance programs based on need cum merit basis. The institute ensures the provision of these services on non-discriminatory and Equal Opportunity (EO) basis. A large number of IAS Alumni members contribute to these scholarships, funds and the trust Professor Dr. Mohammad Afzal Education Trust, IAS. These are as follows:

| Regular Programs | Self- Supporting Program |
|--|--|
| <ul style="list-style-type: none"> ▪ Merit Scholarship ▪ Needy Scholarship ▪ HEC Need Based Scholarship ▪ PEEF Scholarship ▪ Somitomo Scholarship ▪ Friends Education Fund ▪ Regional and District Scholarships ▪ Prof. Dr. Masood Aslam Scholarship | <ul style="list-style-type: none"> ▪ Merit Scholarship ▪ Student Welfare Fund ▪ HEC Need based Scholarship ▪ PEEF Scholarship ▪ Dr. Afzal Education Trust |

- **Gold Medal:** IAS honors first position holders(s) of BS (Hons.) Management program with Prof. Dr. A.R. Jafri Gold Medal. Besides this, Prof. Dr. Muhammad Afzal Gold Medal is given to the position holder(s) of Master of Human Resource Management program.
- **Sports:** IAS also focuses upon the physical development of the students. It arranges annual Sports Gala and encourages students to participate in sports.
- **Total Scholarships awarded**
 - Total Merit Scholarship Allocated = 83
 - Total Needy Scholarship Allocated = 81
 - PEEF Scholarship Holders = 26
 - Financial Assistance for Self-support Students = 24

INSTITUTE OF BUSINESS ADMINISTRATION

○ **Business Incubation Centre (BIC)**

Business Incubation is a business support process that accelerates the successful development of start-up and fledgling companies by providing entrepreneurs with an array of targeted resources and services. The Business Incubation Center (BIC) operated under ORIC has been successfully transferred to Institute of Business Administration (IBA) on March 29, 2016. Successful establishment of BIC will help small businesses by helping them to survive and grow through the difficult and vulnerable early stages of development. This academic incubator will provide entrepreneurs with well-equipped laboratory, powerful computer systems, and technology expertise and subject-matter experts from the faculty. Establishment of BIC will forge a strong collaboration between the university and industry to find solutions of technological problems locally.



Facilities for Incubatees:

The following facilities are provided to incubatees at free of cost.

- Well-furnished offices.
- Internet access
- Computer systems
- Access to library
- Access to I.T Lab
- Air conditions

Incubatees:

| Incubatee Company | Contact Person | Facebook Page |
|-------------------|------------------------|--|
| ENVIRAM | Imran Niaz Khan | www.facebook.com/EnviramChemicalsLimited/ |
| Ala | Muhammad Umar Siddiqui | www.facebook.com/ALAOffer/ |

Corporate Linkages

Expanding its endeavor to promote linkages, IBA has entered into a strategic partnership with prestigious institutions, Plan9, Bank Alfalah and Meezan Bank. The purpose of these MOUs are to provide mentorship, trainings and to arrange workshops for them. The best part of these MOUs are all these services will provided at free of cost.

MOUs with IBA

Plan9:

In line with its commitment to excellence, Institute of Business Administration, University of the Punjab (IBA-PU) has entered into a partnership with Plan 9 Technology Incubator.

The Plan9 Network Partners envisions promoting entrepreneurship in Pakistan by collaborating with institutions and organizations that share the same vision. Plan9 aims to replicate its model of business incubation that is considered credible globally. It will guide network partners in implementing the model.

Bank Alfalah

The agreement comes as an extension of Bank Alfalah's recent endeavor for strengthening industry and academia by promoting mutual cooperation for creating and imparting relevant, effective and new forms of knowledge and expertise.

Meezan Bank Limited

In order to address capacity building challenges in SME Banking, Institute of Business Administration, University of the Punjab (IBA-PU) and Meezan Bank Limited are becoming strategic partners to create a synergistic effect. Both partners will collaborate to launch an MBA in "SME Banking & Entrepreneurship" in IBA, University of the Punjab which is a prestigious alma mater.



In this regard, MOU signage ceremony was held at Vice Chancellor's office, University of the Punjab on February 10, 2018 wherein high officials of both the partners were present. Prof. Dr. Shahid Kamal, Acting Vice Chancellor, University of the Punjab presided over the ceremony. Mr. Tariq Bajwa, Governor, State Bank of Pakistan graced the occasion as Chief Guest on the MOU Signage to encourage both the partners for achieving this milestone. The MOU was signed by Vice Chancellor, University of the Punjab & Mrs. Sajida Nisar, Incharge Director, IBA-PU on behalf of University of the Punjab and Mr. Irfan Siddiqui, President & CEO, Meezan Bank Limited on behalf of Meezan Bank Limited.

Entrepreneurial Activities

▪ **Invention to Innovation Summit Punjab 2018**

IBA entrepreneurship team participated in 7th Invention to Innovation Summit Punjab 2018 jointly organized by University of the Punjab in association with UMT and IRP on March 7-8, 2018.

▪ **Business Plan Competition**

IBA entrepreneurship team participated in Business Plan Competition organized by Lahore Chamber of Commerce and Industries (LCCI), Lahore held on 5 March 2018.

External Linkages & Placement Resource Centre-IBA (ELPRC)

External Linkages & Placement Resource Centre- IBA (ELPRC) is committed to helping students. To fulfil this purpose various activities like corporate exhibition, seminar and on campus recruitments by Meezan Bank Limited, Haier, State Bank of Pakistan, AIESEC, VIVO, Plan9, WWF-Pakistan etc. were scheduled.

This year 65 students of BBA Hons and MBA got jobs in distinguished national and multinational companies and 129 students from BBA Hons (Batch 2014-18 and 2015-19) got internship in well reputed companies.

On Campus Recruitment Sessions at IBA

▪ **Meezan Bank Limited**

On campus recruitment session was executed by Meezan Bank Limited followed by informative session for the position of "Personal Banking officer" on 4th October 2018. 12 students were shortlisted for post "Personal Banking Officer".

▪ **Haier Recruitment Drive:** HAIER Pakistan come to IBA for recruiting students for its MTO Program on 7 August 2018.

▪ **State Bank of Pakistan:** Microfinance awareness session State Bank of Pakistan IBA 2018 held on 27th September. This turned out to be a successful session through its two-way approach in which not only was the audience got aware of this concept but also the consultants received feedback to understand customer's psyche and concerns.

▪ **AIESEC Call Out for Informatory Session on Recruitment:** Event held on Monday 10th September 2018 to give BBA and MBA final semester students initiating steps towards engaging and developing world and how they can activate their leadership. This session gave students an idea about how they can take part in Global Exchange Programs on scholarships and without scholarships and how they can participate effectively.



- **VIVO RECRUITMENT DRIVE:** VIVO Pakistan came to IBA for recruiting students for its MTO Program on 30 August 2018.
- **Plan 9 Call Out for Informatory Session on Business start-ups:** Event held on Thursday 3rd September 2018 for giving BBA and MBA final semesters effective and innovative ideas so that they can stand along business world. This session gave idea how students can participate in Business competitions and how they can run their own businesses and different Business platforms.
- **WWF-Pakistan Eco Internship Program:** Event held on 29th November 2018 Thursday, for giving students internship opportunity and awareness regarding saving Eco System.

Internship Record 2018

- Every year our students from discipline of Marketing, Finance and Human Resource are being sent for internship to expose them to corporate environment at various national and multinational companies for 6-8 weeks under supervision and guidance of respective company personnel.
- A total of 129 students got internship through Placement Office of IBA. Following are some of the successful and distinguished companies in which students were sent to do internship.

| Sr. No. | Organization Name |
|---------|--------------------------------|
| 1 | Allied Bank Limited |
| 2 | Askari Bank Ltd |
| 3 | Atlas Honda |
| 4 | Bank Alfalah Limited |
| 5 | Brighto paints |
| 6 | Coca Cola |
| 7 | D.G. Cements |
| 8 | Dawn News |
| 9 | Descon Engg. |
| 10 | IGI Insurance |
| 11 | Habib Bank Limited |
| 12 | Meezan Bank Limited |
| 13 | Moblink Telcomm. |
| 14 | Muslim Commercial Bank Limited |
| 15 | Millat Tractors |
| 16 | National Bank of Pakistan |
| 17 | Nestle Pakistan Ltd |
| 18 | Nishat Mill |
| 19 | Orix Leasing Pakistan Ltd |
| 20 | Packages Pvt Ltd |
| 21 | Pak Suzuki Motors |
| 22 | PEL |
| 23 | Pepsi International |
| 24 | Plan9 (PITB) |
| 25 | Porsche (Cars) |



| Sr. No. | Organization Name |
|---------|--------------------------------|
| 26 | PTCL |
| 27 | Sapphire |
| 28 | Shell Pakistan (Pvt) |
| 29 | Shaukat Khanum Cancer Hospital |
| 30 | State Bank of Pakistan |
| 31 | The Bank of Punjab |
| 32 | Toyota Motors |
| 33 | Ufone |
| 34 | WAPDA House |
| 35 | |

○ **Student Counseling and Career Guidance**

The student advisor is all the time available for student counseling at IBA.

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

The Institute of Business and Information Technology is actively working on developing and strengthening the relationships between academia and industry since its inauguration. We have established an Industrial Liaison Cell at IBIT with an aim to enhance professional networking and contacts with the local industry. Many students after graduations have been placed at diversified organizations including leading banks, multinationals and private sector organizations, while many students also took admission in our MBIT via BBIT Program. We also provided continuous career counseling for our graduating students and guided them in developing resumes, interview preparations and assisted them in applying abroad for further studies. Job fair is organized in which many national and multi-national companies take part and offer jobs to our graduating batches. In the summer 156 students of BBIT (Hon.) have done internships in diversified industries and organizations throughout Pakistan

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- Linkage with LABARD
- **Internship and Placement Office**
Four Internees has been completed their internship nominated by the Government of Punjab.
- **Student Counseling and Career Guidance**
All faculty member are providing counseling and guidance services to the students.



Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

- **University-Industry Linkage/ Collaboration:** Testing of Industrial Samples
- **New Initiatives:** Initiation of M.Sc. Energy and Environmental Engineering Programmes
- **Internship and Placement Office:** No
- **Student Counseling and Career Guidance:** Yes

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

- **University industry linkage**

Department of Polymer Engineering and Technology has served the industry since day 1 and this linkage has been tried to enhance exponentially in the year 2017-18.

MoU has been signed with the industry for carrying out joint research projects. Moreover, department has also provided testing facilities to the industry for characterization of their samples.

List of industries with which department is actively worked and is working are:

- Power chemicals, Faisalabad
- Anwar Khawaja Industries
- Marjan Polymer Industries

Two MoU has been signed with industries during the year 2017-18 for joint funded research projects with

- Reliance polymer industries, Lahore
- Shafi Reso Chem Industries, Lahore

- **New initiatives**

Keeping in view of the new research and material development by new techniques, a number of new research projects have been initiated in the department of Polymer Engineering and Technology during the year 2017-18. Key projects include

- Simulation and modeling for
- Polymer process optimization
- Polymer plant designs
- Polymer material development
- Advanced composite materials
- Biomaterials
- Orthopedics implants
- Eye lenses
- Scaffolds



- Hydrogels
 - Polyurethanes
 - Separation processes
 - Water treatment
 - Bio medical applications
 - Paints and coating
 - Anti-corrosion paint
 - Adhesives
 - Baking paints
 - Water proof coatings
 - Composite and Blends
 - Fiber reinforced polymer composites for high grade applications
 - Polymer polymer composites using engineering polymers
- **Internship and Placement Office**
The department has no permanent internship and placement office however department tried to consult a number of industries to place the students in different industries.
 - **Student Counseling & Career Guidance**
During the courses and lectures special consideration is given on students counseling, building up of their communication skills and also giving information to the students about their carrier growth and potentials. Department has made special focus in collaborating with the industries and also keep on guiding the students about different organizations in which they can apply for jobs. Moreover, faculty also gave strong emphasis on the students to apply for scholarships in foreign universities for Ph.D. In this perspective department arranged special lectures to the students for their guidance how to apply for scholarship in HEC and in other universities. As a result of this a number of students are currently enrolled in universities of Germany, Korea, UK, Ireland, China and Australia.

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **University-Industry Linkage / Collaboration**
MOUs has been signed with different universities with in the country and abroad to exchange study program and also with different local research organizations e.g. PCSIR Labs, PSQCA, LCCI etc. to exchange expertise.
- **New initiatives**
 - Continual Professional Development Cell (CPDC)
 - Collaboration with SNGPL for research projects
 - Launching of short courses
 - Organization of Co-curricular activities like celebration of Serat-ul-Nabi, Quaid and Iqbal days, Independence day, resolution day, Kashmir day.



- **Technology Incubation Centre**

Faculty members are encouraged to carry out researches of commercial importance.

- **Internship and Placement Office**

At the Institute the internship is the part of curriculum and mandatory requirement to get engineering degree. Every year Institute arranges Internship programs for students in Fifth semester with the facilitation of Industry and R & D organizations.

- **Student counseling and Career guidance**

- CPDC and student advisor has mandate for student counseling and career guidance. CPDC works in close contact with industry for the recruitment and placement of the young engineers in local enterprises.
- A separate Career Counseling & Alumni office has been established. During 2016, eighteen (18) companies visited Institute for recruiting our graduates and Institute fully supported these recruitment drives.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **University-Industry Linkage / Collaboration**

- Students of the Institute regularly visit Industries in their Industrial tours.
- Industrial training of 6-8 weeks is a part of curriculum at Institute of Quality & Technology Management.

- **New Initiatives**

Laboratories have been updated according to Pakistan Engineering Council requirements.

- **Internship and Placement Office**

Internship is arranged regularly for BS industrial Engineering & Management and MSc Quality & Performance Management programs. Several companies visit from time to time to take job tests for hiring students. Job tests are also conducted by several reputed organizations to hire graduates of the institute.

- **Student counseling and Career Guidance**

Cell is present in the Institute and a teacher is in charge of this cell. Students contact the office for counseling and guidance.

SKILL DEVELOPMENT CENTRE

- **Student Counseling and Career Guidance**

The Career Development Officer at Skill Development Centre differs because of her wide-ranging training in psychology and human behavior. She has an extensive experience working with many different situations and generally talks to students regarding personal, academic and career issues. Most common crisis includes adjustment to the university ambience, indecision about course selection, family or relationship problems, as well as personal problems.



Our Career Development Officer performs following duties;

- Listens actively to students concerns
- Helps in understanding and dealing with students problems effectively
- Opens to discuss any question or concern that comes to students' minds (no matter how controversial it is)
- Takes all their small and big problems seriously.
- Maintains complete confidentiality except under extraordinary circumstances.
- Provides Individual counseling
- Takes action in Crisis drop-in for urgent concerns
- Conducts workshops
- Evaluates and follows up for mental health withdrawals
- Referrals for longer-term counseling

Academic withdrawals are provided for students at anytime during the semester who are unable to cope with the academic stress due to their mental health condition. In such a case the student petitions for withdrawal at SDC office and meets with the counselors on campus. The counselor makes an assessment of the student's condition and sends forward the approval of petition if warranted.

The counselor is available from Mondays through Friday from 8:00 am to 4:00 pm.

The counselor has an open door policy, and students can walk in anytime between office hours.

Faculty of Islamic Studies

SHEIKH ZAYED ISLAMIC CENTRE

○ **Student Counseling and Career Guidance**

Sheikh Zayed Islamic Centre is providing the Counseling and Career Guidance to the student. Dr. Ishtiaq Ahmad Gondal is the nominated students' counselor and providing career guidance to the students of the Centre.

Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

○ **Internship and Placement Office**

Associated with the senior advocates having. At least 10 years actual standing in the field of Law.

○ **Student Counseling and Career Guidance:**

- For most of the time of Faculty of Law provides counseling and career guidance to Law students. In this connection, Law Moots are arranged by the Law Moot Society under the supervision of teacher's incharge. These exercises' enhance the capacity building of



the students for future challenges and opportunities. Moreover, the subject of trial advocacy and office managements and being taught to LL.B students to make them able, how to manage office.

- The visiting teachers are also engaged by the Law College to get maximum benefits from their legal experiences. The adjunct faculty offers the interested students to work with them as an associate by keeping in view the area of interest of students. The College also make necessary arrangements in the interest of students for frequent visit of District Courts and superior Courts in Pakistan. These arrangements act as catalyst for giving them a practical view over the working and procedure of these Courts.

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

○ **Internship and Placement Office**

- Services Hospital, Lahore.
- Mayo Hospital, Lahore.
- Sir Ganga Ram Hospital, Lahore.
- Jinnah Hospital, Lahore.
- Punjab Institute of Mental Health, Lahore.
- Amin Maktab, Lahore.
- Shadab Training Institute, Lahore.
- Child Protection Bureau, Lahore.
- Social Welfare Department, Govt. of Punjab, Lahore.
- Dar-ul-Sakoon
- Dar-ul-Falah
- Chaman Institute for Special Children.
- Lahore General Hospital
- Turning Point, Lahore.
- Fountain House, Lahore.
- Fatima Memorial Hospital, Lahore.
- Living Institute for Slow Learners, CCP, PU, Lahore
- National Special Education Centre, Government of the Punjab, Lahore.

○ **Student Counseling and Career Guidance**

- Counseling and Therapeutic Services

Centre is providing counseling services as well as therapeutic for the management of Anxiety, Depression, Anger, Self Esteem, Acute and Chronic Stress, Drug, marital Problems and Adjustment Problems.



▪ **Assessment Services**

Centre is also providing assessment services related to Personality, IQ, Neuropsychological and Achievement.

▪ **Living Institute for Slow Learners (LISL)**

Living Institute for Slow Learners (LISL) is working to improve the functioning of children with special needs in the area of self-help, language, socialization, motor and cognition, to manage emotional and behavioral problems of children to enable them for inclusive education. For this purpose efforts are being done to enhance self-esteem, social skills, self-confidence and basic learning skills. Their associated and problematic behaviors are also managed in individual sessions. Management training is provided for major childhood disorders e.g. Attention Deficit Hyper Activity Disorder, Mental Retardation, Asperger's Syndrome, Autism and Learning Disorders and difficulties etc.

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

○ **University-Industry Linkage**

The Centre has collaboration with seed companies for field trials of transgenic plants and collaboration with different hospitals for medical and health related projects.

- M/s Ali Akbar Group, Bhoitian Chowk Defence Road, Off Raiwind Road, Lahore.
- M/s Aziz Group of Companies, 77 Industrial Estate-60000, Multan.
- M/s FMC United (Pvt) Ltd, 61-A, Main Gulberg, Lahore.
- M/s Four Brothers Group, 77-D/1, First Floor, Lahore Centre, Main Boulevard, Gulberg, Lahore.
- M/s AgriFarm Services, 53-C Fazal Elahi Road Near Chungi No.1, Multan.
- M/s Pioneer Seed Pakistan, 2, G-4 Canal Bank Johar Town, Lahore.
- M/s Auriga Seed Corporation, 33-Km Multan Road, Lahore
- M/s Bahar Seed Corporation, Sadiqabad
- M/s ICI Pakistan Limited, ICI House 63 Mozang Road, Lahore
- M/s Jullundur Seeds, Pvt Limited, 56-L, Model Town (Extension), Lahore
- M/s Neelum Seed Corporation, 43 Km, Chak No. 166 WB, Metla, Multan.
- M/s Sanifa Agri Services Limited, Lahore
- M/s Suncrop Group, 8-B, Industrial Estates, Multan.
- Tara Crop Sciences, PCT Limited, # 01, GII, Canal Bank Road, Johar Town, Lahore
- M/s Weal-AG Corporation, 47-A, Industrial Estates, Multan

○ **New Initiatives**

- We are in a process of making contracts with seed companies to collaborate with CEMB for transformation of genes in their elite varieties/hybrids.
- Following projects are in progress as new initiatives

| Sr. # | Name of Projects/Programmes |
|-------|--|
| 1 | Foreign Faculty and Foreign Student Hostels |
| 2 | Auditorium |
| 3 | Establishment of cGMP compliance protein purification Laboratory |
| 4 | Up gradation of Support Facilities/Amenities on the CEMB Campus |
| 5 | Expansion of Teaching in Molecular Biology |



○ **Patents**

Patent # 142243 Rao AQ, Nasir IA and Husnain T (2016). Novel Transgenic approach to decrease cost of cotton production in Pakistan. (IPO Pakistan)

○ **Internship and Placement Office**

CEMB also provide short internships in different disciplines to provide the young researchers hands on experience in basic and advance molecular biology techniques. Students from different universities every year join CEMB for internship. During 2017-2018 fifty five internees from the following institutes completed their internship program at CEMB.

- Lahore College for Women University
- Kinnaird College for Women Lahore
- University of Veterinary and Animal Science, Lahore
- Bahuddin Zakria University, Multan
- Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore.
- Arid Agriculture University, Rawalpindi
- University of Agriculture , Faisalabad
- University of Lahore, Thokar Niaz Baig, Lahore
- Government College University, Lahore
- Government College University, Faisalabad
- COMSAT Sahiwal Campus
- Institute of Biochemistry & Biotechnology IBB, UVAS, Lahore.
- Govt College Home Economics, Lahore.
- FC College University, Lahore.
- College of Earth and Environmental Science (CEES) University of Punjab
- The Islamia University, Bahawalpur.
- National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad
- Abdul Wali Khan University Mardan.

DEPARTMENT OF BOTANY

- **Student Counseling and Career Guidance:** Student Advisor provides counseling and career guidance to the students

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

○ **Internship and Placement office**

- Two students of College of Earth and Environmental Sciences (CEES), University of the Punjab, Lahore , completed internship in the department.
- One student from the Department of Botany
- One student from GC University
- Two students of University of Lahore, completed internship in the department



- Five students of Institute of Biochemistry and Biotechnology, University of Veterinary and Animal sciences, Lahore, completed internship in the Department.
- Two students from Home economics college for women, Lahore
- **Student Counseling and Career Guidance**
 - The department has formulated Character Building Society (CBS) of the students, which organizes events related to different social issues and problems. It act as a plate form for student counseling and related issues. and organized the following for student counseling
 - Weekly Board Display to create awareness against Anti-corruption in Academia
 - Celebrated Anticorruption day
 - Fire and emergency drills

INSTITUTE OF AGRICULTURAL SCIENCES

- **University-Industry Linkage/Collaboration**

We have already organized different University Industry Linkage Programme with the collaboration of:

 - Amanah Halal Research Centre (Amanah HRC)
 - Pepsi-Cola International (Pvt.) Limited
 - The Ohio State University (material transfer agreement)
 - Evoyl Group of Seed, Fertilizer and Pesticides (EGSFP)
 - Her Majesty the Queen in Right of Canada (material transfer agreement)
- **New Initiatives**
 - Transgene technology for the purpose of producing virus resistant cotton plants, Kitchen Gardening, Tunnel Farming, Germplasm trials and seed production strategies, Conservation Agriculture, To promote Food Science & Technology (Introduction & preparation of several new products in the lab, such as jam, juices, dried vegetable powders).
 - Mushroom cultivation has been started in the Institute of Agricultural Sciences and in near future spawn production will also be initiated.
 - Rice germplasm conservation and enhancement: Rice germplasm conservation and enhancement is very important and basic tool for the development of new rice varieties through different breeding approaches. We have collected more than 300 rice germplasm lines (exotic + local) from different sources to increase the production and adaptability of some exotic rice varieties:

Objectives:

 - To launch a new breeding program
 - To increase yield
 - To improve quality
 - Breeding for resistant varieties against biotic and abiotic stresses.
 - Promotion of Entrepreneurship trend and related training opportunities.



○ **Technology Incubation Center**

Production of different food products in Food Sciences centre and isolation/identification of new pathogens for the improvements of crop plants in different laboratories of the institute by using our own resources.

○ **Patents**

- Ahmad, N., Rashid, N., Haider, M. S. and Akhtar, M. (2016). Single Step Liquefaction and Saccharification of Corn Starch Using an Acidophilic, Calcium Independent and Hyperthermophilic Pullulanase. US PATENT Number US 9,340,778 B2
- **Haider, MS** (2013). Novel approach to generate wide spectrum resistance to cotton begomoviruses infecting cotton and other cultivated crops. Patent with Higher Education Commission, Islamabad, Pakistan. Submitted to Intellectual Property Organization of Pakistan (IPO), Government of Pakistan, vide receipt No.084208/LHR/18

○ **Internship and Placement Office**

Regular internship programme is being conducted and Institute has established a Placement Bureau office to deal with the business related to the availability of jobs for the graduates of IAGS.

INSTITUTE OF APPLIED PSYCHOLOGY

○ **Student Counseling and Career Guidance**

As psychologists we are sensitized to the students' psychological needs. While pursuing higher education, the students undergo a stressful and demanding time in their lives and they need help in coping with stress and optimizing their academic performance. Student Counseling and Assessment Services (SCAS) was therefore set up in 2005 at the premises of the Institute to provide counseling to university students in order to deal with their academic, emotional, social, adjustment, behavioral and other related problems. Initially the main objective of SCAS was to address the needs of Punjab University students, however owing to the increasing demand; these services were extended to the University employees. In order to facilitate and maintain the comfort level of the students, the SCAS has been moved to the premises of the University Health Centre since 2009.

Counseling services are offered by highly motivated, committed, fully trained and experienced professionals i.e. a team of clinical psychologists under the supervision of Director, Institute of Applied Psychology and Chief Medical officer, Health Centre. Ms. Sadia Shahzeb a Clinical Psychologist is supervising counseling and assessment services provided at the SCAS. SCAS can be approached to set up appointments and seek advice. Detailed information about SCAS is available at <http://pu.edu.pk/scas/> Ph No. 042-99231256.

All contacts and communication with counselor are kept completely confidential. The services also help in developing skills needed for a successful student life mainly: stress reduction and management, time management, confidence building and assertiveness skills. The SCAS also performs psychological assessment of students and employees referred by the University competent authority. Group Counseling sessions are also conducted to



address large group of students' issues such as confidence building, time management skills, assertiveness, prioritizing, interpersonal skills etc. SCAS runs awareness activities for University students in form of putting stalls, delivering orientation lectures in Departments and distribution of information leaflets. Our ultimate aim is to enable University students to maximally utilize their potentials to show outstanding academic performance in particular and to lead a healthy and quality life in general.

The number of students benefiting from counseling services has been increasing gradually and they have shown good progress.

The most commonly seen problems are listed as follows:

| Academic problems | Adjustment/relationship problems | Psychological problems | Personal |
|---|---|--|--|
| <ul style="list-style-type: none"> • Poor time management • Presentation anxiety • Lack of concentration/attention • Poor study habits. | <ul style="list-style-type: none"> • Adjustment issues in hostel • Adjustment problem in department • Problems in managing finances • Relationship problems with friends and family | <p>Mild level: Anxiety, Stress, Anger control problem, Lack of assertive skills, Lack of confidence, low self esteem</p> <p>Severe Level: Depression, suicidal ideation, Obsessive-compulsive disorder, Personality disorder, Schizophrenia, Delusional disorder</p> | <ul style="list-style-type: none"> • Self grooming, • Living habits • Inappropriate mannerism according to the social environment • Dietary habits • Sedentary life style |

▪ Referrals

The students referred to SCAS come either through self-referral, through teachers of their respective departments, through medical professionals at the Health Centre and through the University competent authority.

▪ Tasks Achieved

- Development of Time Management Planner for the University Students developed by Prof. Dr. Rukhsana Kausar & Ms. Sadia Shahzeb.
- In addition to counseling, SCAS also offers Psychological Assessment Services and many students and employees have also availed these services.
- Research collaboration with Institute of Applied Psychology, University of the Punjab Lahore.



- Community work program was organized by Institute of Applied Psychology to give awareness and orientation about psychological well-being and counseling services provided at SCAS for University students.
- Group counseling sessions were also organized in the premises of Institute of Applied Psychology for Balochi Students. Their individual problems in academics, adjustment, in language and in general were addressed in group sessions.

Psychological Scales/Tests Developed

| Sr. No. | Name of the Test | Developed by |
|---------|--|---|
| 1 | Civil Moral Disengagement Scale (CMD) | Shiba Saeed & Rukhsana Kasuar, Ph.D |
| 2 | Cricketer's Psychological Characteristic Scale | Vicor Solomon & Rukhsana Kasuar, Ph.D |
| 3 | Desensitization to Violence Scale | Ammarah Sehar & Rukhsana Kasuar, Ph.D |
| 4 | Manifestation of Dishonesty Scale (MDS) | Madiha Yasin & Rukhsana Kasuar, Ph.D |
| 5 | Maternal Concerns and Attitudes Scale for the Safety of Daughters MCA-SD | Khadija Rasheed & Rukhsana Kasuar, Ph.D |
| 6 | Maternal Concerns and Attitudes Scale for the Safety of Sons MCA-SS | Khadija Rasheed & Rukhsana Kasuar, Ph.D |
| 7 | Peak Experience of Music Scale (PEMS) | M. Faran & Rukhsana Kausar, Ph.D |
| 8 | Professional Jealousy Scale | Shahnaz Bano & Rukhsana Kasuar, Ph.D |
| 9 | Sense of Responsibility Scale | Madiha Khan & Rukhsana Kasuar, Ph.D |
| 10 | Social Adjustment Scale | Ridaul Wafa & Rukhsana Kasuar, Ph.D |
| 11 | Tolerance Scale | Moona Mansur & Rukhsana Kasuar, Ph.D |

Psychological Scales/Tests Translated:

| Sr. No. | Name of the Test | Translated by | Name of Original Author/ Authors |
|---------|--|---|--|
| 1 | Addiction Belief Scale | Rida ul Wafa & Rukhsana Kausar, Ph.D | Jeffrey A. Schaler, Ph.D., LLC |
| 2 | Adherence to Refills and Medication Scale | Farhana Nasim & Rukhsana Kausar, Ph.D | Sunil Kripalani |
| 3 | Anger Self-Report (30-Item Version) | Soulat Khan & Rukhsana Kausar, Ph.D | Frank Walkey Frank.Walkey@vuw.ac.nz |
| 4 | Belongingness and Emotional Security Scale | Iqra Yousaf, Nida Zafar & Rukhsana Kausar, Ph.D | John Hodgins |



| | | | |
|----|--|--|--|
| 5 | Body Image State Scale | Nayab Manawar, Syeda Fatima Hasnain & Rukhsana Kausar, Ph.D | Cash, Thomas F. |
| 6 | Brief Self Control Scale | Iqra Yousaf, Nida Zafar & Rukhsana Kausar, Ph.D | June P. Tangney, Roy Baumeister & Angela Luzio Boone |
| 7 | Child Perception of Interparental Conflict | Iqra Yousaf, Nida Zafar & Rukhsana Kausar, Ph.D | Frank D. Fincham |
| 8 | Cricket Mental Toughness Inventory (CMTI) | Vicor Solomon & Rukhsana Kasuar, Ph.D | Daniel Gucciardi |
| 9 | Diabetes Specific Locus of Control Scale | Farhana Nasim & Rukhsana Kausar, Ph.D | James H. Price, PhD, MPH |
| 10 | Eating Attitudes Test-26 -EAT-26 | Nasreen Ramzan & Rukhsana Kasuar, Ph.D | Garner, Olmsted, Bohr & Garfinkel janellen@unm.edu (J.E. Smith garner@river-centre.org |
| 11 | Emotional Regulation Questionnaire | Soulat Khan & Rukhsana Kausar, Ph.D | James Gross gross@stanford.edu |
| 12 | Experience in Close Relationships- Relationship Structure Questionnaire (ECR-RS) | Shehnaz Bano & Rukhsana Kausar, Ph.D | R. Chris Fraley |
| 13 | Interpersonal Reactivity Index (IRI) | Madiha & Rukhsana Kausar, P.hD | Mark Davis |
| 14 | Kaufman Domains of Creativity Scale | Syeda Fatima Hasnain, Sidra tul Muntaha & Rukhsana Kausar, Ph.D. | James C. Kaufman |
| 15 | Leisure Motivation Scale | Syeda Fatima Hasnain, Sidra tul Muntaha & Rukhsana Kausar, Ph.D. | Tom Blaschko & Idyll Arbor. |
| 16 | Perceived Devaluation Discrimination Scale | Farah Yaqoob & Rukhsana Kausar, Ph.D | Link, Bruce G. |
| 17 | Self-Harm Behavior Questionnaire | Soulat Khan & Rukhsana Kausar, Ph.D | Augustine Osman augustine.osman@utsa.edu |
| 18 | Self-Rating Scale | Soulat Khan & Rukhsana Kausar, Ph.D | Jill Hooley Jmh@Wjh.Harvard.Edu |



| | | | |
|----|--|---------------------------------------|--------------------------------------|
| 19 | The Consideration of Future Consequences Scale | Ammarah Sehar & Rukhsana Kausar, Ph.D | Alan Strathman & Jeff Joireman, Ph.D |
| 20 | The Life Effectiveness Questionnaire | Moona Mansur & Rukhsana Kausar, Ph.D | James Neill Ph.D |
| 21 | The Listening Styles Profile (LSP-16) | Shiba Saeed & Rukhsana Kasuar, Ph.D | James B. Weaver gjk9@cdc.gov |
| 22 | Treatment Self-Regulation Questionnaire | Farhana Nasim & Rukhsana Kausar, Ph.D | Edward Deci |
| 23 | Uses of Music Inventory | M. Faran & Rukhsana Kausar, Ph.D | Adrian Furnham Ph.D |

■ **Future Plans**

The future goals being decided for uplifting the services of SCAS are as follows:

1. To raise awareness about psychological health and role of SCAS through presentation at departments of the University.
2. The Heads of the departments will be requested to nominate a teacher preferably student advisor as a liaison person for students referrals and follow ups.
3. Group sessions regarding common psychological problems among students will also be conducted.
4. In collaboration with Institute of Applied Psychology & Centre for clinical Psychology Staff training program will also be provided in future in collaboration with other professionals.

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **University-Industry Linkage**

The Centre is rendering its analytical services to deal/ solve the various problems of the various industries.

○ **Internship and Placement Office**

CAMB is providing a platform to the internees. Seven internees has been completed their internship in CAMB under Prime Minister Youth Training Scheme for a period of one year. 34 students/ internees from various universities have been accommodated during 2017-18.

○ **Student Counseling & Career Guidance**

The Centre has formulated a departmental committee named "Student Advisory Committee" which is providing a student counseling and career guidance to the student. Jobs opportunities/ foreign higher studies are indicated at department's notice board. Career counseling provided by the faculty members during their lectures in line with their specialization within the country and abroad. Resultantly, two students got foreign Ph.D scholarship in Hong Kong.



Faculty of Pharmacy

UNIVERSITY COLLEGE OF PHARMACY

○ **Student Counseling and Career Guidance**

PUCP provides counseling and career Guidance to its students, through a Job Placement and Career Counseling Cell. Each class has male and female tutors which have been taken from the faculty members. The students are advised to see their tutors for any guidance. The faculty members are available to every student for this service. Often it is announced in classes when they take lecture. We have a wide diversity of faculty with expertise in several fields. Mostly students ask about the internship, job placement and Higher Education in Pharmacy or abroad. Several seminars, lectures and interaction are made on the job placement and carrier counselling for the final year students. Two dedicated persons have been assigned to look after the internship programs for Hospital Pharmacy, Clinical Pharmacy and Industrial Pharmacy. Under this program the student are provided with the aims, information and the way to obtain placement for this internship. For higher education, depending upon the expertise, the faculty members have interactions individually as well as in class to counsel their students.

Faculty of Sciences

CENTRE FOR UNDERGRADUATE STUDIES

University Building Economics

Dr. Shabnum Javed is Principal Investigator of *Aloe vera* Project (2017-2018) at Center for Undergraduate Studies, University of the Punjab. The agreement in process for Punjab University-Avanti Nutraceutical Industry linkage for the commercialization of *Aloe vera* Juice.

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

○ **University-Industry Linkage / Collaboration**

College of Earth and Environmental Sciences has signed research collaboration with various professional organizations and institutions in order to engage students for research work on Environmental Sciences, Applied Hydrology and Geomatics Studies.

○ **New Initiatives**

- Collaboration & Research Linkage with (China) Sichuan South Gas Compressor Co., Ltd. for the different biogas digesters installation in Punjab. (Ms. Mariyam Zameer).
- Collaboration with M/S Wisey's Germany for RWH (SMS) Pilot Project at the CEES.
- Collaboration with the American Rainwater Catchment System (Pakistan Chapter) to Development research innovations technologies and sharing of knowledge, and Manpower.



- Research Collaboration with TDCP Punjab, is in Progress
- MOU with DARCO Group for Research Collaboration
- MoU with National Cleaner Production Center, Pakistan for Research Collaboration
- **Internship and Placement Office**
Students of The College of Earth and Environmental Sciences are offered placements in the various collaborative organization / institutions in order to carry out research work in the areas of Environmental Sciences, Applied Hydrology and Geomatics as well as in the newly launched discipline of Occupational Health & Safety.
- **Student Counseling and Career Guidance**
The student advisor is all the time available for student counseling in the CEES

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Internship and Placement Office**
A sub-office of Internship and Placement is being run to accommodate the students of this College.
- **Student Counseling and Career Guidance**
A sub-office for 'student counseling and career guidance' is also being operational to accommodate the students of this College.

DEPARTMENT OF SPACE SCIENCE

- **Student Counseling & Career Guidance**
University of the Punjab has established an office for 'students counseling & career guidance'.

INSTITUTE OF GEOLOGY

- **University-Industry Linkage**
Institute of Geology provides consultancy services in material testing and mineral sector organization, WAPDA, NESPAK, and number of organizations in public & private sector.
- **New Initiatives**
Institute of Geology is developing research collaboration with the China University of Geosciences, Wuhan, Hubei, China.
- **Internship and Placement**
 - A number of students of the Institute of Geology got internship in OGDCL / OGTI, Islamabad; PCRWR, Lahore; NESPAK; GSP, Lahore and Road Research & Material Testing Institute, Lahore.
 - A number of students of the Institute after qualification of B.S. / M.Phil. degrees got placement in various academic and research organizations i.e. OGDCL, GSP, and various Geological firms within the country.
- **Student Counseling and Career Guidance**
Graduates of the Institute are provided guidance and career counseling by the faculty members of the Institute in line with their specialization and current scenarios in the country and abroad.



PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

Open Source Software Development

A research and development project has been conducted at PUCIT during 2008 – 2010 with the title “Integration of Open Source Software Projects in IT Education”. NU FAST and Virtual University were the other two partners of this project. A funding of PKR 37.63 million was secured from ICT R&D Fund for this project. Some of the goals and objectives of this project were:

- To provide training to IT/CS students keeping in view the requirements of their prospective employers (i.e. the software industry).
 - To allow students to learn good programming practices by reading professionally written high-quality code and by getting feedback from professionals.
 - To address (and try to resolve) the issue of the scarcity of quality CS/SE faculty in most of the universities.
 - To help software industry by providing them with the workforce that has worked on industrial strength projects, thus reducing the costs of training programs required for new inductees.
- **Internship and Placement Office**
- Since its establishment over 6 years ago, PUCIT Placement Office has played an important part in helping our graduates in availing suitable opportunities for part time and full time employment as well as paid and unpaid internships.
- **Student Counseling and Career Guidance**
- There isn't any formal channel for Student Counseling. Our Degree Supervisors and other faculty members use to give proper time to the students for their counseling.
 - To provide Career Guidance to the final year students, the Placement Office managed to arrange talks and discussion sessions by inviting experts from the leading software houses.

SCHOOL OF PHYSICAL SCIENCES

University-Industry Linkage/collaboration

School of Physical Sciences, University of the Punjab, Lahore is planning to develop industrial collaboration with different industries with the development of the projects related to physical, biochemical and molecular sciences.



Chapter

7

**STRENGTHENING PHYSICAL
INFRASTRUCTURE**

- *Development Projects (Laboratories, Libraries, etc.)*
- *Research Equipment*
- *Construction Projects*

**CHAPTER**
7**Strengthening Physical Infrastructure****Faculty of Arts & Humanities****COLLEGE OF ART & DESIGN**

- **Development Projects** (Laboratories, Libraries etc.)
We have a Computer Lab consisting 8 computers, an Art Gallery and a Library for our research scholars.

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **Development Projects** (Laboratories, Libraries, etc.)
 - The M. Phil, ELT and Linguistics sections of the Department Library have been computerized. The formation of electronic data-bank of MA English books is in progress.
 - Establishment of Departmental Computer Laboratory.

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

- **Development Projects** (Laboratories, Libraries, etc.)
The Library of Department of History contains a good collection of books, journals, reports; newspapers covering a wide-range of themes related to history had purchased 246 books & journals.
- **Research Equipment**
Three computers were purchased for office and one for library.
- **Construction Projects**
Furniture of library and office was repaired.
New furniture was purchased for office.

PAKISTAN STUDY CENTRE

- **Development projects** (Laboratories, Libraries, etc.)
The Centre's Library contains a good collection of books, journals, reports, newspapers covering a wide-range of themes related to history, politics, economy, geography, languages, culture and literature of Pakistan. There is also a sufficient collection on the South Asia, Central Asia and the Middle East. New books are being added on regular basis. The library receives more than 20 research journals covering a vast field of subjects particularly Social Sciences. The Library is also acquiring English and Urdu local newspapers.



Faculty of Behavioral & Social Sciences

DEPARTMENT OF SOCIAL WORK

- **Development Projects** (Laboratoies, Libraries, etc.)
 - Library of the Department added 539 new books on different subjects in this year.

INSTITUTE OF COMMUNICATION STUDIES

- **Development Projects**
 - Two new video cameras are added in Audio Video Lab equipment, editing system was also upgraded.

INSTITUTE OF SOCIAL & CULTURAL STUDIES

- **Development projects** (Laboratories, Libraries, etc.)

In order to upgrade the library facilities 499 number of latest books has been added in the Institutes library. The detailed status of institute's library is as follows:

| | |
|---|----------|
| Total No. of General Books | No. |
| Total No. of Reference Books | 12499 |
| Total No. of Journals Subscribed (Foreign) | 300 |
| Total No. of Journals Subscribed (Local) Gifted | 02 |
| Total No. Thesis | 05 |
| Total No. of Reports | 3000 |
| Budget provision for book | - |
| Budget provision for other library requirements | 2,50,000 |

- **Construction projects**
 - 1 Portion on western side of the Institute has been completed in 2018 in which class rooms, faculty rooms and offices includes.
 - Also on the western side of the Institute's building further construction is in progress which includes class rooms and faculty offices.

Faculty of Commerce

HAILEY COLLEGE OF COMMERCE

- **Development projects**
 - 03 computer Labs, 01 Open Shelf Library
 - Increase Class rooms capacity Building
 - Increase Capacity building of Computer labs
- **Construction Projects**
 - Plan to construct Multipurpose hall
 - Financial research Centre



Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

- **Development projects** (Laboratories, Libraries, etc.)
Services like OPAC is introduced in case of library during the reference period.
- **Construction projects**
 - No construction project was started in 2017-18.
 - Partial renovation of new graduate block was undertaken in addition to development of faculty lounge to facilitate visiting and part time faculty.
 - Female faculty rest room was added.
 - Kitchen was renovated.
 - Cabinets were made in new rooms.

DEPARTMENT OF INFORMATION MANAGEMENT

- **Development projects** (Laboratories, Libraries, etc.)
DoIM has extended its computer lab for students.
- **Construction Project**
Various additions were made to the building and physical facilities of the department.

INSTITUTE OF BUSINESS ADMINISTRATION

- **Development projects** (Laboratories, Libraries, etc.)
 - Completed of Revamping Academic block with tiles, false ceilings etc. through self-supporting fund of the institute. The estimated cost for the said work was about Rs.7 millions.
 - Continued working on construction of left over portion of new building comprising a computer lab., faculty office and class rooms through self-supporting fund of the institute. The estimated cost for the said work is about Rs. 17 millions.

IBA Computer Labs

There are two fully equipped and modern computer labs for the students at IBA, having 170 state-of-the-art computers. These labs are equipped with multimedia projectors and sound systems.

IBA Library

| Sr. No. | Description | Quantity |
|---------|---|----------|
| 1 | Total books available as on 30-09-2017 | 21,370 |
| 2 | New books added during the reporting period | 169 |
| 3 | Total book as on September 30, 2018 | 21,539 |

In addition to above books, IBA library is also regularly subscribing for 1 (one) foreign and 9 (nine) local famous journals.



Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

In the Computer Lab of the department, 16 computers (desktop) have been added.

Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

○ **Research Equipment:**

Fourier Transform Infrared Spectroscopy (FTIR), Automatic Bomb Calorimeter, Manual Bomb Calorimeter, Digital Density Meter, Digital balance.

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

○ **Development Projects**

Certain development projects have completed and following labs are established in this context

- Thermal analysis Lab
- Mechanical analysis Lab
- Polymer and material synthesis Lab
- Polymer processing Lab
- Spectroscopic Lab
- Paint and Coating Characterization Lab
- We have 1 library related to our taught courses and research projects.

○ **Research Equipments**

- Research Microscope
- Synthesis assembly
- Universal Testing Machine Floor Type
- Dynamic Mechanical Analyzer with Accessories
- Hardness Tester with different measuring ranges
- Pendulum Impact Testing Machine
- Lab Attritor
- Lab Scale Reactor
- Lab Mixing Extruder bench type
- Solution Viscometer
- High Temperature Press (Hydraulic)
- Gas permeability tester
- Ultrasonic Cleaner



- Cylindrical Mandrel Bending Tester
- Drying Time Recorder
- Wet Abrasion Scrub Tester
- Tubular Impact Tester
- Gloss Master
- Fineness Grind Gauge 0-100UMS wide
- Adjustable Film Applicators
- Hardness Tester
- Pinhole Detector
- Opacity Meter
- Spindle Viscometer
- Coating Thickness Tester
- Research Microscope
- Simultaneous Differential Scanning Calorimeter Thermo Gravimetric Analyzer (SDT Q600)
- Differential Scanning Calorimeter (DSC Q 200)
- Thermo Mechanical Analyzer (TMA Q400)
- Rheometer
- Gel Permeation Chromatograph (GPC)
- Fourier Transform Infrared Spectrophotometer (FTIR)
- Polymer Synthesis Pilot Plant
- Pervaporation Unit
- Bench Scale Reactors
- Polymer Synthesis Glass Assemblies
- Dip Goods Synthesis Plant
- Pipe Extruder
- Film Extruder
- Blow Moulding
- Injection Moulding
- Mechanical Stirrer
- Oil Bath
- Hot Plate Magnetic Stirrer
- Rotametal
- Orbital Shaker
- Glove Box

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

○ Development projects

The institute receives budget for its development projects from University of the Punjab and HEC.



○ **Research Equipments**

The institute has state of the art research labs. Upgradation of these labs is a continuous process. Postgraduate labs are adorned with state of the art Analytical and Experimental facilities:

- Automatic Density Meter
- Karl fisher Titration Apparatus
- Particle Size Analyzer
- CFBC Feeder
- Flame Photometer
- Analytical Balance
- pH meter
- Conductivity Meter
- Refractrometer
- Gas Chromatograph
- Atomic Absorption Spectrometer
- Micrometrics Chemisorb
- Rheometer
- High Performance Liquid Chromatography

○ **Construction projects**

- The faculty offices are being upgraded.
- Now department is working on an uninterrupted power supply by virtue of two generators and UPS installed. These generators have been purchased by the departmental savings and Worthy Vice Chancellor's special fund.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

○ **Development projects** (Laboratories, Libraries, etc.)

Projects are in process to equip Laboratories as per requirements of Pakistan Engineering Council.

○ **Construction Projects**

Three labs have been constructed.

Faculty of Islamic Studies

SHEIKH ZAYED ISLAMIC CENTRE

○ **Development projects** (Laboratories, Libraries, etc.)

- The Computer Lab. and the Administrative Unit of the Centre is equipped with 40 computers.
- The library of Sheikh Zayed Islamic Centre is equipped with 16020 books on the topic of Dawah, Fiqh and Sunnah by renowned authors. In the year 2017-18, 354 books were added to the library of the Centre.



Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

- **Development Projects** (Laboratories, Libraries, etc.)
College Library: The College library has recently been renovated thoroughly by the concerted efforts of Dr. Shazia Qureshi, Principal, University Law College by providing modern research technology and friendly atmosphere to the researcher, faculty members and the students.
- **Construction projects**
The College has renovated its Hall which was in deteriorated condition and has also been given the name as 'Edhi Hall'.

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

- **Development projects** (Laboratories, Libraries, etc.)
Speech and Language Pathology Lab is established to meet the Research and clinical needs of MS students.
- **Construction Projects**
Centre for Clinical Psychology Construct 1st Floor at the New Building of the Centre.

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Research Equipment**

Following Research Equipment were purchased during year 2017-2018

| Sr.No | ITEM DISCRIPTION | QTY |
|-------|---|-----|
| 1 | Incubator Shaker (Thermofisher-SHKE6000-8CE) | 1 |
| 2 | Vertical Deep freezer Dawlance | 1 |
| 3 | Nano Drop /Qubit 3 Fluorometer Cat. No. Q33216 Ser# 2321620758 | 1 |
| 4 | UVP Hight performance UV Model CSLUVTS312L(Transiluminator) | 1 |
| 5 | Biosafety Hood size 4 feet Local made by Technico Scientific | 1 |
| 6 | Microscope CX-31 Olympus made in japan Ser# 3J7896 | 1 |
| 7 | Ultra Cold Upright Freezer -86 Premium U410 Part no. U9260-0001 | 1 |
| 8 | Microwave oven Dawlance model MD4N 20 ltr size Ser# 91185 | 36 |
| 9 | Grinder GEEPAS model GCG 286 | 1 |
| 10 | Refrigerator Hair HRF-380M direct cool Ser# 203NOOTCHCMA257 | 1 |
| 11 | Power Supply For Gel Electrophorsis Unit | 1 |
| 12 | pH Meter | 4 |
| 13 | Single Chamber CO2 IR incubator Thermo Electron GmbH | 1 |
| 14 | Pipette man Neo P-2, 10, 20, 100, 200, 1000 Gilson France | 9 |



| | | |
|----|---|----|
| 15 | Pipette man P-20 Autoclavable Ser# AB0001225 | 1 |
| 16 | Pipette man p-2 adjustable 0.1-2.5ul eppendorf Ser# Q11221G | 20 |
| 17 | Pipette man p-10, P100, 1000 DARGON | 66 |
| 18 | Pipette man Neo P-20 Glassco Ser# IN003609 | 22 |
| 19 | Pipette man DLAB P-200 Ser# YM17CAE0012833 | 21 |
| 20 | 8-chanel pipette man 10-100ul eppendorf Ser# P43253G | 10 |
| 21 | Weighing balance Model DH V 300 A China | 1 |
| 22 | Metal detector | 1 |
| 23 | Heavy duty steel Utility cart | 1 |

DEPARTMENT OF BOTANY

- **Development projects** (Laboratories, Libraries, etc.)
A new research laboratory of “Plant Biotechnology” was developed in the Department of Botany, University of the Punjab, Lahore.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **Development Projects** (Laboratories, Libraries, etc.)
 - Establishment of linkages with Brighto paints with reference to microbes culture testing facilities
 - Microbes culture testing facilities to the oric , PU
 - Regular Microbiology (UK) Journal in Library
 - Regular Journal of Botany in Library
 - Regular Pakistan Journal of Zoology personally by faculty members.
- **Research Equipment**
 - Items Purchased from HEC’s National Research Program for Universities, IFS project, PSF projects and from other departmental and university research grants
 - Refrigerators, Pipettes
 - Glass ware, glass columns
 - Incubators
 - Micro Centrifuge
 - PCR
 - upgradation of general and research lab equipments
 - Spectrophotometers
 - PCR Thermocycler
- **Construction Projects**
Established basic animal house

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

- **Construction projects**
One Tennis Court constructed in 2018



INSTITUTE OF APPLIED PSYCHOLOGY

○ **Development Projects** (Laboratories, Libraries, etc.)

The Institute has state of the art experimental laboratories which are regularly upgraded with latest equipment and apparatus:

- The Institute has an animal laboratory, the first of its kind in the country which provides opportunity to students to carry out pigeon experiments in the field of learning and conditioning. The students gain firsthand experience of demonstrating principles of operant conditioning on pigeons. The students learn to house, magazine train, conditioning through various schedules of reinforcement, generalization and extinction.
- The human experimental lab is equipped with the latest apparatus to perform experiments on human memory, perception, learning, problem solving and other mental processes.
- The planning is underway for establishing a computerized cognitive experimental lab where memory and language experiments will be carried out on computers as well as a behavioural observation lab equipped with one way mirror screen and video facilities along with a fully equipped neuropsychology lab, which will set a bench mark in the history of the Applied Psychology in Pakistan.
- Keeping in mind the practical and professional needs of MS Health Psychology students, a Health Psychology Lab and Consultancy office were also established to facilitate students as well as clients.
- The Institute of Applied Psychology takes pride in having the largest collection of international and indigenous psychological tests and evaluative techniques and keeps on adding latest tests to its list. Use of psychological tests is strictly monitored and is in accordance with the international codes of ethics. The major collection of tests falls under the following categories:
 - Intelligence Scales and Tests
 - Aptitude Tests
 - Personality Inventories and Tests.
 - Adjustment Tests
 - Achievement Tests
 - Art & Social Sciences Tests
 - Diagnostic Tests
 - Behaviour Checklists
 - Language Tests
 - Neuropsychological Tests
 - Parental Stress Tests
 - Family Relation Tests
 - Interpersonal Problem Tests
 - Self-Assessment Tests



- Reading Tests
- Cognitive Functioning Tests
- Executive Functioning Tests
- Memory Tests
- Vocational Tests
- **Research Equipment**

Every year latest computers are added for the scholars of MS/MPhil and PhD. The institute also provides services of latest data analysis software for which training sessions are also arranged. Each year New Psychological tests are added to the Institute's testing lab which is one of the best testing Lab with a wide range of psychological tests for the assessment of personality, intelligence, aptitude, neurological functioning, diagnostic scales, adjustment, etc.

New and up-to-date equipment was also added to Health Psychology Lab and Consultancy office in order to facilitate students as well as clients.
- **Construction projects**

MS Health Psychology Program was started in the year 2013 therefore keeping in view the needs of practical work of MS Health Psychology trainees a Health Psychology lab was constructed with relevant equipments to fulfill the needs of MS Health Psychology students.

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

- **Research Equipment**
 - Real time PCR
 - Refrigerated Centrifuges
 - Fast protein liquid chromatography (*FPLC*) system
 - *High-performance liquid chromatography (HPLC)*
 - Gel Documentation system
 - ELISA reader
 - Fluorescent Microscope
 - Ultra-low centrifuge machine
 - Mini cold Labs
 - Nano drop

SCHOOL OF BIOLOGICAL SCIENCES

- **Development projects** (Laboratories, Libraries, etc.)

The infrastructure of School is distributed in three double storied buildings, adjacent to each other, which are provided with all fixtures and facilities of any modern Molecular Biology and Analytical Chemistry labs. Presently there are 22 functional and fully furnished laboratories with the necessary equipment for research work in the first building. The second building, which is replica of the first building, houses some specialized laboratories/facilities, for example, Animal Cell Culture, Radioactivity, Cold Room, HPLC,



Proteomics, Atomic Absorption, Maldi-Taf Mass Spectrometry, Human Growth Hormone Laboratory, Forensic Diagnostic and Research Laboratory etc., besides a small Lecture Hall. Another small building behind the new block houses a small Animal House, an Insectary and a Green House. The Third wing comprises animal cell culture and enzymology labs which is facilitated with fermenters to scale up the production of recombinant proteins / enzymes. The School has a programme of extensive formal practical training programme in Molecular Biology for researcher, faculty members and post-graduate students of this university, other universities in and outside the town in Punjab and other provinces of Pakistan, in this connection the school holds two training workshops each year, one in spring on recombinant DNA Technology and other in autumn on production and purification of recombinant protein. School is making rapid progress and is heading towards its objectives with the concerted efforts of the faculty members and the able guidance of the Director General.

○ **Research Equipment**

List of Equipments From 2017 to 2018

| Sr# | Name of Items | Make/Model | Qty | Year | Status |
|-----|---------------------------------------|---|--------|------|------------|
| 1. | Micro Centrifuge Non-Refrigerated | Model: D3024 Make: Scilogex-USA | 02Nos. | 2017 | Functional |
| 2. | Water Distillation Unit | Model: W4L Make: Favorit | 03Nos | 2017 | Functional |
| 3. | Horizontal Gel Electrophoresis System | Model:JY-SPDT | 06Nos | 2017 | Functional |
| 4. | Water Bath | Model:WNB-14 Make: Memmert | 02Nos | 2017 | Functional |
| 5. | Genetic Analyzer / Sequencer | Model:AB3500 Make: ABI | 01No | 2017 | Functional |
| 6. | Visible Spectrophotometer | Model: Vis-7220 G Make: Rayleigh | 03Nos | 2017 | Functional |
| 7. | Automated Cell Counter | Model: Counter II FL Make: Thermofisher | 01No | 2017 | Functional |
| 8. | Micro Centrifuge Refrigerated | Model:K2015R Make: Centurian. UK | 02Nos | 2017 | Functional |
| 9. | Magnetic Stirrer Hot Plate | Model: MSH-20A Make: Daihan Scientific.USA | 04Nos | 2017 | Functional |
| 10. | Orbital Shaking Incubator | Speed: 25 To 300 RPM Make: Local | 04Nos | 2017 | Functional |
| 11. | Vertical Gel Electrophoresis System | Model:MGV-202 Make: CBS Scientific USA | 06Nos | 2017 | Functional |
| 12. | Homogenizer Set | Model:OV5 Make:Velp Itly | 01No | 2017 | Functional |



| | | | | | |
|-----|-----------------------------------|---------------------------------------|--------|------|------------|
| 13. | Vacuum Pump | Model: RZ6 Make: Vacuubrand | 02Nos | 2017 | Functional |
| 14. | Sterilization System | Capacity: 30 Liters | 01No | 2017 | Functional |
| 15. | Sonicator | Model: VC750 Make: Sonics USA | 01No | 2017 | Functional |
| 16. | Automated Tissue Processor | Model: STP 120-2 Make: MYR - Spain | 01No | 2017 | Functional |
| 17. | Centrifuge Refrigerated (15,50MI) | Model: FC5718R Make: Ohaus USA | 02Nos | 2017 | Functional |
| 18. | UV/VIS Spectrophotometer | Model: CE7400S Make: Cecil . UK | 02Nos | 2018 | Functional |
| 19. | Microscope | Model: IX83P2ZF Make: Olympus | 01No | 2018 | Functional |
| 20. | Multimedia Projector | Model: EB-2255U Make: Epson | 02Nos | 2018 | Functional |
| 21. | Pippet Set | Made: Gilson France | 03sets | 2018 | Functional |

CENTRE FOR APPLIED MOLECULAR BIOLOGY

○ **Development projects** (Laboratories, Libraries, etc.)

During 2017-18 no development project was initiated, however, following allied works were carried out on the developmental site.

- Provision of library racks for the establishment of departmental library.
- Repair and renovation of the existing laboratory facilities were carried out to make the effective use of laboratory space.

Faculty of Oriental Learning

UNIVERSITY ORIENTAL COLLEGE

College Library

Oriental College Library is 2nd big library on language and literature of the University, comprising more than one lac collection including departmental Libraries:

- College Section: 46173 books
- Arabic: shifted New Campus
- Persian: 8225 books
- Urdu: 20339 books
- Ref. 3131 books
- Oriental Publications: 1206. Books

**Computer Lab**

Two combined Computer Labs for all the Teaching Departments and Institute of Languages of the College, comprises on 29 computers, the students, researchers and Teachers are facilitating with the Internet service.

Language Lab

A combined Language Lab for all the Teaching Departments of this College, is consisting of 30 heads with the facility of Audio-visual aid equipments, computer and Inter net service.

Faculty of Pharmacy**UNIVERSITY COLLEGE OF PHARMACY****○ Development Projects**

New Pharmaceutical Chemistry Research Laboratory for Postgraduates and refurbishment of pharmacognosy, physiology undergraduate have been established, renovation of other under graduate Labs, and Animal house have also been established.

○ Research Equipment

Rotary Evaporator

○ Construction projects

Tough tile flooring for College of Pharmacy.

Faculty of Sciences**CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS****○ Research Equipment**

Oven Dryer Single Door Size H4'xW3'xD2'Rack4

CENTER FOR UNDERGRADUATE STUDIES**○ Development Projects**

- Development of internal and external green belts and lawns
- Installation of multimedia projectors in two class rooms
- Functioning of Aloe Vera preservation lab

○ Research Equipment

- Installation of previously purchased equipments in laboratories

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES**○ Development projects (Laboratories, Libraries, etc.)**

Library: College of Earth and Environmental Sciences has added more than 120 New books in the library and number of books has been increased beyond 3772.



○ **Research Equipment**

The following Research Equipment were purchased in Projects.

| Sr. No. | Name of Equipment | Qty |
|---------|---|-----|
| 1 | Core-I-7 Computers | 30 |
| 2 | Chairs for Computer Lab. | 30 |
| 3 | Multimedia Projector Model Epson EB-1940W | 02 |
| 4 | Server Machine for Geomatics Laboratory | 01 |
| 5 | LED Screen | 01 |
| 6 | Bar Code Scanner | 01 |
| 7 | Digital Balance | 01 |
| 8 | Water Bath Assembly | 01 |
| 9. | pH Meter | 01 |

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Development projects** (Laboratories, Libraries, etc.)
 - The existing Computer Lab. is significantly updated by adding new & latest computers;
 - The classrooms are equipped with audio visual and projector facilities;
 - The Library of the College was computerized and computer facilities are also available in the Library;
 - A separate computer lab for the research scholars is also established in the College.
- **Construction Projects**
 - The construction work of administration block and four academic blocks have successfully completed and sifted there.

DEPARTMENT OF GEOGRAPHY

- **Development projects** (Laboratories, Libraries, etc.)
5 Labs. & One Library
- **Research Equipment**
Sound level meter and 13 computers

DEPARTMENT OF MATHEMATICS

- **Development projects** (Laboratories, Libraries, etc.)
 - i. Five Computer Labs.
 - ii. One Library
- **Research Equipment**
102 Computers
01 Multimedia



DEPARTMENT OF PHYSICS

- **Development projects** (Laboratories, Libraries, etc.)
 - The existing Computer Labs have been significantly updated by adding new & latest computers.
 - The Library of the Department has been computerized and now students can avail computer facilities in the Library.
 - A separate computer lab for the research scholars is also established in the Department.
- **Research Equipment**
 - The following research equipment/Labs are available in the Department for the M.Phil/ PhD research work.
 - XRD Lab, Computer Lab, FTIR Lab, SPS Labs.

INSTITUTE OF GEOLOGY

Development projects (Laboratories, libraries, etc.)

- Upgraded the class rooms of the Institute
- Upgraded Engineering Geology Laboratory set-up.
- Furnishing of the Geological Museum
- Upgradation of Seminar Hall

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

Development Projects (Laboratories, Libraries, etc.)

- Electronics Lab
- Open Source and E-Lancing Lab (50 Computers)
- MS-Lab Old Campus (25 Computer)
- MS-Lab New Campus (15 Computer)
- Lab-A (95 Computer)
- Lab-B (60 Computer)
- Lab-C (100 Computer)
- Lab-D (100 Computer)
- Lab-A New Campus (60 Computer)
- Lab-B New Campus (60 Computer)
- MCSE Lab (50 Computer)

○ **Research Equipment**

The following research equipment was purchased for the said tenure.

| Sr. # | Product | 2017-18 |
|-------|---------------|---------|
| 1 | Mobile Phones | 6 |
| 2 | Laptops | 11 |



- **Construction projects**

- Improvement of existing boundary wall with fixing of razor wire at PUCIT New Campus.
- Construction of tough tiles approach passage from Samsani Road to Main Gate at PUCIT New Campus.
- Construction of Prayer area at PUCIT New Campus.
- Construction of Metallic approach road at PUCIT New Campus.
- Construction of new stairs in Building B at PUCIT New Campus.
- P/L of Floor tiles at GIS Centre at PUCIT New Campus.
- Construction of new parking lot near building B at PUCIT New Campus.
- Development of play ground near main gate at PUCIT New Campus.
- Construction of boundary wall around the newly allocated land.(in progress)
- Construction of three more Stores (in Progress)

SCHOOL OF PHYSICAL SCIENCES

- **Development projects** (laboratories, Libraries, etc.)

Some projects are in progress to equip laboratories as per requirements by SPS. Advance Chemistry and Molecular Research Laboratory has been developed at SPS and all equipments are now in working condition.

- **Construction Projects**

With the induction of more M.Phil and PhD students and availability of the grants, the current infrastructure will be further expanded according to requirement for Research and teaching activities necessary for the development of the School in order to cope with future challenges of Research Innovation and Development.



Chapter

8

STRENGTHENING TECHNOLOGICAL INFRASTRUCTURE

- *Digital Library*
- *PERN*
- *Video Conferencing*
- *Campus Management Solution*
- *Web Portal*
- *Development of Online Admission System*

**CHAPTER**
8**Strengthening Technological Infrastructure****INFORMATION TECHNOLOGY CENTRE****Introduction**

Punjab University is the first public sector university in the field of IT to lay down 47 Km. long Fiber Optic Cable Network: having 74 optical fiber nodes serving all departments, hostels and Administrative Block through local area network. Now there are over 7000 state of the art computers and more than 16,000 laptops (PM, CM Laptop scheme for students) in university. Computer culture has been created.

To manage all the activities of the overall IT Infrastructure i.e. Network Development, Expansion, Maintenance/ Troubleshooting services (Network, Hardware and Software), Software Development, Database Management, Website Design & Development, online Announcement of Examination News, Notice & Results, 24-hour Internet facility, the University of the Punjab has full-fledged services department in Quaid-i-Azam/ Allama Iqbal Campus, namely the Information Technology Centre (IT Centre). This Centre is striving for the growth and evolution of new IT services in the University. Bandwidth has been gradually increased from 64Kbps to 670Mbps in Quaid-e-Azam Campus and 150Mbps in Allama Iqbal Campus against PERN2 project, 16Mbps in GIS Centre (New Campus), 16Mbps in Gujranwala Campus and 16Mbps in Jhelum Campus.

The Information Technology Centre develops and manages the computing and networking infrastructure of the University. The Centre provides computing support to all Faculty Members, Administrative Officers and Students. In addition, we serve the University's faculty members and administration needs by providing various office automation and productivity tools. We also update all the information in Punjab University website.

Details of the services provided by Information Technology Centre are as follow.

Our Services

- IP Telephony
- E-Mail
- Software Development
- Licensed Software Distribution
- Digital Library
- Networking
- Video Conferencing



- Campus Management Solution
- Web Portal Design & Development
- Maintenance Activities
- Hardware Lab

Network

IP Telephony Project (VOIP)

A project of IP TELEPHONY has been initiated and successfully implemented by Information Technology Centre in the university. Using IP phone, any employee of the University can communicate with others just like traditional telephone with much better voice quality and with the saving of their telephonic cost. This facility is totally FREE for all the university employees having IP phone. IT Centre is providing all kind of support in its installation and smooth working in the university.

IT Centre installed 232 IP phones in Administrative and Academic heads' offices. The incoming calls from any network (Mobile, PTCL, NTC etc.) are enabled on these IP phones.

IP Telephony has come of age and has proven capable of delivering cost savings and productivity increases for businesses of all sizes. In fact, the adoption of IP Telephony is gaining momentum, with primary business drivers being:

- Provide highly secure, reliable, scalable communications that take advantage of your LAN
- Lower equipment administration costs
- Lower voice costs
- Centralized network control and management
- Conference calling
- Call transfer facility
- Corporate directory
- Ability to quickly relocate phones or phone systems temporarily in an emergency

IT Centre is providing all kinds of support in managing and maintenance of this IP Telephone project and looking forward to expand this project up-to all faculty members and administrative staff to decrease the telephonic budget of Punjab University.

PERN

Networks

The University of the Punjab has the largest IT Network Infrastructure to serve the IT needs in the best and latest possible ways. The University of the Punjab has the largest Fiber Optic Cables Local Area Network involving more than 48.8KM single and multimode fiber optic cable as backbone with more than 7,000 nodes and more than 16,000 laptops, which provide intranet & internet facility between all existing departments offering E-services like Email/ Internet facilities. Previously deployed 232 VOIP IP phones over both campuses are in operation, and capable of free calls within the Campuses and enabled receiving Calls from external network (Mobile, PTCL, NTC etc.).



Internet bandwidth has been gradually increased in last few years up to 670Mbps in Quaid-e-Azam Campus, 150Mbps in Allama Iqbal Campus, 16Mbps in New Campus GIS Centre, 16Mbps in Gujranwala Campus and 16Mbps in Jhelum Campus for students, faculty members and researchers which is the highest bandwidth among any Public Sector University in Pakistan. Similarly in Allama Iqbal Campus, IT Centre has established a Server Room in College of Pharmacy, and LAN Network through Fiber Optic Cables as backbone among different departments including PUCIT, CAD and College of Pharmacy and wireless point to point link between IT Centre to Hailey College of Banking & Finance and Oriental College.

Layer 3 Core (Huawei S7700 Series) and distribution (Huawei S5700 Series) has been installed in the replacement of AT Core and Distribution switches which is capable of enabling more secure and smooth services. Following key advantages have been achieved by this replacement:

- The RIP will be replaced with Switched Routing (Inter-VLAN Routing) with better performance due to lower overheads. In this way we are going to use both Switching & Routing design benefits.
- All Virtual Local Area Network (VLANs) traffic will flow over trunk interface configured between core and distribution.
- Access Virtual Local Area Network (Access VLANs) and Switch Virtual Interface (SVI) will be configured at core and distribution switches for Routing Purpose.
- Security feature like ARP Attack, LAN Attack, etc. will be deployed at both core and distribution switches. In addition access can be block and permit for inside IP subnets using ACL.

Live IP can be assigned at core switch Ethernet interface for management and GRE tunnel translation.

PERN-2

I.T Centre is connected through PERN-2 Project, in which all leading universities of Pakistan are connected at 1Gigabit optical fiber and 10 Gigabit Optical Fiber backbones. The University of the Punjab is the LA-PoP (Local Access Point of Presence) for the PERN-2 setup for other universities in Lahore. IT Centre using 868Mbps bandwidth through PERN-2 Project in Quaid-e-Azam Campus and Allama Iqbal Campus and Jhelum Campus.

Data Centre/ Server Room

University I.T Centre (Quaid-e-Azam Campus) is equipped with the latest network and supporting hardware that includes 2500/3600/3845 Series Cisco Routers, NE20 Router, Core switch, switch blade, high-end layer 3/2 manageable and unmanageable switches, Cisco Pix Firewall 525, IBM Power Series Server in Data Centre, Proxy Servers, Web Servers, FTP Server and a DNS Server with the latest specifications round the clock with advanced level of UPS and power generator.



Nagios Monitoring Server

Nagios Monitoring server has been deployed for continuous monitoring of network nodes including important devices and systems. This system is very helpful for fault detection and its elimination. The support section continuously monitors device & systems through this and take prompt action to avoid down times. There are over 390+ nodes monitored through this monitoring server which are regularly increasing as growth in infrastructure.

Fire Alarms/ Extinguishers

Fire alarms & extinguishers have been installed in IT Centre Data Centre and Server Room to overcome any unavoidable circumstances. The alarm has been connected in security guard's room to respond quickly in case of any fire or smoke.

Wireless Network

IT Centre provides internet facility to the following departments by Wireless connectivity:

- College of Statistical and Actuarial Sciences (New Building)
- Punjab University Colony
- Department of French in Quaid-i-Azam Campus.
- Hailey College of Banking & Finance
- Oriental College
- Centre for Applied Molecular Biology
- Bachelor Male Teacher Hostel (BMT)

Wi-Fi/ Wireless internet facility in the Departments/hostels

- I.T. Centre has installed Wi-Fi equipment in all Hostels to provide the Internet services to the students.
- Wi-Fi equipment installed in following Departments in last few years.
 - Department of Political Science
 - Punjab University Colony
 - Jhelum Campus.
 - Islamic center Hostel.
 - Department of Sports and Physical Education
 - College of Statistical and Actuarial Sciences New Building
 - New Building of Department of Information Management.
 - Department of Arabic.
 - Department of Sports Sciences & Physical Education.
 - Department of Mathematics.
 - Department of English Language and Literature new computer lab.
 - Department of Mosque Punjab University.
 - Router Installation in Audit Branch Admin Block.
 - Oriental College.



- New Building of Department of Textile Engineering & Technology
- Deputy Registrar Admin. II Wi-Fi
- Computer lab in Department of English language
- Department of Arabic
- Department of Sports Sciences & Physical Education
- New Building of Department of Information Management.
- Academic Branch
- Islamic Centre Wi-Fi Routers
- Institute of Chemistry Dr. Zaib ul Nisa lab
- Department of Social Work.
- Sub Engineering Office Hostel Area.
- Old Building of Mathematics Department.
- College of Engineering and Engineering Technology.
- Department of Zoology Networking Equipment.
- Child Welfare Centre.
- Gymnasium at New Campus

Achievements & Expansion In Year 2017-18

New Extension Wi-Fi/ Wireless solutions

- Faculty Hostel (Faisal Hall)
- Institute of Administrator Sciences
- Quality Assurance & Strategic Planning
- Islamic Center Hostel.
- Boys Hostel No. 02 Sir Syed Hall.
- Department of Zoology.
- Faculty of Health Sciences.
- Hazrat Khalid Bin Waleed (R.A) Hall Old Campus.
- Arabic Department director office.
- Public Relation Office Room no 14.
- Boys Hostel No 07.
- Girls Hostel No. 09.
- Girls Hostel No. 08.
- Professor M. Akhtar Hall (female)
- Department of Electrical Engineering.
- Girls Hostel NO. 10.
- Boys Hostel No. 17.
- Boys Hostel No. 19.
- Boys Hostel No. 04.
- Institute of Education and Research New Building.



- Girls Hostel No. 11.
- Faculty of Health Sciences class Room.
- Department of Political Science.
- Boys Hostel No. 14.
- Institute of Communication Studies.
- Department of Zoology networking in Library.
- Boys Hostel No. 08 Sultan Tipu Shaheed Hall.
- KhanasPur Campus.
- Child Welfare Centre
- Boys Hostel No. 11.

New Extension in UTP Cable LAN

Following new extension in the UTP Cable network/computer Labs has been completed in the current year.

- Faculty Hostel (Faisal Hall)
- Institute of Administrator Sciences
- Quality Assurance & Strategic Planning
- External Linkages Admin Block
- Faculty of Health Sciences.
- Networking French Department to BMT Hostel.
- Department of French language & Literature.
- Planning and Development Wing.
- Boys Hostel No. 02 Sir Syed Hall.
- Registration Branch Admin Block.
- Department of Zoology
- Boys Hostel No. 19.
- Hazrat Khalid Bin Waleed (R.A) Hall Old Campus.
- Transport Wing Punjab University New Campus
- Vice Chancellor Retiring Room (Admin Block)
- Boys Hostel No 07.
- Department of Electrical Engineering.
- DRA ACAD Admin Block Room No. 25.
- Girls Hostel NO. 10
- DRA 2 Room no 34.
- Quality Enhancement Cell.
- Income Section Office Admin Block.
- Institute of Communication Studies.
- Chief Engineer Office.
- Khanus Pur Campus.
- Resident Officer I office.



- Child Welfare Centre
- Centre for Applied Molecular Biology.
- Academic Branch Admin block.
- New Building of Department of Information Management.
- Department of Arabic.
- Department of Sports Sciences & Physical Education.
- New Building of Department of Textile Engineering & Technology.
- Shifting of Department of Mathematics.
- Department of English Language and Literature new computer lab.
- Dy. Treasurer II Expenditure Section.
- Networking between Expenditure Section and Cheque Section.
- Deputy Registrar Admin.II
- Department of Mosque Punjab University.
- Career Counseling & Placement Centre.
- IP Telephone in Institute of Education and Research.
- Department of History and Pak Studies.
- New Computer Lab in College of Earth and Environment Sciences.
- Chief Security Office to Assist. Treasurer Purchase.
- Boys Hostel no. 07.
- New Building of Mathematics.
- Coal Department upper portion.

Software Development Services

The Software Development section of Information Technology Centre is actively participating in development of Software Systems of the University of the Punjab. The following Software Systems were developed, implemented and are being maintained by the IT Centre software section.

Deployed Software

- MLIMS (Multilingual Library Information Management System)
 - This application has been installed and successfully implemented in 51 departmental Libraries.
- OPAC (On Line Public Access Catalog)
- Serials (Under Construction)
- Electricity & Gas Billing System
- Payroll Management System for PU Accounts Branch
- Payroll Management System for CEMB
- PU Fee Section (Accounts Branch)
- Hostel Management System
- HR Management System
- Student Record Management System
- Online Registration Portal
- Online Admissions System



ACIEVEMENTS & EXPANSION IN YEAR 2017-18

Fee Management System (Fee Section - Accounts Branch) (continued in 2018)

- Colleges Ledger w.r.t Conduct, Serial & Challan No.
- Various changes in inquiry report & excel export feature.
- Various changes in challans refund.
- Challan adjustments.
- Import breakup in bank data with relevant exceptions control.
- Defaulters list report.
- Missing serial report.
- Missing dues report.
- Import online admission challans.
- Import regular registration forms/challans.
- Branchless banking feature added (import data for bank).

Maintenance / New Additions in Payroll System for Salary Section

Some of the new features and changes made in Payroll System for Salary Section are listed below:

- Options added for adjustment of Bank Statements print-outs
- Payment of Salary Bills & Other Payments on daily basis
- Existing modules (ECR, Bills etc.) enhanced for Payments made to “Widows”
- Categorization of Bills based upon pay scales of Teachers & Employees
- Inclusion of Current & Previous Readings of Electricity & Gas bills in monthly Salary Slip
- Added new payment types for Honorarium, for better classification of payments made to the staff and faculty members
- Added the feature of exporting all kinds of payments for Expenditure Section (Accounts Office), which shows the payments made against the budget heads. The exported files are imported in software used by Expenditure section.

Working for HEC ePortal

Answering/resolving users’ queries related to HEC ePortal (used for degree attestation, scholarships applications etc.) on daily basis, as it is an on-going task. The resolution of these queries involves adding/updating information about campuses, departments & degree programs.

Maintenance of Billing System for Engineering Branch (continued in 2018)

Some of the changes made in Billing System are listed below:

- Changes made to the bills being issued to consumers

Maintenance / New Additions in Payroll System for CEMB (continued in 2018)

Some of the new features and changes made in Payroll System for CEMB are listed below:

- Payment of Salary Bills & Other Payments on daily basis



- Added the option to add/edit the picture of staff members, the picture is printed on Employee Information and Employees Listing pages

Data Management for Moodle-based Learning Management System (LMS)

The online learning management system is hosted at <http://lms.pu.edu.pk/>. Following tasks have been done in this regard:

- Creation of new accounts for Students & Faculty Members of College of Pharmacy
- Data management for courses

Students Records Management (SRM)

Administration Panel (for IT Centre)

- Program Configuration in Add/Edit Programs
- Various changes in Summary Report General (i.e. Show summary w.r.t Admitted/Re-Admitted students).
- Summary Report by Program wise with Degree Level Filter (i.e. Show summary w.r.t Admitted/Re-Admitted students).
- Summary Report by Department wise with Degree Level Filter (i.e. Show summary w.r.t Admitted/Re-Admitted students).
- New Search Filters & Criteria addition in Students List
- Export Students (Full)
- Export Students based on Search Filters
- Roll Back Registration Return feature

SRM Portal for all PU Departments:

- Provision of adding Foreigner students.
- Change Student Status Feature (i.e. Dropped, Freeze & Passed Out etc)
- New Search Filters & Criteria addition in Students List
- Summary of Added Students w.r.t Admission Session & Program
- Export Students w.r.t Admission Session & Program
- Generate Return w.r.t Admission Session

Online Admissions Portal

Administration Panel (for IT Centre):

- Online Applicants List with details and search filters.
- Online Applications List with details and search filters.
- Online Applicants/Applications Summary.
- Various changes in Open/Edit/Manage Admission Schedules & offered programs assignments.

Administration Panel (for Departments):

- Applicants/Applications List with search filters.
- Applicants/Applications Details
- Print Application Form feature.



- Export Applicants (all details added by applicant) for further merit list generation.
- Shift to SRM feature (to shift admitted applicant details in SRM systematically from Online Admissions Portal).

Admission Form for Applicants:

- Show Offered Programs List (to show list of current active offered program with all Schedules details)
- Addition of new fields in form:
 - NCC Training
 - Hafiz-e-Quran
 - PU Registration No in-case of Already Registered etc.
- Added Departments as optional field for filtration of offered programs
- Search in Offered Programs select box.
- Details of Applied program with campus, faculty, etc
- Details of Eligibility Criteria on selection of Offered Program.
- List of added Quota for selection on selection of Offered Program.
- Group Application for M.Phil & Ph.D. Chemistry specializations.
- Various UI & contents changes & addition.
- Various changes in final pdf file of Application Form.
- Resolved several queries during Admissions.

Online Registration Portal

Administration Panel for Registration Branch Officials

- Colleges Returns Report for Fee Section (to show list of colleges generated return along with fee & students details) with search filters.
- Export Colleges Returns Data along with fee and students count (male/female) for Fee Section.
- Manage users of affiliated colleges.
- Resolved several queries initiated by Registration branch, Private Candidates & Affiliated Colleges.
- Export registration returns data for PU departments, colleges, institutes & centers that is being generated in SRM.
- Department Codes configuration in SRM being used in Registration Branch
- Program Codes configuration in SRM being used in Registration Branch
- Manipulation of same codes for multiple programs in Export of registration returns.

Hostel Management System (Hall Council) (continued in 2018)

- Resolved several queries initiated by Hall Council
- Extended Software access to all hostels
- Extended Students biographical information feature.
- New reports developed
 - Hostel Statistics (New Report)
 - Department Wise (New Report)



- Overstay Students (New Report)
- Hostel Statistics Gender Wise (New Report)
- User Entry Count (New Report)

Campus Management Solution

People Soft Campus Management Solution is an ERP and is being used by world's leading universities and is in implementation phase in University of the Punjab.

IT Centre CMS Section is providing support to the different departments of University of the Punjab across all campuses in terms of training and technical support. IT Centre has its own computer lab for the Campus Management Solution, equipped with latest multimedia and computers. IT Centre is also managing the Data Centre of Campus Management Solution and providing 24/7 access to all departments.

Using this ERP, every department can easily manage the records of all the students in their departments. Also faculty members can easily manage their classes/ results using this ERP.

The main modules of this ERP are:

- Recruiting & Admissions
- Student Records
- Gradebook
- Academic Advisement
- Student Financials & Administration
- Hostel Management Solution
- Self Service (Instructor & Students)

Trainings

Training of all modules has been given to each & every department. The training videos are also available on Punjab University website for user's benefit. Moreover training in CMS is ongoing process, any department wants the training for its new staff can send their staff in IT Centre Lab. for CMS training in any working day.

CMS Helpline

This is an online portal for end users to log their queries regarding any issue they face while using CMS.

<http://111.68.103.26/home/cmshelpline/>

Queries Entertained in 2017-18

Total 54 queries have been received on CMS helpline related to CMS usage on different modules and almost all of them have been resolved. To track the query from departments a CMS helpline system has been developed. Through this any department can see the status of its query online.



| Total Queries: 34 | | |
|---------------------|---------------------|---------------------|
| Open Queries | Closed Queries | Verified Queries |
| 0 | 34 | 0 |
| Solved on Same Date | Solved on Next Date | Solved After 2 Days |
| 18 | 10 | 6 |

Web Section Services

Web Portal

The core function of the web section is to update Punjab University website (www.pu.edu.pk) and to design & develop the new portals/ websites for its departments. Web Section has been involved in all stages of the development of web sites - right from planning, design, quality control, launching to online promotion and monitoring.

PU Journals

Almost 40 departmental journals websites are designed and developed by IT Centre web-section, some of them are with the frequency of Bi-annually, annually. Around 80+ journals have been updated last year.

Achievements & Expansion in Year 2017-18

PU Website Updating

Web section entertained about more than 19,000 queries received from all the Academic and Administrative department of the university. This includes updating of Departments, Faculty Members, Academic Programs, Seminars, Merit lists, Entry test results, Conferences and Journals information from academic departments and Jobs Notices, Date-Sheets, Results, Tender Notices, Schedules and Press Release from administrative departments and many more.

Online Payment Integration

Online real time payment Integration has been implemented with (HBL) Habib Bank Pvt Ltd. Now the students can pay the dues online.

1st Alumni Reunion Website

IT Centre has designed and developed the new website for alumni of University of the Punjab. (<http://alumni.pu.edu.pk>).

Youtube Live Streaming

IT Centre has covered the live streaming of the Convocation held in Faisal Auditorium on youtube.

(<http://pu.edu.pk>).

*NCPH Conference Website*

IT Centre has covered the live streaming of the Convocation held in Faisal Auditorium on youtube.

<http://pu.edu.pk/NCPH/>

Online Admission Portal (Manual admission)

IT Centre has designed and developed the Online Admission Portal (Manual admission)

University of the Punjab.

<http://journals.pu.edu.pk/old/fee/admission>

PU admission Basic Criteria Merit Calculator

IT Centre has designed and developed Basic Criteria Merit Calculator of University of the Punjab.

<http://journals.pu.edu.pk/old/fee/basicadmission/calculator/>

Development of Confucius Institute (CIPU)

Designed and developed for Confucius Institute, University of the Punjab.

<http://pu.edu.pk/confuciusinstitute/cipu/>

PU Website New Design

IT Centre has designed and developed the new website of University of the Punjab.

(<http://pu.edu.pk>)

Development of DPCC website

Design and developed website for DPCC

Journal of Early Childhood Education

IT Centre has developed journal Management system of Journal of Early Childhood Education for IER.

<http://111.68.103.26/journals/index.php/JECE>

Journal of TALEEMAT

IT Centre has developed journal Management system of Journal of TALEEMAT for IER.

<http://111.68.103.26/journals/index.php/taleemat>



Maintenances/Facilitation Services

Achievements & expansions in Year 2017-18

Conference/seminars services

- Arrangement of “Farewell Party” Institute of Biochemistry and Biotechnology
- 1st National Conference on “Counter Balancing Politics and Aesthetics in Pakistani Literature” Department of English Literature and Languages
- “Special Lecture to The Faculty Members and Students of All Business Schools” Directorate of External Linkages
- 2 Day Conference “Addressing Diversity through Education” Department of Special Education
- 2 Days International Conference on “Changing Regional Political Dynamics in South Asia” Center for South Asian Studies
- International Seminar on “Ambedkar’s Mission of Annihilation of Caste and Present Situation” Center for South Asian Studies
- One Day Seminar Department of Economics
- Closing Ceremony “Street Art Competition”
- “ICS” 2nd Degree Awarding Ceremony
- “Mehfil -E -Mushaira” Directorate of Students Affairs
- 2 Day “International Conference on Research in Special Education” Department of Special Education
- “Training Of Polling Staff Of NA 131 Lahore IX”
- One Day National Conference of Psychology “COP 2018” Center for Clinical Psychology
- “Meezan Bank Shariah Session with PU Faculty Members” Directorate of External Linkages
- Awareness Seminar on “HEC Research Projects Under Technology Development Fund (TDF) Office of Research Innovation & Commercialization (ORIC)”
- 3 Day “2nd International Conference Information Management and Libraries (ICIML)” Department of Information Management
- 3 Day International Conference “MMG 2018” Department of Microbiology and Molecular Genetics
- One Day Seminar Center for Coal Technology
- Annual Prize Distribution for BA/BSc Annual Examination 2018
- Annual Convocation 2018
- “7th Invention to Innovation Summit 2018” ORIC
- “Annual Dinner” Institute Applied Psychology
- Seminar on “Drug Abuse Awareness” Directorate of External Linkage
- Institute of Education and Research Prize Distribution Ceremony
- “E-Rozgaar Second Batch Orientation”
- Institute of Agricultural Sciences Video link Conference
- Department of History & Pakistan Studies International Conference
- Institute of Education and Research “E-Rozgar Program of Chief Minister Punjab”



- Planning & Development Wing Standing Committee Meeting
- Quality Enhancement Cell “World Quality Day Seminar”
- Department of Botany “International Conference on Conventional and Modern Approaches in Plant Sciences”
- Department of Botany “1st International Conference on Conventional and Modern Approaches in Plant Sciences”
- Directorate of Students Affairs “Debating Competition”
- Institute of Education and Research “New Students Orientation”
- Institute of Education and Research “5th International Conference”
- Directorate of Students Affairs “135th Anniversary of the University of the Punjab”
- Department of Botany “Seminar on Doctoral and senior Research fellowship Opportunities in Germany”
- Planning & Development Wing 61st & 62nd Meeting

On Field Support Services

Total number of queries resolved during 2017-18 = 961

| Sr No. | Month | Queries Resolved |
|--------|----------------|------------------|
| 1. | October 2017 | 86 |
| 2. | November 2017 | 75 |
| 3. | December 2017 | 69 |
| 4. | January 2018 | 86 |
| 5. | February 2018 | 61 |
| 6. | March 2018 | 92 |
| 7. | April 2018 | 85 |
| 8. | May 2018 | 83 |
| 9. | June 2018 | 97 |
| 10. | July 2018 | 89 |
| 11. | August 2018 | 71 |
| 12. | September 2018 | 67 |

Microsoft Nssa Web Portal Account Services

Punjab University IT center is providing NSSA (National Student Software Accessibility) Web Portal services with Collaboration of HEC & Microsoft to all Faculty Staff and Students of the University. The entire Faculty and Students of Punjab University will now be able to get Microsoft software catalog FREE OF COST through NSSA Web Portal. NSSA is a web-based management system which enables you to make MSDNAA (Microsoft Software Developers Network Academic Alliance) software easily available to your students and faculty. In other way, this is your University's software distribution website. You can register & download available software.

<https://e5.onthehub.com/WebStore/Account/AccountDetailsRegistration.aspx?ws=6f9be4e8-e1c1-e011-ae14-f04da23e67f6&u=6778866d-13ce-e011-ae14-f04da23e67f6&JSEnabled=1>

Microsoft NSSA Portal licensed (Faculty, staff & students) issued/distributed in year 2017-18=1219



Microsoft Windows Licenses Distribution Detail

| Department | Windows 8.1 | Windows 10 Enterprise | MS office 2013 | MS Office 2016 |
|------------------------|-------------|-----------------------|----------------|----------------|
| CAMB | | 25 | | 25 |
| Gujranwala Campus | 25 | 25 | 50 | |
| IAS | | 120 | | |
| Arts and Design | 30 | 16 | | 16 |
| Skill Development Cell | | 30 | | 30 |
| Total | 55 | 216 | 50 | 71 |

Hardware Maintenance Services

Detailed Data Sheet

| Sr. No. | Month | Attend Calls /Month |
|---------|-----------------|---------------------|
| 1 | October, 2017 | 76 |
| 2 | November, 2017 | 32 |
| 3 | December, 2017 | 26 |
| 4 | January, 2018 | 82 |
| 5 | February, 2018 | 49 |
| 6 | March, 2018 | 64 |
| 7 | April, 2018 | 54 |
| 8 | May, 2018 | 58 |
| 9 | June, 2018 | 31 |
| 10 | July, 2018 | 53 |
| 11 | August, 2018 | 40 |
| 12 | September, 2018 | 48 |
| | Total | 613 |

Video Conferencing Services

<http://pu.edu.pk/page/downloads>

| Sr. No. | Date | Description (Video Conference) | Facilitated Department | Destination |
|---------|------------|---|------------------------|---------------|
| 1 | 10-10-2017 | Meeting social science experts | Applied Psychology | HEC Islamabad |
| 2 | 17-10-2017 | 200 Birthday ceremony of Sir Syed Ahmad Khan | VC-Office | HEC Islamabad |
| 3 | 06-11-2017 | Meeting between Hungarian University of Fine Arts, Budapest, Hungary and Six Pakistani Universities | VC-Office | HEC Islamabad |



| | | | | |
|----|------------|--|------------|---------------|
| 4 | 10-12-2017 | BLOCKCHAIN workshop | I.T Centre | HEC Islamabad |
| 5 | 08-12-2017 | Pakistan Huawei ICT Technical Workshop | I.T Centre | HEC Islamabad |
| 6 | 15-12-2017 | Microsoft Office Specialist (MOS) certification | I.T Centre | HEC Islamabad |
| 7 | 16-02-2018 | Steering committee meeting UET Lahore | I.T Centre | HEC Islamabad |
| 8 | 01-03-2018 | Awareness session on "Institutional Performance Evaluation - Fulfillment of Standards and Criteria | VC-Office | HEC Islamabad |
| 9 | 29-03-2018 | Third party validation of mother and child week | ISCS | G.B & AJK |
| 10 | 06-04-2018 | Meeting of Annual Grant to HEIs 2018-19 | VC-Office | HEC Islamabad |
| 11 | 09-05-2018 | 23rd Meeting of NQAC | VC-Office | HEC Islamabad |
| 12 | 22-05-2018 | Meeting of experts of sciences journals | VC-Office | HEC Islamabad |
| 13 | 17-08-2018 | Coventry University's Delegation | VC Office | HEC Islamabad |
| 14 | 08-09-2018 | Meeting of Working Group on Higher Education for 12th Five Year Plan | VC Office | HEC Islamabad |
| 15 | 11-10-2018 | universities to be invited through video con for CERN meeting | VC Office | HEC Islamabad |
| 16 | 24-10-2018 | Video Conference with President FAPUASA | VC Office | HEC Islamabad |
| 17 | 14-11-2018 | Chairman HEC with Selected candidates under Seerat Chair | VC Office | HEC Islamabad |



Faculty of Behavioral & Social Sciences

DEPARTMENT OF SOCIAL WORK

Department is working on Students Record Management

Faculty of Commerce

HAILEY COLLEGE OF BANKING AND FINANCE

- **Campus Management Solution**
Our Students data is available on CMS and SRM
- **Development of Online Admission System**
We admitted our students through online system

Faculty of Economics & Management Sciences

DEPARTMENT OF INFORMATION MANAGEMENT

- **Digital Library**
 - The teachers and students make extensive use of HEC online sources to fulfill their academic and research needs.
 - The Department has developed its own digital library which is accessible on the intranet to the faculty and researchers
- **Campus Management Solution**
The department has been entering its data in CMS and the work is in progress.
- **Development of online admission system**
We made use of the system as per requirement.

INSTITUTE OF ADMINISTRATIVE SCIENCES

Up gradation of physical infrastructure

Keeping in mind the growing need of having more class rooms and offices amid growing numbers of students and professionals, IAS has recently updated its old building by getting an additional floor constructed. This floor has two large examination halls along with 10 state of the art faculty offices to fulfill the needs of growing student body and the faculty.

Technological Infrastructure:

With the objective of making students well versed in usage of information technology and to enhance their computer literacy skills, IAS has well equipped computer laboratories which cover



an area of 4800 square feet. IAS has two well-equipped computer laboratories offering state of the art networking and IT facilities. These labs are equipped with 250 computers with latest software like MS Office, SPSS, Corel Draw, Adobe etc. Strong anti-virus software named ESCAN is installed to prevent viruses from attacking the systems. Instructions/guidelines for the users regarding safety regulations or alike have been displayed on the lab notice boards. Also we equip our students with the usage of IT by offering multiple courses throughout their stay at IAS. To enhance the research capacity of scholars, workshops for the use of research software for both quantitative and qualitative analysis are also offered on regular basis. In addition, our website is fully functional and updated regularly for on line information and services. It can be reached at: ias.pu.edu.pk

INSTITUTE OF BUSINESS ADMINISTRATION

Development of online admission system

All admissions have been made online in 2018 in IBA.

INSTITUTE OF BUSINESS AND INFORMATION TECHNOLOGY

There are more than 4341 books in the departmental library along with more than 1326 MBIT Thesis and Internship Reports. The institute is using maximum modern facilities such as computer hardware and software, internet, and multimedia equipment. The institute has three computer labs with 244 computers.

| | |
|-------------------------|---|
| Web Site: | www.ibitpu.edu.pk |
| Online Admission System | http://www.ibitpu.edu.pk/admission/ |

Faculty of Education

INSTITUTE OF EDUCATION & RESEARCH

- **Digital Library:** Partially
- **Video Conferencing:** Yes
- **Campus Management Solution:** Yes

Faculty of Engineering & Technology

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **Digital Library**

The institute is currently being benefited from the digital libraries hosted by the HEC, PU located in the main library.

- **PERN:** Faculty members are encouraged to utilize the PERN.



- **Video Conferencing**

The Institute is utilizing video conferencing facility of the university on need basis.

- **Campus management solution**

The institute has implemented the Campus Management solution for managing student enrollment and examinations. Most of the faculty members have been using Turnitin software for the publication. All MS thesis are mandatory to be tested for plagiarism by this software. All the transcripts are been generated using CMS.

- **Web Portal**

The Institute has a shared web portal with University of the Punjab.

- **Development of online admission system**

The Institute of is planning to develop online admission system to facilitate the candidates in the admission process. However, merit lists are generated collectively for all Engineering disciplines using computer software. After admission process, a CMS formulated by HEC is introduced in the Institute to notify admission lists and results announcements.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **Digital Library**

Digital Library service is available.

- **Video Conferencing** facility is available in the University campus and can be arranged whenever needed.

- **Campus Management Solution (CMS)** has been successfully operating in the institute.

Faculty of Islamic Studies

INSTITUTE OF ISLAMIC STUDIES

- **Digital Library**

All the library books etc have been successfully digitalized through MLIMS Software

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

- **Video Conferencing**

Lecture / Seminar are organized through Video Conferencing

- **Campus Management Solution**

Students Management System (SMS) is used for the admissions, results, classes and accounts related activities.



- **Web Portal**
Information regarding Centre is available on Punjab University Web Portal.
- **Development of online admission system**
Online Admissions for all academic programs are conducted through SMS system for the year 2018. In future all admission will be conducted through online.

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Digital Library**
Digital library resources are available in the Centre as well as in the hostels for the students and faculty members.
- **PERN**
PERN 2 is operational for wired and wireless internet as well as intranet.
- **Video Conferencing**
Polycom VSX-7000 video conferencing solution is available for national and international communications.
- **Campus Management Solution**
Avaling CMS deployed by the University of the Punjab.
- **Web Portal**
Website is available for the Centre <http://www.cemb.edu.pk>

DEPARTMENT OF BOTANY

- **Development of online admission system**
Yes, available under Students Records Management (SRM) University of the Punjab, Lahore.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **Campus Management Solution**
Complete record of departmental students has been updated in SRM. Five office staff is continuously working on it.

INSTITUTE OF APPLIED PSYCHOLOGY

- **Digital Library**
At present, Institutional students are given access to Digital Library of HEC. The Digital Services of the Punjab University Main Library are also accessible from the webpage of the University. Digital Access is provided free of cost to almost world famous journals/e-books i.e. full access to JSTOR, Science Direct, EBSOHOST, IEEE etc.
- **PERN**
Digital Services being provided by the University is based on PERN. This project is also supporting the students in their research activities as non-stop access to internet is given to the students through cable and Wi-Fi connections.



- **Video Conferencing**
Presently institute strongly feels need of Video Conferencing facility and aims to develop infrastructure for the same.
- **Campus Management Solution**
Campus Management Solution (CMS) is also in progress and all the data of the students is entered in this database every year after new admissions and passing out student results.
- **Web Portal**
The Administration of the Institute in collaboration with University IT department is in the process to have one dedicated webpage for the Institute. In this regard some paper work has already been done on development of alumnus portal.
- **Development of online admission system**
Presently there is no provision of online admissions in the institute. In near future this institute is planning to have online admission system which will facilitate the general public in meeting admission process more easily.

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

- **PERN:** Yes
- **Video Conferencing:** Yes
- **Web Portal:** Yes
- **Development of online admission system:** Yes

CENTRE FOR APPLIED MOLECULAR BIOLOGY

- **Web Portal**
Website is available for the Centre <http://www.camb.edu.pk>
- **Development of online admission system**
Development of online admission system is in progress.

Faculty of Sciences

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

- **Digital Library**
Efforts are being made to convert the College Library to a Digital Library. The whole data of books is being computerized.
- **Campus Management Solution**
A CMS committee is continuously updating the data of the college in CMS
- **Web Portal**
The College of Earth and Environmental Sciences has established its web portal "www.cees.edu.pk"



COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Digital Library**
Synchronization with PU Main Library for the use of digital library facilities to our students is under the way.
- **Video Conferencing**
Presently not in operation, however, equipment & techniques are available in the College
- **Campus Management Solution**
Almost all the results, result cards, academic transcripts & Final Transcripts are generated from the CMS. CMS is 75-80% operational in the College.
- **Web Portal**
Updated information regarding our College is available at www.pu.edu.pk

DEPARTMENT OF GEOGRAPHY

- **Digital Library:** Yes
- **Video Conferencing:** Yes
- **Campus Management Solution:** Yes
- **Web Portal:** Yes
- **Development of online admission system:** Yes

DEPARTMENT OF PHYSICS

- **Digital Library**
Synchronization with the PU Main Library to avail digital library facilities available is in process.
- **Campus Management Solution**
Almost all the examination results, result cards, academic transcripts & final transcripts are generated from the CMS. The CMS is 70-85% operational in the Department.
- **Web Portal**
Updated information regarding our Department is available at www.pu.edu.pk

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Digital Library:** Yes
- **PERN:** 150 MB Bandwidth
- **Video Conferencing:** Yes
- **Campus Management Solution**
CMS provides the standard tools for faculty to manage their online courses, process assignment, maintain grade books and stay in contact with colleagues and students. Students enjoy being able to easily see their assignments, lessons and other information for all of their classes like semesters transcript etc. staff benefits from services such as built-in help desk, textbook requisitions, exam scheduling and faculty/course changes.



- **Web Portal:** Completely redesigned and implemented PUCIT web page: www.pucit.edu.pk
- **Development of online admission system:** Yes

SCHOOL OF PHYSICAL SCIENCES

- **Digital Library**
Digital Library facility at main library of Punjab University is available. Video conferencing facility is also available in the university campus and can be arranged whenever needed.

Punjab University Gujranwala Campus

- **Digital Library**
PUGC library has the access to HEC Digital Library on JSTOR, Emerald, Springer Link and Wiley Online Library.
- **PERN**
Punjab University Gujranwala Campus has been selected as Aggregation Point of Presence (A-POP) for the connectivity of PERN2 by the HEC. PUGC is utilizing 8 MB of internet bandwidth on PERN2.
- **Video Conferencing**
The equipment for video conferencing is available at PUGC.
- **Campus Management Solution (CMS)**
The Campus Management Solution is functioning and the following modules have been used:
 - Student Application Entry
 - Term Activation
 - Student Enrollment
 - Student Grading and Enrollment
 - Student Financials

Punjab University Jhelum Campus

- **Campus Management Solution (CMS)**
 - Basic Enrollment
 - Student Application Entry



Chapter

9

UNIVERSITY BUILDING COMMUNITIES

- *University-Community Interaction*
- *University's Role in Building Community*
- *Alumni Affairs: Outstanding Achievements etc.*



CHAPTER 9

University Building Communities

Faculty of Arts & Humanities

DEPARTMENT OF ARCHAEOLOGY

- **Alumni Affairs:** Outstanding Achievements etc.
The students were taken for field studies and practical training in museology to the various archaeological sites and museums.

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **Department- Community Interaction**
 - On 25 of April, 2018 Department of English Language and Literature hosted the screening of the documentary **True Cost**, an eye-opening documentary discussing the links between consumer pressure for low-cost high fashion and the workers who produce these goods.
 - Accounts Officer, Mr Shabbir Ahmed represented the Department of English Language and Literature, PU, at an official training programme hosted by the Government of Pakistan Bomb Disposal Unit H.Q. for “Reconnaissance and Threat Mitigation” from March 19th - March 30th, 2018.
- **Department’s Role in Building Community**
 - Ramish Nazir was selected for the Global Undergraduate Exchange Program for Pakistan (Global UGRADPakistan), Spring, 2017 semester.
 - The Department of English Language and Literature, University of the Punjab, in collaboration with Lal Production House (headed by Ms. Rubab Syed) organized three-day dramatic performances to celebrate, “Readers' Drama and Theatre”. (14th – 16th May, 2018).

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

- **Department –community interaction**
The aims of the above Academic programs are to produce qualified researchers in the field of history. The students have already started writing the research articles in journals of national and international repute.
- **Department’s role in building community**
The department has been promoting awareness about Pakistan through observing days of national significance, holding seminars and special lectures throughout academic year.



PAKISTAN STUDY CENTRE

- **Department's role in the building community**

The aim of these academic programmes is to produce qualified researchers in field of Pakistan Studies. The students have already started contributing research articles in journals of national and international repute. It is hoped that this qualified manpower would produce research on issues of national and international importance.

- **Department's role in building community**

The Centre has been promoting awareness about Pakistan through observing days of national significance by holding seminars and special lectures.

The Centre also has a Character Building Society of the Centre comprising faculty members and research students of the Centre.

DEPARTMENT OF FRENCH LANGUAGE AND LITERATURE

- **Department's role in the building community**

The department of French has always made efforts to develop linkages and to build community with other sections of the society. This year too, as usual, the department organized Guest Lectures and Discussion sessions related to social grooming, ethics and discipline in society, etc. Eminent personalities from society and academia are also invited at such occasions and their interaction with students is an important step in the capacity building of our youth.

- **Alumni affairs:** outstanding achievements etc:

Some of the top graduates of the French department were offered scholarship to pursue their doctoral studies in French universities. Others were offered career opportunities as educators in esteemed and reputed institutions where they are working with ambition.

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

- **Alumni Affairs:** Outstanding Achievements etc.

"Gender Alliance" is Alumni of the department and has membership of around 425 student graduates.

DEPARTMENT OF SOCIAL WORK

- **University Building Communities**

As a Faculty of Behavioral and Social Sciences, the Department took part in different workshops and seminars organized by Dean, Faculty of Behavioral and Social Sciences in the said year.



INSTITUTE OF COMMUNICATION STUDIES

- **Department's role in building community**
Institute of Communication Studies is playing pivotal role in strengthening the community of the media professionals as well as community at the larger level. The Institute arranges various types of seminars, workshops, and lectures for highlighting and solving their issues related to the Pakistan society especially with reference to the media.
- **Alumni Affairs: Outstanding Achievements etc.**
Meetings are causally held with the following significant Alumni.
Mr. Arif Nizami, Mr. Zahid Malik, Mr. Shuaib Bin Aziz, Mr. Shakoor Tahir, Mr. Asghar Abdullah, Mr. Sarwar Muneer Rao, Mr. Hamid Mir, Mr. Arshad Ansari, Dr. Waqar Chaudhry, Mr. Ashraf Azeem, Rizwan Ur Rehman Rizi Mr. Imran Mir, Taseer Mustafa, Muhammad Junaid, Muhammad Ajmal Jami, Nabeeha Ijaz, Huda Ikram, Sagheer Rame, Karmat Bhatti, Rameez Khan, Majid Nizami, Hafiz Usman, Asif Jafery, etc.

INSTITUTE OF SOCIAL & CULTURAL STUDIES

- **Department-community interaction**
Efforts are made in this context through regular 'Field Work' activity and internship activities carried out in all the departments of this Institute.
- **Department's role in building community**
Internship of students is an in-built component of the curriculum taught in all the department of ISCS. Through this activity students are given an understanding of the realities of issues discussed with them during their classes. Small projects are allocated to students concerning social welfare and urban development.
- **Alumni Affairs: Outstanding Achievements etc.**
 - The Annual get-together of Alumni Association of Punjab University Sociologists (AAPUS) was arranged at Institute of Social and Cultural Studies on 25th March, 2015. Various eminent sociologists attended this get-together.
 - Many Alumnus of the Institute are pursuing higher academic degrees in various high profile universities across the globe. An Alumni directory is in process to compile the achievements of Alumnus.

Faculty of Economics & Management Sciences

DEPARTMENT OF INFORMATION MANAGEMENT

- **Department-community interaction**
 - Department of Information Management in collaboration with PU Library jointly organized a seminar on "Role of Reading in Personality Development" to mark World



Book & Copyright Day. Chairperson Punjab Commission on Women Dr Fouzia Waqar, Principal Oriental College Prof. Dr. Muhammad Fakhar-ul-Noori, Chairperson Department of Information Management Prof. Dr. Kanwal Ameen, poet Rehman Faris, faculty members, librarians and a large number of students were present. In the seminar the speakers stressed the government to take measures for promoting book reading and book loving culture in the country.

- As mentioned above, the Department conducted collaborative workshops for librarians, researchers and faculty staff within and outside the Department.
- **Department's role in building community**
Through patronizing alumni association and organizing various activities, the Department is playing a pivotal role in bonding the community.

INSTITUTE OF BUSINESS ADMINISTRATION

- **Department-community interaction**
 - Blood camp for Shaukat Khanum Memorial Cancer Hospital and Research Centre arranged by this institute on 31st January 2018.
 - Business Incubation Centre (BIC) was handed over to IBA which is a great opportunity for boosting SMEs to help individuals create and nurture small startups at our cell and then become drivers for a strong economic community inside Pakistan.
- **Alumni Affairs:** Outstanding Achievements etc.
IBA Alumni Annual Dinner & General Body Meeting was arranged on Saturday February 17, 2018 at Pearl Continental (PC) Hotel, Lahore.

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- **University-community interaction**
 - Department is providing assessment of ear with the latest audiology equipment in Audiology lab of the department
 - Ph.D and M.A. Students are deputed by the department to serve in special education institutions and Hospitals as a special educationist.
- **University role in building community**
Students as practitioners serving the field in public and private set up.



Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

○ **Department-Community Interaction**

Department effectively interacts with the community including students' parents, consultants, industrialists and public media persons etc.

○ **Department's role in Building Community**

Centre for coal technology is playing a vital role in community building by providing consultancy and solutions to the local industries, which are switching to coal rapidly. In addition, industrial sample testing is provided at convenient rates.

○ **Alumni Affairs: Outstanding Achievements etc.**

Students employment rate is above 80%.

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

○ **Department Community interaction**

- Community interaction with electronic media e.g. Facebook pages

Three pages are active

- Department of Polymer Engineering and Technology
- Polymer Club
- Society of Polymer and Material Engineering

○ **Departments's Role in building Community**

Due to department's interaction with the universities and industry we are helping in development of products which are useful for human use and helpful in increasing the quality of life in many ways. Therefore, we have a strong impact for building community.

○ **Alumni Affairs: Outstanding Achievements etc.**

- Department has started Alumni activities for gathering information of Alumni so that future
- activities and working of the Alumni office can be carried out.

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

○ **Institute-community interaction**

The institute appreciates community interaction activities among the students and faculty. In this regard institute is continuously interacting with the industry as well as international faculty to incorporate and improve new trends and enrich the curriculum.

○ **Institution's role in building community**



The institute is actively participating in different bodies constituted under the law to put an impact to improve the quality standards of education and technical requirements for the betterment of community.

- **Alumni affairs:** Outstanding achievements etc.
Alumni office has been established at the institute. The office is building its database for all alumni in the first phase. Alumni of the institute have established a Zakat Fund from which a handsome amount of scholarships is being paid to needy students. The alumni of the institute are serving the industry as well as public sector organizations in various positions. Software has been developed on the faculty of Engineering and Technology level and used for generating merit lists during admission process.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **Institute-community interaction**
Employer interaction on annual basis
- **Alumni affairs:** Outstanding Achievement etc.
Alumni meeting are being held every year and students interact with their passed out seniors for job matters.

Faculty of Islamic Studies

INSTITUTE OF ISLAMIC STUDIES

- **Department-community interaction**
Invitation to some leading scholars and journalist in the department.
- **Alumni Affairs:** Outstanding Achievements etc.
Annual congregation of Majlis-e-Fazlin. The Alumni organization of this deptt.

Faculty of Life Sciences

NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Department-Community Interaction**
The Department provides the opportunity to community such as students from colleges, universities and young researchers to visit the Centre and get knowledge related to applications of Molecular Biology.
- **Department's role in building community**
Same as above



- **Alumni Affairs:** Outstanding Achievements etc.
List of Alumni and contact details has been prepared and available on web portal and a get together for alumni is in progress.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **Department-community interaction**
 - Dr. Samreen Riaz as keynote speaker and Focal person in Module of teaching methodology in Faculty Development Training Program held on 3-7 September 2018 at University of Central Punjab, Lahore.
 - Dr. Nageen Hussain keynote speaker in faculty Development Training Program held on 3-7 September 2018 at University of Central Punjab, Lahore.
 - Pre Conference workshop on “Choose the Right Tool for Bacterial Identification, held on 1st February 2018 in collaboration with Musaji Adam & Sonsat Department of Microbiology and Molecular Genetics
 - One day intensive workshop on “Craft of Scientific Writings and Publications, held on 15th march 2018 at Department of Microbiology and Molecular Genetics
 - A conference on Microbiology and Molecular Genetics held on 7-9 February 2018 organized by Department of Microbiology and Molecular Genetics.
 - International Women Day, held on 8th march 2018 at Department Of Microbiology and Molecular Genetics
 - One day seminar on “Tuberculosis Past Present and Future, held on 26 march 2018 at Department of Microbiology and Molecular Genetics.
 - Development of Rapid Strip Assay for Typhoid, Dengue and Malaria held on 7-8 march 2018 at Department of Microbiology and Molecular Genetics
 - Dr Mehboob Ahmed Organized training workshop on Research Methodology in the Women University Multan, Multan (May 10-11, 2018)
 - Dr Samreen Riaz Organized and attended One day seminar on International women day in the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore On 8th March, 2018.
- **Department’s role in building community**
Formulation of Character Building Society (CBS), in the department, which organizes seminars, awareness campaign among the students about civic sense, social responsibility and community service
- **Alumni Affairs:** Outstanding Achievements etc.



Developed Alumni Association of the department, for which home page on social media (Facebook, Twitter etc) has been created, the association organize its annual meeting and alumni remain in contact with the department through social media, email etc. Registration of Alumni Association is in the plan of department.

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

- **Department-community interaction**
Department provided health and fitness related guidance to the general public.
- **Department's role in building community**
Health & Fitness is major component to do any work perfectly. Department produced professional teachers in the field of Sports Sciences & Physical Education, Fitness trainer and professional coaches that work in different places regarding Health and fitness.
- **Student counseling and Career Guidance**
The faculty members provide proper career guidance to the students according to their skills. There is proper mechanism of counseling to the weak students.

INSTITUTE OF AGRICULTURAL SCIENCES

- **Department-community interaction**
 - Institute has very strong interaction with the farmers as well as agriculture community. Institute invites different agricultural resource persons for interaction with the students and for further collaboration with community.
 - Institute arranged different demonstration plots such as Kitchen gardening through which it help to interact with urban and rural communities
- **Department's role in building community**
 - Institute organized visit to farmer communities and different departments to understand the problems and issues of the farmers and try to highlight or provide the solutions of the specific problems
 - Institute arranges different events i.e. Annual function and Get together and invites all the peoples related with different communities
- **Alumni Affairs: Outstanding Achievements etc.**
 - Institute has developed very strong coordination with Punjab Agriculture extention department to promote the recent research and knowledge to the different communities.
 - Annual function was organized every year which produced excellent interaction with the societies.

INSTITUTE OF APPLIED PSYCHOLOGY

- **University-community interaction**
 - Institute of Applied Psychology, University of the Punjab, Lahore collaborated with Drug Free Pakistan Foundation (DFPF) to organize fourth Pakistan Youth Congress in Lahore. The purpose of this congress was to provide life skills to the youth of Pakistan in order to empower them for a better future of the nation. Several students of the Institute participated in this



event as well few students were youth mobilizes and were involved in the management of the whole event.

- To inculcate the sense of volunteerism and responsibility towards community, the Institute of Applied Psychology has included Community work as mandatory part of their degree. Students work on community project in form of small groups under the supervision of a teacher.
- **University role in building community**
 - Institute's Students and faculty members are sensitized to the needs of the community and are either actively involved in projects having implications for the betterment of the community and also undertake research projects which are of direct relevance to the needs of the community.
- **Alumni Affairs:** Outstanding Achievements etc.
 - Our graduates have been successfully placed in army, industry, special education schools NGOs, Research organizations and academic institutes across the country.
 - Institute has established an alumni forum .The mission of the Alumni Forum is to support and promote the interests of the Alumni through the creation of personal links, providing services to its members, maintaining connection and interaction among them.
 - The main objective of the Forum is to establish a long standing relationship between graduates and the Institute for mutual benefits.

CENTRE FOR APPLIED MOLECULAR BIOLOGY

CAMB has strong community interactions through the following:

- The Centre is providing PCR-Based diagnostic testing of Hepatitis B&C to the general public at high economical rates approximately 500 to 600 patients monthly get benefited from these services.
- CAMB is providing DNA testing services in criminal and paternity cases to the law enforcement agencies and courts.
- CAMB is providing DNA sequencing and genotyping facility to the students of various universities and R&D organizations.
- CAMB is providing the opportunity to students/ young researchers from different universities to visit the Centre and get knowledge related to applications of Molecular Biology.
- **University role in building community**

CAMB organized one day awareness seminar on Road Safety titled, "Driving is a privilege, not a right" in which students learnt about the adverse impacts of rough driving.
- **Alumni Affairs:** Outstanding Achievements etc.

CAMB has passed out its first batch of 23 students of M.Phil session (2016-18). Out of these, two students got foreign Ph.D scholarship in Hong Kong.



Faculty of Sciences

CENTER FOR UNDERGRADUATE STUDIES

○ **Department-community Integration**

- The Annual Sports Gala of Centre for Undergraduate Studies was held on 21-22 March 2018. About two hundred students took part in different games like cricket, football, badminton, table tennis, tug of war and some other indoor and outdoor games with enthusiasm and great sportsmanship. The prize distribution ceremony was held on 27th April 2018 at the Annual Dinner Program. The sports program was a great success and was greatly appreciated by both students and teaching faculty.
- Centre for Undergraduate Studies under the vision of Vice Chancellor has been conducting tutorials in various social and recreational subjects. The students of all disciplines are encouraged to take part in the tutorials and they are given a chance to enhance their various skills. Along with that, CUGS has been involved in conducting various lectures/seminars inviting various prominent speakers/personalities and their details are as follows:
 - Centre for Undergraduate Studies, organized the orientation session to welcome the students of first semester in October, 2017 & 2018. The students were briefed about the semester rules by Ms. Nida Ahsan whereas the coordinator Dr. Najam ul Sehar Afshan with other teachers addressed the students and guided them about various matters. The concluding remarks by Director, Centre for Undergraduate Studies, enlightened the students about their code of conduct and expectations from them.
 - A Lecture on Ozone Depletion in Stratosphere by Prof. Dr. Jamil Anwar was held on February 15, 2018. The speaker addressed students about climate change and its consequences affecting our environment. Students benefited from the speaker's enlightening talk.
 - Centre for Undergraduate Studies celebrated the Independence Day on August 25, 2018. The Director, Centre for Undergraduate Studies addressed the audience. The singing of mili-naghmas and the dress code of green and white invigorated the spirits of the audience and rejuvenated their nationalistic spirits.
 - Centre for Undergraduate Studies celebrated the defense day on September 11, 2018 with national songs and declamations about the history of the 1965 war. The Chief Guest, Prof. Emeritus, Dr. Razi Abbas Shamsi shared his memories about the war. The Director, Centre for Undergraduate Studies addressed the audience.



COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

- **Department-Community Interaction**

The College of Earth and Environmental Sciences is making all sorts of efforts to educate the masses on current environmental issues. On World Environment Day (June 5) awareness programs were arranged at the College.

- **Department's Role in Building Community:**

A constructive role is being played by the faculty and students of the College.

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **University-community interaction**

College provides expertise and consultancy services in the field of Statistics, Operation Research, Actuaries and Business Management to the various organizations / departments in the country

- **University role in building community**

- Students of the College actively participate in a weekly lecture on "Darse Qur'aan" in which students were motivated towards peace, harmony and religious assistance on various subjects of interest.
- Centre of Health and Gender Equality for the peace promotion activities under the title of peace for the moral, spiritual and character building phonemes under sports, art, culture, debate and literary societies collaborates with College of Statistical and Actuarial Sciences. This Centre conducts training of the above-mentioned societies for the promotion of peace by conducting mentorship sessions with students and then the students conduct social action projects in the College.

- **Alumni Affairs: Outstanding Achievements etc.**

Rebuild and strengthen the 'Pakistan Statistical Association' by conducting various meetings of the members from all over the Pakistan (even from abroad) and thoroughly revived the 'rules & regulation' of the association.

DEPARTMENT OF GEOGRAPHY

- **Alumni Affairs: Outstanding Achievements etc.**

Old Geography Students Association hold Annual General Body Meeting and Dinner each year from 22 March followed by one day picnic tour place of Geographical Importance.

DEPARTMENT OF PHYSICS

- **Alumni Affairs: Outstanding Achievements etc.**

Alumni Ex-Students of Physics (AESOP)

DEPARTMENT OF SPACE SCIENCE

- **Alumni Affairs: Outstanding Achievements etc.**

Alumni Function held at Department of Space Science



INSTITUTE OF CHEMISTRY

There is strong interaction among the faculty members. There is small meeting arranged every day at 11:00 am in the institute where all the teachers are gathered and discuss different issues. At University level, lectures and seminars are arranged on regular basis. This could also provide a platform for the faculty members of the University to do interactions with other faculty members. Different events are also arranged in which students and teachers both participate that give the opportunity to students to get interact with the teachers.

INSTITUTE OF GEOLOGY

- **University-Community Interaction**

Institute of Geology provides expertise and consultancy services in the field of Geology to the various geological organizations in their ongoing projects in the country.

- **University role in building community**

Faculty members, graduate and postgraduate students of the Institute Geology actively participate in various geological community services being organized by the geological associations like Pakistan Association of Petroleum Geologists, Punjab Geological Society etc.

- **Alumni affairs: Outstanding achievements etc.**

Constitution of Alumnae of the Institute of Geology is in progress.



Chapter

10

SPORTS

- *Inter-Departmental Sports*
- *Participation in National Championship*
- *Achievements at National Level*
- *Incentives and Honours/Awards for Sports Persons*


CHAPTER
10

Sports

Department of Sports (Men)

During the session for the year 2017-18 the Punjab University Sports Department (Men), not only conducted Inter-Collegiate sports tournaments in various games and sports, but also selected, trained and managed University Teaching Departments combined teams as well as Punjab University teams for their participation in the University Inter-Collegiate and Inter-University Championships.

The standard and performance of both University Teaching Departments and Punjab University teams had been remarkably praise-worthy. P.U.T.D. got around Champion in the University Inter-Collegiate tournaments; Punjab University team also got around Runners-up' Position in the Inter-University Championship.

The details of achievements of Punjab University teams in the Inter-University tournaments are as under:

| Sr. No. | Name of Game | Position Secured |
|---------|----------------|------------------|
| 1. | Athletics | Winner |
| 2. | Boxing | Winner |
| 3. | Football | Winner |
| 4. | Badminton | Winner |
| 5. | Weight Lifting | Winner |
| 6. | Chess | Winner |
| 7. | Taekwondo | Winner |
| 8. | Wrestling | Runners-Up |
| 9. | Basketball | Runners-Up |
| 10. | Body Building | Runners-Up |
| 11. | Kabaddi | Runners-Up |
| 12. | Rowing | Runners-Up |
| 13. | Tug of War | Runners-Up |
| 14. | Archery | Runners-Up |
| 15. | Cycling | Runners-Up |
| 16. | Table Tennis | Runners-Up |
| 17. | Wushu | Runners-Up |
| 18. | Cricket | Third |



| | | |
|--------------|--------------------------------|-----------|
| 19. | Handball | Third |
| 20. | Hockey | Third |
| 21. | Squash | Third |
| 22. | Swimming | Third |
| 23. | Mountaineering | Third |
| 24. | Gymnastics | Third |
| 25. | Water Polo | Third |
| 26. | Judo | Third |
| 27. | Karate | Third |
| 28. | Baseball | Forth |
| 29. | Netball | Forth |
| Total | Gold | 8 |
| | Silver | 10 |
| | Bronze | 10 |
| | 4th Position | 2 |
| | No. Position | 1 |
| | No. Organized | 4 |

As mentioned on pre page, Inter-Collegiate tournaments in 02 different disciplines were held and member of teams from affiliated Colleges and constituent Institutions participated. The results were as under:-

| Games | Winner | Runners-up |
|--------------|---------------------------|---------------------------|
| Kabaddi | Ikhwan Sc. College, Barki | P.U.T.D. |
| Athletics | P.U.T.D | Ikhwan Sc. College, Barki |

Punjab University combined Teaching Departments teams were duly selected, their camps training were arranged. Their participation in the University Inter-Collegiate tournaments was ensured. The detail of performance of these teams is given hereunder:-

| Sr. No. | Name of Game | Results |
|----------------|---------------------|----------------|
| 1. | Athletics | Winner |
| 2. | Kabaddi | Runners-up |

Apart from arranging/managing, Inter-Department tournaments in Badminton, Hockey, Football, Table Tennis, Basketball, Tug-of-War, Cricket, Chess & Volleyball were conducted in which a large number of student-players of the University Teaching Departments/ Institutes actively and keenly participated. The results and positions obtained by these Departments/ Institutes are as such:



| Game | Winner | Runners-up |
|--------------|-----------------|---------------------------------|
| Basketball | I.B.A | Sports Sciences |
| Football | Sports Sciences | Institute of Social Culture St. |
| Cricket | Sports Sciences | I.B.A |
| Chess | Philosophy | I.B.A |
| Table Tennis | Sports Sciences | Chem. Engg. & Tech |
| Volleyball | Sports Sciences | Institute of Social Culture St. |
| Athletics | Sports Sciences | Chem. Engg. & Tech |

Sports Sciences won the title of 'All-round Champions' with 28 points while I.B.A. was 'All-round Runners-up' with 11 points.

Furthermore, vast area of playing-fields both at Old and New Campuses, Boat Club, Physical Fitness Centre and New Campus, Swimming Pool are properly looked after, up kept and maintained in a befitting manner.

In brief, the work and performance of Punjab University Sports Department (Men), remained highly satisfactory for the sessions 2017-'18. It is further added that National Games results, Intervarsity and Inter Collegiate are enclosed. List of Students/Players awarded scholarship on the basis of Performance of HEC as well as National levels is also enclosed.

Selected Players for H.E.C. Team.

The following players of Punjab University participated in the following games who were Selected for H.E.C. teams in National Championship / National games and International Tournament.

▪ **Weight Lifting National Championship.**

| | | |
|----|-----------------|-----------------------------------|
| 1. | Tajammal | Punjab University Gujranwala Cam. |
| 2. | M. Ibran Khalid | IBIT |
| 3. | Sohaib Kaleem | Punjab University Gujranwala Cam. |

▪ **Handball (National Championship)**

| | | |
|----|--------------|-------------------------------|
| 1. | Umair Younas | Department of Sports Sciences |
| 2. | Asif Munir | Gender Study |

▪ **Basketball (National Championship)**

| | | |
|----|---------------|---------------------------|
| 1. | Kaleem Ullah | Institute of Geology |
| 2. | Taimoor Mehdi | Akhwan Sc. College, Barki |
| 3. | Saboor Mehdi | Akhwan Sc. College, Barki |
| 4. | Hamza Mehmood | I.B.A. |

▪ **Cricket (Grate II Patron Trophy) by PCB**

| | | |
|----|---------------|----------------------------------|
| 1. | Hammad Butt | Institute of Chem. Engg. & Tech. |
| 2. | M. Arslan Zia | Department of Sports Sciences |
| 3. | Maaz Taimia | Department of Sports Sciences |



| | | |
|-----|--------------------|-------------------------------|
| 4. | Usman Shafique | Department of Sports Sciences |
| 5. | Rana Kashif Nadeem | Department of Sports Sciences |
| 6. | Muhammad Yasir | Department of Sports Sciences |
| 7. | Rana Junaid Islam | Institute of Biochemistry |
| 8. | Muhammad Irfan | Department of Sports Sciences |
| 9. | Sunny Azam | Department of Sports Sciences |
| 10. | Muhammad Shahzaib | College of E. E. Science |
| 11. | Saad Dar | Department of Sports Sciences |

▪ **Kabaddi (National Championship)**

| | | |
|----|----------------------|-------------------------------|
| 1. | Muhammad Azam | Department of Sports Sciences |
| 2. | Muhammad Hasan Hanif | Akhwan Sc. College, Barki |
| 3. | Muhammad Yasir | Akhwan Sc. College, Barki |
| 4. | M. Awais Arshad | Department of Sports Sciences |
| 5. | Muhammad Ramzan | Akhwan Sc. College, Barki |
| 6. | Amir Sohail | Akhwan Sc. College, Barki |

▪ **Boxing (National Championship)**

| | | |
|----|--------------------|-------------------------------|
| 1. | Abdul Wali | Department of Sports Sciences |
| 2. | Hafeez Ullah Hamza | Akhwan Sc. College, Barki |
| 3. | Ameer Hussain | Department of Sports Sciences |
| 4. | Ajmal Khan | Akhwan Sc. College, Barki |
| 5. | Shahroz | Akhwan Sc. College, Barki |
| 6. | Sheryar Khan | Akhwan Sc. College, Barki |
| 7. | Muhammad Ajmal | Akhwan Sc. College, Barki |

▪ **Wushu (National Championship)**

| | | |
|----|-----------------------|-------------------------------|
| 1. | Haidar Ali | Department of Sports Sciences |
| 2. | Syed Arif Hussain | Akhwan Sc. College, Barki |
| 3. | Dawood Jan | Department of Sports Sciences |
| 4. | Muhammad Nouman Altaf | Department of Sports Sciences |

▪ **Cycling (National Championship)**

| | | |
|----|----------------|-------------------------------|
| 1. | Muhammad Usman | Department of Sports Sciences |
| 2. | Saim Hayyat | College of Fine Arts |
| 3. | Usama Qayyum | Akhwan Sc. College, Barki |

▪ **Table Tennis (National Championship)**

| | | |
|----|-------------|-------------------------------|
| 1. | Subhan Asim | Department of Sports Sciences |
| 2. | Abid Iqbal | College of E.E. Sciences |



▪ **Taekwondo (National Championship)**

| | | |
|-----|----------------------|-------------------------------|
| 1. | Hidayat Ullah | Gender Study |
| 2. | Jabran Asad Khan | IQTM |
| 3. | Noman | Gender Study |
| 4. | Muhammad Zubair | Gender Study |
| 5. | Mazhar Ali Khan | IQTM |
| 6. | Muhammad Anas | Department of Sports Sciences |
| 7. | Tanveer Ahmad | IQTM |
| 8. | Gul Badin Kikmat Yar | Department of Sports Sciences |
| 9. | Noorza Din | Akhwan Sc. College, Barki |
| 10. | Muhammad Awais | Akhwan Sc. College, Barki |
| 11. | Kaleem Ullah | CEES |
| 12. | Muhammad Waqas | Department of Sports Sciences |
| 13. | Shahrukh Khan | Department of Sports Sciences |
| 14. | Muhammad Kamran | Department of Sports Sciences |
| 15. | Syed Dawood Shah | Department of Sports Sciences |
| 16. | Idrees Khan | Department of Sports Sciences |
| 17. | Muhammad Haris Khan | Nobel College, Lahore. |

▪ **Athletics National Championship**

| | | |
|-----|---------------------|-----------------------|
| 1. | Muhammad Shafique | Instt. of Chem. Engg. |
| 2. | Farhan Haider | IBIT |
| 3. | Huzran Khan | Sports Sciences |
| 4. | Asmat Ullah Khan | IQTM |
| 5. | Muhammad Yasir | Sports Sciences |
| 6. | Afzaal Ahmad | IBIT |
| 7. | Umar Sadat | College of Fine Arts |
| 8. | Muhammad Amjad | Sports Sciences |
| 9. | M. Laeeq Naveed | Sports Sciences |
| 10. | M. Raees Younas | P.U. Law College |
| 11. | Maroof Younis | Sports Sciences |
| 12. | Muhammad Nasir | Sports Sciences |
| 13. | Muhammad Ahsan Umer | Sports Sciences |
| 14. | Mohsan Mushtaq | Sports Sciences |
| 15. | Mubashar Hussain | Sports Sciences |
| 16. | M. Umar Ahthsam | Sports Sciences |

Note: Selected for HEC Team for the World Universities Championship at Chin case Taipei

| | | |
|----------------|---------|----------------------|
| Umar Sadat | Athlete | College of Fine Arts |
| Muhammad Yasir | Athlete | Sports Sciences |



- **Inter-University Result**

| | |
|--------|----|
| Gold | 08 |
| Silver | 10 |
| Bronze | 10 |

Athletics

| | |
|--------|----|
| Gold | 09 |
| Silver | 10 |
| Bronze | 05 |

Body-Building

| | |
|--------|----|
| Gold | 01 |
| Silver | 02 |
| Bronze | 04 |

Weight Lifting

| | |
|--------|----|
| Gold | 03 |
| Silver | 04 |
| Bronze | 02 |

Wrestling

| | |
|--------|----|
| Gold | 00 |
| Silver | 04 |
| Bronze | 04 |

Boxing

| | |
|--------|----|
| Gold | 05 |
| Silver | 00 |
| Bronze | 04 |

Taekwondo

| | |
|--------|----|
| Gold | 08 |
| Silver | 03 |
| Bronze | 01 |

Judo

| | |
|--------|----|
| Gold | 01 |
| Silver | 05 |
| Bronze | 00 |

Swimming

| | |
|--------|----|
| Gold | 00 |
| Silver | 06 |
| Bronze | 03 |

**Wushu**

| | |
|--------|----|
| Gold | 03 |
| Silver | 02 |
| Bronze | 06 |

Rowing

| | |
|--------|----|
| Gold | 06 |
| Silver | 04 |
| Bronze | 01 |

Karate

| | |
|--------|----|
| Gold | 00 |
| Silver | 09 |
| Bronze | 03 |

Cycling

| | |
|--------|----|
| Gold | 06 |
| Silver | 05 |
| Bronze | 02 |

○ **Inter-Collegiate**

Punjab University Teaching Departments

| | |
|--------|----|
| Gold | 1 |
| Silver | 1 |
| Bronze | 00 |

Over All Total Medal

| | |
|--------|----|
| Gold | 59 |
| Silver | 75 |
| Bronze | 55 |

List of Scholarship on Performance Base of HEC and National Level for session 2017-18

| Sr No | Name | Game | Department | Performance detail | Amount |
|-------|--------------------|-----------|-----------------|------------------------------------|--------|
| 1 | Muhammad Aitsam | Archery | Sports Sciences | Silver | 2500 |
| 2 | Mubashar Nazar | Archery | IBIT | Silver | 2500 |
| 3 | Zeeshan Ayoub | Archery | PUCIT | Silver | 2500 |
| 4 | Muhammad Mursaleen | Archery | Sports Sciences | Silver | 2500 |
| 5 | Mubashar Hussain | Athletics | Sports Sciences | 1 Silver | 2500 |
| 6 | Muhammad Shafique | Athletics | Chemical Engg. | 1 Gold Inter national | 5000 |
| 7 | Farhan Haider | Athletics | IBIT | 3 Gold, 1 Bronze Inter national | 11500 |



| | | | | | |
|----|--------------------------|-----------------------------|------------------------|--|-------|
| 8 | Huzran Khan | Ath., Rowing, Tug of war | Sports Sciences | 2, 1, 1 Silver | 7000 |
| 9 | Asmat Ullah Khan | Athletics | IQTM | 1 Gold 2 Silver | 7000 |
| 10 | Muhammad Yasir Sultan | Athletics | Sports Sciences | 1 Gold Inter national | 5000 |
| 11 | Umar Sadat | Athletics | Fine Art | 4 Gold Inter national | 14000 |
| 12 | Muhammad Amjad | Athletics | Sports Sciences | 1 Gold | 4000 |
| 13 | Muhammad Laeeq Naveed | Athletics | Sports Sciences | 1 Gold, 1 Silver, 1 Bronze Inter Nat. | 7000 |
| 14 | Muhammad Raees Younas | Athletics | Law College | 1 Gold | 4000 |
| 15 | Maroof Younis | Athletics | Sports Sciences | 3 Gold, 1 Silver | 11500 |
| 16 | Muhammad Nasir | Athletics | Sports Sciences | 1 Gold | 4000 |
| 17 | Muhammad Ahsan Umer | Athletics | Sports Sciences | 1 Gold, 1 Silver | 5500 |
| 18 | Mohsan Mushtaq | Athletics | Sports Sciences | 1 Gold, 1 Silver | 5500 |
| 19 | Muhammad Umar Ahthsam | Athletics | Sports Sciences | 2 Gold, 1 Silver | 8500 |
| 20 | Rizwan Ahmad | Athletics | Sports Sciences | 1 Gold | 4000 |
| 21 | Majid Faseeh | Athletics | Sports Sciences | 1 Silver | 2500 |
| 22 | M. Uaakkeph Khan | Badminton | IBIT | 1 Gold International | 5000 |
| 23 | M. Ammar Masood | Badminton | Sports Sciences | 1 Gold International | 5000 |
| 24 | Uzair Khan | Badminton | Sports Sciences | 1 Gold | 4000 |
| 25 | Muhammad Hayyan Uzair | Badminton | Sports Sciences | 1 Gold | 4000 |
| 26 | Muhammad Muqeet Tahir | Badminton | IBA | 1 Gold International | 5000 |
| 27 | Kaleem Ullah | Basketball | Geology | 1 Silver | 2500 |
| 28 | Taimoor Mehdi | Basketball | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 29 | Saboor Mehdi | Basketball | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 30 | Hamza Mehmood Butt | Basketball | IBA | 1 Silver | 2500 |
| 31 | Ali Iqbal | Basketball | IBA | 1 Silver | 2500 |
| 32 | Ahmad Arif | Basketball | IBA | 1 Silver | 2500 |
| 33 | Hannan Ahmad Akram | Basketball | Commission St. | 1 Silver | 2500 |
| 34 | Khawaja M. Danial Aasmi | Basketball | Chem. Engg. | 1 Silver | 2500 |
| 35 | Muhammad Usman | Basketball | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 36 | Muhammad Talha | Basketball | Geology | 1 Silver | 2500 |
| 37 | Farman Ali | Basketball | Sports Sciences | 1 Silver | 2500 |
| 38 | Zaki Ahmad | Body Building | Gujranwala Campus | 1 Silver | 2500 |



| | | | | | |
|----|------------------------|----------------|------------------------|-------------------------------|-------|
| 39 | Ahsan Ali | Body Building | H.C.C. | 1 Bronze | 1500 |
| 40 | Fahad Awan | Body Building | Sports Sciences | 1 Gold | 4000 |
| 41 | Asad Mehmood | Body Building | Sports Sciences | 1 Bronze | 1500 |
| 42 | Ashar Butt | Body Building | Sports Sciences | 1 Bronze | 1500 |
| 43 | Ahsan mobin | Body Building | Sports Sciences | 1 Bronze | 1500 |
| 44 | Adeel Ashraf | Body Building | Sports Sciences | 1 Silver | 2500 |
| 45 | Hassan Raza | Body Building | Sociology | 1 Bronze | 1500 |
| 46 | Abdul Wali | Boxing | Sports Sciences | 1 Gold International | 5000 |
| 47 | Ameer Hussain | Boxing | Sports Sciences | 1 Gold | 4000 |
| 48 | Muhammad Zahid Khan | Boxing | Sports Sciences | 1 Bronze | 1500 |
| 49 | Shahroz | Boxing | Akhwan Sc. Barki | Gold | 4000 |
| 50 | Ajmal Khan | Boxing / Wuash | Akhwan Sc. Barki | Gold 1 Silver | 5500 |
| 51 | Sheryar Khan | Boxing | Akhwan Sc. Barki | Gold | 4000 |
| 52 | Muhammad Ajmal | Boxing | Akhwan Sc. Barki | Bronze | 1500 |
| 53 | Humayun Khan | Boxing | Akhwan Sc. Barki | Bronze | 1500 |
| 54 | Abdul Nafeh | Boxing | Akhwan Sc. Barki | Bronze | 1500 |
| 55 | Hammad Butt | Cricket | Chem. Eng. | 1 Bronze | 1500 |
| 56 | Muhammad Arslan Zia | Cricket | Sports Sciences. | 1 Bronze | 1500 |
| 57 | Muhammad Shahzaib | Cricket | CEES | 1 Bronze | 1500 |
| 58 | Saad Ullah Zafar | Cricket | IC Pindi | 1 Bronze | 1500 |
| 59 | Maaz Taimia | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 60 | Muaz Zahid | Cricket | Chem. Eg. | 1 Bronze | 1500 |
| 61 | Saad Muhammad Dar | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 62 | Usman Shafique | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 63 | Rana Kashif Nadeem | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 64 | Muhammad Yasir | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 65 | Rana Junaid Islam | Cricket | Biochemistry | 1 Bronze | 1500 |
| 66 | Zahoor Ahmad | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 67 | Mudassar Nazir Ahmad | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 68 | Muhammad Irfan | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 69 | Sunny Azam | Cricket | Sports Sciences | 1 Bronze | 1500 |
| 70 | Muhammad Usman Khan | Cycling | Sports Sciences | 1 Gold, 1 Silver | 5500 |
| 71 | Saim Hayyat | Cycling | PUCAD | 3 Gold, 3 Silver, 2 Bronze | 15500 |
| 72 | Hameed Ullah | Cycling | Sports Sciences | 1 Gold, 1 Silver | 5500 |
| 73 | Noman Farooq | Cycling | Electrical .Engg. | 1 Gold | 4000 |
| 74 | Usama Qayyum | Cycling | Akhwan Sc. C. Barki | 2 Gold, 2 Silver | 10000 |
| 75 | Saqib Javaid | Cycling | Akhwan Sc. C. Barki | 1 Gold, 1 Silver | 5500 |
| 76 | Muhammad Irtza Asif | Chess | Chem. Engg. | Gold | 4000 |
| 77 | Syed Ali Mughees Mehdi | Chess | PUCIT | Gold | 4000 |
| 78 | Zorez Shabkhez | Chess | PUCIT | Gold | 4000 |



| | | | | | |
|-----|-------------------------|------------------------------------|---------------------|--------------------|------|
| 79 | Muhammad Uzair | Chess | Akhwan Sc. | Gold | 4000 |
| 80 | Moazzam Ali Zain | Football | Communication St. | 1 Gold | 4000 |
| 81 | Umer Javed | Football | Fine Arts | 1 Gold | 4000 |
| 82 | Farhan Rehan | Football | IAS | 1 Gold | 4000 |
| 83 | Dawood Maseeh | Football | Sociology | 1 Gold | 4000 |
| 84 | Saqib Nizam | Football | Sports Sciences | 1 Gold | 4000 |
| 85 | Muhammad Hamza Hameed | Football | Sports Sciences | 1 Gold | 4000 |
| 86 | Aamir Iqbal Gondal | Football | Criminology | 1 Gold | 4000 |
| 87 | Muhammad Faisal Abbas | Football | Sports Sciences | 1 Gold | 4000 |
| 88 | Saad Butt | Football | Communication St. | 1 Gold | 4000 |
| 89 | Aaqib Hussain | Football | Sports Sciences | 1 Gold | 4000 |
| 90 | Shahbaz Tariq | Football | HCBF | 1 Gold | 4000 |
| 91 | Nausherwan Hassan Burki | Football | IAS | 1 Gold | 4000 |
| 92 | Uzair Akhtar | Football | IBA | 1 Gold | 4000 |
| 93 | Saad Ali | Football | IBIT | 1 Gold | 4000 |
| 94 | Saqib yousuf | Football | Sports Sciences | 1 Gold | 4000 |
| 95 | Fahad Usman Meer | Gym. Mountaineering | PUCIT | 2 Bronze | 2000 |
| 96 | Zubair Shah | Gymnastics | Gujranwala Campus | 1 Bronze | 1500 |
| 97 | Muhammad Ghous Bashir | Gymnastics, Wushu, Mountaineering, | Sports Sciences | 2 Bronze, 1 Silver | 3500 |
| 98 | Ahsan Iqbal | Gymnastics | Sports Sciences | 1 Bronze | 1500 |
| 99 | Aman Ullah | Gymnastics | Gujranwala Campus | 1 Bronze | 1500 |
| 100 | Afaq Ahmad Khan | Gymnastics, Wushu | PUCIT | 2 Bronze | 2000 |
| 101 | Umair Younas | Handball | Sports Sciences | 1 Bronze | 1500 |
| 102 | Asif Munir | Handball | Gender St. | 1 Bronze | 1500 |
| 103 | Mubeen Ali | Handball | IBIT | 1 Bronze | 1500 |
| 104 | Waqar Ahmad | Handball | Sports Sciences | 1 Bronze | 1500 |
| 105 | M. Ghazanfar Shah | Handball | IBIT | 1 Bronze | 1500 |
| 106 | Haseeb Abbas | Handball | Sports Sciences | 1 Bronze | 1500 |
| 107 | Muneeb Ali | Handball | Sports Sciences | 1 Bronze | 1500 |
| 108 | Hashim Butt | Handball | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 109 | Mehran Ali | Handball | Sports Sciences | 1 Bronze | 1500 |
| 110 | Muhammad Asif | Handball | Sports Sciences | 1 Bronze | 1500 |



| | | | | | |
|-----|--------------------------|-------------------------------------|---------------------|------------------|-------|
| 111 | Abdul Waheed` | Handball | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 112 | Waseem Ali | Handball | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 113 | Mubashir Ishaq | Hockey | Chem. Engg. | 1 Bronze | 1500 |
| 114 | Muhammad Umar | Hockey | HCBF | 1 Bronze | 1500 |
| 115 | Sayed Afzaal Hayder Shah | Hockey | HCBF | 1 Bronze | 1500 |
| 116 | M. Arslan Raza | Hockey | Communication St. | 1 Bronze | 1500 |
| 117 | Irhas Qamar | Hockey | Chem. Engg. | 1 Bronze | 1500 |
| 118 | Syed Faizan Haider Naqvi | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 119 | Sohail Sheraz | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 120 | Faizan Sami | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 121 | Muhammad Ali Ashraf | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 122 | Muhammad Hassan | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 123 | M. Usman Aslam | Hockey | Sports Sciences | 1 Bronze | 1500 |
| 124 | Asim Ali | Hockey | Sociology | 1 Bronze | 1500 |
| 125 | Saqib Ullah | Hockey | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 126 | Bilal Kousar | Hockey | Chemistry | 1 Bronze | 1500 |
| 127 | Muhammad Awais | Hockey | Geology | 1 Bronze | 1500 |
| 128 | Zia ur Rehman | Hockey | Sociology | 1 Bronze | 1500 |
| 129 | Shakeel Ahmad | Hockey | IER | 1 Bronze | 1500 |
| 130 | S.M Tahfeem ul Hassan | Hockey | CHEP | 1 Bronze | 1500 |
| 131 | Sulaman Feroz | Judo | Sports Sciences | 1 Silver | 2500 |
| 132 | Zia ur Rehman Butt | Judo | Sports Sciences | 1 Silver | 2500 |
| 133 | Bashart Ali | Judo, Rowing, Wrestling, Tug of War | Sports Sciences | 4 Silver | 7000 |
| 134 | Abdul Quddus | Judo | Sports Sciences | 1 Silver | 2500 |
| 135 | Raheel Babar | Judo, Wrestling | Gujranwala Campus | 1 Gold, 1 Silver | 5500 |
| 136 | Muhammad Umair | Judo | Gujranwala Campus | 1 Silver | 2500 |
| 137 | Muhammad Azam | Kabaddi, Rowing, Tug of War | Sports Sciences | 1 Gold, 4 Silver | 10000 |
| 138 | Munawar Hussain | Kabaddi, Tug of War | Sports Sciences | 2 Silver | 4000 |
| 139 | Muhammad Rashid | Kabaddi | Sports Sciences | 1 Silver | 2500 |
| 140 | Muhammad Hassan Hanif | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 141 | Waqas Munir | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |



| | | | | | |
|-----|------------------------|--------------------|---------------------|-------------------------------|-------|
| 142 | Muhammad Irfan | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 143 | Muhammad Yasir | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 144 | Abu Sufyan | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 145 | M. Awais Arshad | Kabaddi | Sports Sciaences | 1 Silver | 2500 |
| 146 | Yousaf Raza | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 147 | Mahad Riaz | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 148 | Muhammad Ramzan | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 149 | Manzar Abbas | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 150 | Adil Riasat | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 151 | Umer Hayat | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 152 | Amir Sohail | Kabaddi | Akhwan Sc. C. Barki | 1 Silver | 2500 |
| 153 | Mubasher Manzoor | Karate | IBIT | 2 Silver | 4000 |
| 154 | Abdul Wahab | Karate | HCC | 1 Bronze | 1500 |
| 155 | Muhammad Usama Farooq | Karate | Ele. Engg. | 2 Silver 1 Bronze | 4500 |
| 156 | Tamoor Safdar | Karate | PUCIT | 2 Silver | 4000 |
| 157 | Muhammad Tayyab Sajjad | Karate | Sports Sciences | 2 Silver | 4000 |
| 158 | Muiz Ali | Karate | IAS | 1 Silver 1Bronze | 3000 |
| 159 | Hafiz Mahmood Mirza | Mountaineering | Cline Psychology | 1 Bronze | 1500 |
| 160 | Muhammad Sufyan | Mountaineering | Sports Sciences | 1 Bronze | 1500 |
| 161 | Majid Iqbal | Mountaineering | Agri. Sc. | 1 Bronze | 1500 |
| 162 | Abdul Rehman | Rowing | IAS | 2 Gold 1 Silver International | 9500 |
| 163 | Usama Akram | Rowing | IAS | 4 Gold | 13000 |
| 164 | M. Anas Sandila | Rowing | IAS | 1 Gold | 4000 |
| 165 | M. Zeeshan Ali Khan | Rowing | IQTM | 1 Silver | 2500 |
| 166 | M. Aqib Siddique | Rowing | Sports Sciences | 3 Gold | 10000 |
| 167 | Mohsin Shehzad | Rowing | Sports Sciences | 1 Silver, 1 Bronze | 3000 |
| 168 | Hasnain Ali Husnain | Rowing | Sports Sciences | 3 Gold | 10000 |
| 169 | M. Sabar Haider | Rowing, Tug of War | Sports Sciences | 1 Gold, 1 Silver | 5500 |
| 170 | Mohsin Butt | Rowing | IBIT | 1 Bronze | 1500 |



| | | | | | |
|-----|------------------------|-------------------|---------------------|---------------------------------|-------|
| 171 | M. Samiullah Ajmeri | Squash | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 172 | Muhammad Adil Faqir | Squash | Akhwan Sc. C. Barki | 1 Bronze | 1500 |
| 173 | Muhammad Ali | Squash | Sports Sciences | 1 Bronze | 1500 |
| 174 | Ahmad Mehmood | Swimming , W/polo | Pharmacy | 1 Silver, 2 Bronze | 3500 |
| 175 | Saeed Anwar | Swimming | Sports Sciences | 1 Silver, 1 Bronze | 3000 |
| 176 | M. Farhan Shahid | Swimming | Chem. Engg | 2 Silver | 4000 |
| 177 | Hassan Ali Ahmad | Swimming | Communication St. | 2 Silver | 4000 |
| 178 | Syed M. Irtaza Mazhar | Tug of War | Sports Sciences | 1 Silver | 2500 |
| 179 | Waqas Ali | Tug of War | Sports Sciences | 1 Silver | 2500 |
| 180 | Omer Hamza | Tug of War | IBIT | 1 Silver | 2500 |
| 181 | Muhammad Waseem | Tug of War | Sports Sciences | 1 Silver | 2500 |
| 182 | Muhammad Irfan | Tug of War | Sports Sciences | 1 Silver | 2500 |
| 183 | Murad Khan | Table Tennis | Chemistry | Silver | 2500 |
| 184 | Subhan Asim | Table Tennis | Sports Sciences | Silver | 2500 |
| 185 | Syed Muhammad Abdullah | Table Tennis | PUCIT | Silver | 2500 |
| 186 | Abid Iqbal | Table Tennis | CEES | Silver | 2500 |
| 187 | Yashwa Masih | Table Tennis | Zoology | Silver | 2500 |
| 188 | Muhammad Anas | Taekwondo | Sports Sciences | 3 Gold International | 11000 |
| 189 | Nomaan | Taekwondo | Gender St. | 2 Gold | 7000 |
| 190 | Muhammad Waqas | Taekwondo | Sports Sciences | 1 Gold | 4000 |
| 191 | Muhammad Awais | Taekwondo | Akhwan Sc. | Silver | 2500 |
| 192 | Tanveer Ahmad | Taekwondo | IQTM | Bronze International | 2500 |
| 193 | Noorza Din | Taekwondo | Akhwan Sc. | Silver | 2500 |
| 194 | Jarbran Ahmad | Taekwondo | IQTM | Gold International | 5000 |
| 195 | Gul Badin hikmat Yar | Taekwondo | Sports Sciences | Gold International | 5000 |
| 196 | Mazhar Ali | Taekwondo | IQTM | Gold International | 5000 |
| 197 | Syed Dawood Shah | Taekwondo | Sports Sciences | Gold International | 5000 |
| 198 | Muhammad Zubair | Taekwondo | Gender St. | 1 Silver 1 Bronze International | 4000 |
| 199 | Mian M. Abdullah | Wrestling | Gujranwala Campus | 1 Silver | 2500 |
| 200 | Ghulam Dastgeer | Wushu, Archery | Sports Sciences | 1 Silver, 1 Bronze | 3000 |



| | | | | | |
|-----|------------------------|------------|---------------------|----------------------|------|
| 201 | Haidar Ali | Wushu | Sports Sciences | 1 Gold International | 5000 |
| 202 | Hamad Akram | Wushu | Sports Sciences | 1 Bronze | 1500 |
| 203 | Muntazir Mehdi | Wushu | Sports Sciences | 1 Silver | 2500 |
| 204 | M. Dawood jan | Wushu | Sports Sciences | 1 Gold International | 5000 |
| 205 | M. Nouman Altaf | Wushu | Sports Sciences | 1 Bronze | 1500 |
| 206 | Ali Humza Anwar | Wushu | Sports Sciences | 1 Bronze | 1500 |
| 207 | Ali Raza | Wushu | Sociology | 1 Bronze | 1500 |
| 208 | M. Tayyab Sajjad | Wushu | Sports Sciences | 1 Bronze | 1500 |
| 209 | Syed Arif Hussain | Wushu | Akhwan Sc. C. Barki | Gold | 4000 |
| 210 | M. Umer Ashraf | Wushu | Akhwan Sc. C. Barki | Bronze | 1500 |
| 211 | Muhammad Umar Arshad | Water Polo | Chem. Engg. | Bronze | 1500 |
| 212 | Sulaiman Hassan | Water Polo | Sports Sciences | Bronze | 1500 |
| 213 | Ahmad Tariq | Water Polo | Chem. Engg. | Bronze | 1500 |
| 214 | Azmat Ullah | Water Polo | Sports Sciences | Bronze | 1500 |
| 215 | Sayed Anwar | Water Polo | Sports Sciences | Bronze | 1500 |
| 216 | M. Farhan Shahid | Water Polo | Chem. Engg | Bronze | 1500 |
| 217 | Hassan Ali Ahmad | Water Polo | Mass Com | Bronze | 1500 |
| 218 | Umer Javed | Water Polo | Arts & Design | Bronze | 1500 |
| 219 | Kh. Muhammad Usama | Water Polo | PUCIT | Bronze | 1500 |
| 220 | Muhammad Aqib Siddique | Water Polo | Sports Sciences | Bronze | 1500 |
| 221 | Arsalan Ahmad Faiz | Water Polo | Ele. Engg | Bronze | 1500 |
| 222 | Kh. Muhammad Ashar | Water Polo | IBA | Bronze | 1500 |
| 223 | Muhammad Hamza | Water Polo | Sports Sciences | Bronze | 1500 |



Faculty of Arts & Humanities

CENTRE FOR SOUTH ASIAN STUDIES

○ **Inter-departmental sports**

| Male | Female |
|------|--------|
| 13 | 07 |

Faculty of Commerce

○ **Achievement of our students in sports**

- Hand Ball HEC 3rd Position
- Junior Mr. Pakistan Championship Gold Medalist
- HEC Wushu Gold Medalist
- 1st Position in Independence day memo 2017
- HEC Taekwondo Gold Medalist
- Quaid-e-Azam Games Gold medalist Taekwondo
- One of our student is Caption of PCB under 16 and under 19 cricket team
- HEC Baseball Bronze Medalist
- Inter Collegiate Silver Medalist
- Punjab Olympic Basketball Gold Medalist

Faculty of Economics & Management Sciences

DEPARTMENT OF INFORMATION MANAGEMENT

Annual sports is a regular event that is usually held during the first week of March and was held in the years 2018.

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

Currently, around 29 students are enrolled on Sports basis. The students of IBIT have participated actively in sports activities throughout the year including Cricket, Football, Basketball, Badminton and Squash. Sports gala has been arranged in which students participated enthusiastically. Afterwards, a prize distribution ceremony was hosted where certificates and trophies were distributed among the winners.



Faculty of Engineering & Technology

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

○ **Interdepartmental sports**

Apart from academics, sports is a regular activity at the Institute. Every year during the spring season, sports gala is arranged by the Institute to encourage the students for their active participation in sports as well. Different sports activities like cricket matches, football, luddo, hockey, table tennis, badminton and chess are organized among students and faculty members.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

Sports week is arranged in department on annual basis

○ **Achievements**

BSc IEM Students (Jabbran Asad Khan, Mazhar Ali Khan and Tanveer Ahmad) won Gold Medal in

- All Pakistan Inter University Taekwondo Championship
- Quiad-e-Azam Games
- All Interprovincial Taekwondo Championship

○ **Incentives and Honors**

1 Scholarship awarded from PU (Intersivity Taekwondo Championship) and 1 from HEC (National Championship)

Faculty of Islamic Studies

SHEIKH ZAYED ISLAMIC CENTRE

○ **Inter-departmental sports**

The students of the Centre participate in inter-departmental sports organized annually by the Sports Department, University of the Punjab, Lahore.

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

○ **Inter-departmental sports**

Inter-department 28th March, 2018, Chess 1st Position, Carom 1st position, and Badminton Runners are awarded.



NATIONAL CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

○ **Inter-Departmental Sports**

Sports such as Badminton, Cricket matches, Football, Chess, Table Tennis, Luddo matches are organized among students and faculty members.

INSTITUTE OF APPLIED PSYCHOLOGY

○ **Achievements at national level**

- Ayesha Areej student of BS-4, IAP, PU represented Punjab University in all Pakistan parliamentary tournament held from 23rd to 26th March 2018.
- Saira Amjad a student of BS-2 participated in All Pakistan Intervarsity Karate championship conducted by UET Lahore and won one gold medal and two silver medals along with team trophy.

○ **Incentives and honours/ awards for sports persons**

As per University policy the students admitted on sports basis are exempted from Semester Fee and Dues as well as hostel charges.

Faculty of Sciences

DEPARTMENT OF GEOGRAPHY

○ **Inter-departmental sports**

- Every year in the month of February the department organizes annual sports week in which all the student participates. The sports week followed by prize distribution to encourage the students. The students who participate in sports are given shields and certificates. During last two years this event is followed by one day picnic.
- Every year five students are admitted on sports basis who participate at national and International level being member of Punjab University team.

○ **Incentives and honours/ awards for sports persons**

A number of students who play in the University teams obtained a number of awards.

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

○ **Inter-departmental sports**

Yes



Chapter

11

UNIVERSITY BUILDING LEADERSHIP

- *Faculty Leadership (Awards and Representation in Govt. Policy Making Committees, Memberships on various Councils etc.)*
- *Student Leadership (Co-Curricular Activities: University Dramas, Exhibitions, Expos, Competitions, Debates at National & International Levels)*



CHAPTER 11

University Building Leadership

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

- **Faculty Leadership**
 - Member Provincial Task Force on Women Empowerment and Provincial CEDAW Committee

DEPARTMENT OF SOCIAL WORK

- **Faculty Leadership**
 - Dr. Tahira Jabeen, Chairperson / Associate Professor
 - Looking after administrative affairs of the Department
 - Convener Board of Studies in Social Work, University of the Punjab, Lahore
 - Convener Department Doctoral Program Committee
 - Member Board Faculty of Behavioral and Social Sciences, University of the Punjab, Lahore
 - Member Board of Studies, Institute of Social Sciences, Bahaudin Zakria University, Multan 2014-2017
 - Member National Curriculum Review Committee for Social Work, Higher Education Commission of Pakistan 2014-2017
 - Social Work Expert in Punjab Public Service Commission (Examiner PMS, Panelist PPSC)
 - Convener Department Disciplinary Committee
 - Convener Department Admission Committee
 - Member Global Social Service Workforce Alliance, since 2016.
 - Monitoring and Guiding Social Work Practicum of different groups.
 - Research supervision and teaching to the students of MSc, MPhil & PhD
 - MPhil Examiner at Institute of Social and Cultural Studies, University of the Punjab, Lahore and Department of Social Work, University of Sargodha
 - PhD Examiner at Department of Social Work, University of Peshawar
 - Working as Advisor on a UNICEF project for establishment of Child Protection Case Management System in Balochistan & Gilgit Baltistan
 - Ms. Bushra Naheed, Assistant Professor
 - Member Board of Studies, Social Work, Lahore College for Women University, Lahore.
 - Member Board of Social Sciences, Bahaudin Zakariya University, Multan
 - Member Board of Studies, Social Work, University of Sargodha, Sargodha.
 - Coordinator MSc Social Work Replica Program
 - Member, Admission Committee, Examination Committee, Scholarship Committee, Department of Social Work, University of the Punjab, Lahore.



- Monitoring and Guiding Social Work Practicum of different groups.
- Research supervision and teaching to the students of BS & MSc
- Ms. Sonia Omer, Assistant Professor
 - Member Senate, University of the Punjab, Lahore.
 - Member Academic Council, University of the Punjab, Lahore.
- Mr. Muhammad Arsahad, Assistant Professor
 - Coordinator BS 4-Years Program in Social Work, University of the Punjab, Lahore.
 - Secretary, Committee for Evaluation of Research Projects, University of the Punjab, Lahore
 - Member, Board of Studies in Social Work, University of the Punjab, Lahore
 - Member Board of Studies in Child Rights Department, University of Lahore.
 - Member, Admission Committee, Examination Committee, Scholarship Committee, Department of Social Work, University of the Punjab, Lahore.
 - Departmental Focal Person for implementation of MOU and coordination with Community World Service-Asia.
 - Monitoring and Guiding Social Work Practicum of different groups.
 - Research supervision and teaching to the students of MSc
 - MPhil, MSc and BS Examiner at Center of South Asian Studies, University of the Punjab and Institute of Social and Cultural Studies, University of the Punjab, Lahore.
 - Conducted Trainings of Social Welfare Officers and NGOs on Child Rights, Community Development, Social Mobilization, Report Writing etc under Social Welfare Training Institute, Township Lahore.
 - Conducted Lectures/Trainings of Jail/Prison Staff on Role of Social Workers in Rehabilitation of Offenders under National Academy for Prison Administration (NAPA).
- **Student Leadership**

Under the MoU between University of the Punjab and Community World Service-Asia, Students of Social Work Department attended Capacity Building Workshops at Murree on 28-29 December, 2017, 5-10 March, 2018 & 14-15 August, 2018 for Strengthening Democracy through Youth Leadership Program.

Faculty of Economics & Management Sciences

DEPARTMENT OF INFORMATION MANAGEMENT

- **Faculty Leadership**
 - Prof. Dr. Khalid Mahmood is selected as president of the Punjab chapter of Pakistan Library Association (national professional body)
 - Prof. Dr. Kanwal Ameen is a member of National Testing Service and HEC Curriculum Committee on LIS.



Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

○ Student Leadership

Nominated two students Mr. Ismail Ishaq & Miss UmmyZetoon for Championship of debates at national and international levels.

Faculty of Engineering & Technology

INSTITUTE OF CHEMICAL ENGINEERING AND TECHNOLOGY

○ Faculty leadership

- Seniors faculty members are members of different committees formulated by HEC and PEC to improve the curriculum and quality of education (accreditation).
- Faculty members are active members of different organizations which are trying to improve the standards of education and research e.g. PEC and PICHE.

○ Student leadership

Students are encouraged to join various community and social organizations for developing leadership.

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

○ Student Leadership

- Organized Mental Health Day on 1st November, 2017
- Inaugurated Psychological Trauma Centre on 3rd November, 2017
- Celebrated Iqbal Day on 9th November, 2017
- Arranged Mehfil e Milad Un Nabi on 14th December, 2017
- Organized an event on "Peace" on 22nd December, 2017
- Organized its annual sports day on 28th March, 2018.
- Celebrated Independence Day on 14th August, 2018

DEPRATMENT OF ZOOLOGY

○ Faculty Leadership

Membership of associations and other networks. (Society, fellowships committee)

- Member congress Executive Committee. The Zoological Society of Pakistan, School of Biological Sciences, University of the Punjab, New-Campus, Lahore.
- Editor, Punjab University Journal of Zoology, Department of Zoology, University of the Punjab, Lahore.



Faculty of Sciences

DEPARTMENT OF GEOGRAPHY

○ **Faculty Leadership**

- The faculty members of this department are members Board of Studies of various geography departments of Pakistan. The faculty is also involved with HEC in preparing Curriculum of Geography.

INSTITUTE OF CHEMISTRY

There are different events arranged at Institute level at different religious and national days.

SCHOOL OF PHYSICAL SCIENCES

○ **Faculty Leadership**

- Dr. Fawzia Tabassum, Assistant Professor, School of Physical Sciences is Life Member of Pakistan Society of Biochemistry and Molecular Biology, University of the Punjab and Member of Pakistan Chemical Society.



Directorate of Students Affairs

Achievements in all Pakistan Intervarsity Co-curricular Competitions from 01-10-2017 to 30-09-2018

| Sr. No. | Category | 1 st Positions (Nos.) | 2 nd Positions (Nos.) | 3 rd Position (Nos.) | Total Positions (Nos.) |
|---------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|------------------------|
| 1. | Urdu Debate | 17 | 14 | 13 | 44 |
| 2. | English Debate | 31 | 21 | 05 | 57 |
| 3. | Punjabi Debate | 02 | 02 | 04 | 08 |
| 4. | Qiraat | 05 | | | 05 |
| 5. | Naat | 01 | 02 | 01 | 04 |
| 6. | Poetry | 09 | 09 | 04 | 22 |
| 7. | Theatre | 02 | 02 | | 04 |
| 8. | Urdu Essay Writing | 01 | 05 | 03 | 09 |
| 9. | English Essay Writing | 03 | 02 | | 05 |
| 10. | Singing / Arfana Kalam | 02 | 03 | | 05 |
| 11. | Quiz | | 03 | | 03 |
| 12. | Stand up Comedy | 01 | 01 | | 02 |
| 13. | Painting / Drawing / Calligraphy | 04 | 01 | 01 | 06 |
| 14. | Chess | 04 | | 01 | 05 |
| 15. | Photography | 02 | | 01 | 03 |
| 16. | Business Idea / Case | 01 | 01 | | 02 |
| 17. | E-Gamming | 01 | | | 01 |
| 18. | Bloggers Buzz | | 01 | | 01 |
| 19. | News bulletin | 01 | | | 01 |
| 20. | Web Design | 01 | | | 01 |
| 21. | Miscellaneous Competition | 13 | 05 | 01 | 19 |
| | Total | 101 | 72 | 34 | 207 |

Team Trophies : 30 Nos.

Runners Up Trophies : 07 Nos.

Total Team Trophies : 37 Nos.

Individual Prizes

First Prizes : 101 Nos.

Second Prizes : 072 Nos.

Third Prizes : 034 Nos.

Total Individual Prizes : 207 Nos.

Total Trophies + Individual Prizes : 37 + 207 = 244Nos.

This office also deals with the followings



Online Admission

The Directorate of Students Affairs has been publishing admission guidebook for the information of students seeking admission which contains authentic information about the various departments, program-wise previous merit and its calculation methods, extensive details of the programs offered in the university, contact information of relevant personnel, and everything else. However for the admission 2018-19, the university authorities decided to complete the admission process through online. To cope with the requirement, Director Students Affairs collected the relevant information from all teaching departments compiled the same and requested to IT department to upload information for the guidance of students who intend to seek admission in the university.

Admission Trials

Each year, University of the Punjab enrolls exceptionally talented students on the basis of co-curricular activities. The admission trials are held in various categories such as Naat, Qiraat, Debates, Acting, Singing, Quiz etc. The Directorate of Students Affairs has been assigned with the task of organizing these trials and manages it profoundly with managerial efficiency and competency. Each year, more than a thousand applicants appear before the Selection Committee constituted by the Vice Chancellor for admission in the university who are then observed and evaluated by distinguished and proficient jury panel. These students, once admitted, are further coached on the platform of DSA to represent the university on regional, national and international forums.

- a) Preparation of list of foreign students studying in Punjab University as per information provided by all teaching departments.
- b) Preparation of list of students studying in Punjab University other than Punjab province.
- c) The Director Students Affairs holds the office of Secretary, Discipline Committee. Therefore, this office deals with all disciplinary matters and conduct Discipline / Review Committee meetings.
- d) On the directions of worthy Vice-Chancellor, Director Students Affairs established a group of advisor students of all teaching departments for smooth functioning of student's matters.

Accommodation facility at Directorate of Students Affairs (STC) for Faculty Members / Officials and students who visited Lahore for Conferences, Study Tours etc.

Summary Table 01-10-2017 to 30-09-2018

| Total Tours | Total Students | Faculty Members / Officials |
|-------------|----------------|-----------------------------|
| 36 | 865 | 509 |

**Short list of study tours whose faculty members and students visited Punjab University**

1. Shaheed Zulfiqar Ali Bhatti Zarai College, Sindh
2. Quaid-i-Azam University, Islamabad
3. Government Boys Degree College Khoi Ratta, AJK
4. Gul Shah Agriculture Quetta
5. Azad Kashmir University, AJK
6. Lucky Marwat College KPK
7. Syed Muhammad Sadiq Iqra College Quetta
8. Chitral College
9. Commerce College Murray Road Rawalpindi
10. Swabi University
11. Peshawar University
12. Millat College Bahawalpur
13. Islamia University Bahawalpur
14. Ayub Medical College, Abbotabad
15. Bannu Kohat University
16. Poly Technical College Malakand
17. Salah ud Din College Mansehra
18. Govt. College Sawat College, Sawat
19. Arid University Rawalpindi
20. Residential College Quetta
21. Hazzara University
22. Kotli Zari College Quetta



Chapter

12

FINANCE

- *Financial Year at a Glance*
- *Development Budget*
- *Recurring Budget*
- *Self-Generated Income*
- *Trend of Per Student Spending*



CHAPTER 12

Finance

ANNUAL STATEMENT OF ACCOUNTS

| Sr. No. | Head of Income | Amount Rs. in Million | | |
|---------|---|-----------------------|------------------|------------------|
| | | Original 2017-18 | Revised 2017-18 | Actual 2017-18 |
| | Opening Balance | - | - | 87.550 |
| 1 | Government Grants | 2,548.631 | 2,571.386 | 2,571.386 |
| 2 | Examination fees | 2,289.362 | 2,314.620 | 2,388.736 |
| 3 | Registration & degree fee | 696.000 | 802.000 | 803.430 |
| 4 | Faculty of Behavioral & Social Sciences | 37.025 | 35.400 | 37.614 |
| 5 | Faculty of Eco. & Management Sciences | 61.337 | 58.250 | 63.881 |
| 6 | Faculty of Arts & Humanities | 16.865 | 18.650 | 21.368 |
| 7 | Faculty of Science | 98.390 | 87.200 | 96.244 |
| 8 | Faculty of Life Sciences | 35.860 | 37.700 | 46.091 |
| 9 | Faculty of Engg. & Tech. | 31.755 | 30.450 | 36.518 |
| 10 | Faculty of Pharmacy | 19.900 | 21.500 | 23.890 |
| 11 | Faculty of Law | 11.950 | 10.500 | 9.717 |
| 12 | Faculty of Commerce | 38.125 | 32.500 | 36.170 |
| 13 | Faculty of Oriental Learning | 4.100 | 3.400 | 3.281 |
| 14 | Faculty of Islamic Studies | 6.655 | 7.500 | 7.960 |
| 15 | Faculty of Education | 1.830 | 2.000 | 2.027 |
| 16 | Gujranwala Campuses | 19.058 | 26.800 | 42.676 |
| 17 | Jhelum Campus | 8.339 | 7.450 | 13.390 |
| 18 | Faculty of Health Sciences | - | 2.000 | 2.062 |
| 19 | Skill Development Centre | 3.325 | 0.600 | 1.296 |
| 20 | Foreign Students | 30.000 | 25.000 | 20.693 |
| 21 | Hostels Admission Fee & Room Rent | 9.500 | 9.500 | 9.495 |
| 22 | Rents Collection | 61.900 | 71.000 | 79.240 |
| 23 | Publication | 28.800 | 28.100 | 38.900 |
| 24 | Utility Charges (Recovery) | 269.550 | 264.000 | 272.298 |
| 25 | Income from Quaid-e-Azam Campus | 62.000 | 56.800 | 56.340 |
| 26 | Endowment Funds Income | 300.000 | 271.000 | 274.477 |
| 27 | Miscellaneous Income | 82.800 | 68.000 | 101.588 |
| | Total Income for the Year | 6,773.057 | 6,863.306 | 7,060.768 |
| | Total Funds Available | 6,773.057 | 6,863.306 | 7,148.318 |



| Sr.No. | Head of Expenditure | Original 2017-18 | Revised 2017-18 | Actual 2017-18 |
|--------|---|---------------------|--------------------|-------------------|
| 1 | General Administration | 426.856 | 397.067 | 367.495 |
| 2 | Department of Examinations | 1,139.881 | 1,047.267 | 819.933 |
| 3 | Faculty of Behavioral & Social Sciences | 185.728 | 170.921 | 159.385 |
| 4 | Faculty of Eco. & Management Sciences | 212.732 | 189.911 | 177.423 |
| 5 | Faculty of Arts & Humanities | 208.851 | 192.885 | 180.498 |
| 6 | Faculty of Science | 799.620 | 700.449 | 650.618 |
| 7 | Faculty of Life Sciences | 428.603 | 405.151 | 385.076 |
| 8 | Faculty of Engineering & Technology | 278.457 | 243.651 | 223.733 |
| 9 | Faculty of Pharmacy | 108.319 | 90.129 | 81.457 |
| 10 | Faculty of Law | 107.433 | 96.871 | 88.880 |
| 11 | Faculty of Commerce | 172.309 | 157.083 | 144.166 |
| 12 | Faculty of Oriental Learning | 183.288 | 157.362 | 147.469 |
| 13 | Faculty of Islamic Studies | 81.297 | 73.544 | 67.373 |
| 14 | Faculty of Education | 63.593 | 58.152 | 54.658 |
| 15 | Sub Campuses | 154.260 | 136.434 | 114.556 |
| 16 | Faculty of Health Sciences | 309.432 | 208.212 | 182.508 |
| 17 | Improvement of Education | 778.339 | 589.392 | 500.825 |
| 18 | Sports & Games | 41.289 | 39.103 | 36.417 |
| 19 | University Hostels | 127.108 | 125.943 | 113.017 |
| 20 | Department of Press & Publication | 56.672 | 53.211 | 49.257 |
| 21 | Campus Corporation | 317.566 | 287.444 | 264.405 |
| 22 | Maintenance of Land & Garden | 201.157 | 199.170 | 181.822 |
| 23 | Engineering Dept. & Maint. of Buildings | 468.075 | 337.894 | 267.146 |
| 24 | Utility Charges | 368.330 | 370.930 | 341.389 |
| 26 | Miscellaneous | 117.761 | 115.130 | 89.648 |
| 27 | Students Benefits | 204.590 | 198.265 | 227.318 |
| 28 | Pension & Employees Benefits | 1,483.504 | 1,398.954 | 1,205.615 |
| | Total Expenditure for the year | 9,025.050 | 8,040.525 | 7,122.087 |
| | Surplus / (Deficit) for the year | (2,251.993) | (1,177.219) | (61.319) |
| | Closing Balance | | | 26.231 |



○ **Finance year at Glance**

(i) The University started financial year 2017-18 with projected deficit of Rs.2,251.993 Million. Main reason for the deficit was increase in salaries over the three years not compensated with increase in Government Grants. To meet with the deficit, multifaceted plans were initiated. Which were:

- a) H.E.C was requested to provide additional funding for increase in salaries.
- b) Self-generation of income from existing resource was focused.
- c) New hiring was restricted to only in essentially required cases.
- d) Certain expenses were curtailed.

(ii) Financial year 2017-18 closed with contributions of Rs.81.520 Million to Endowment funds and closing balance of Rs. 26.231 million.

○ **Development Budget**

Development expenditure of Rs.179.281 Million was incurred on development of buildings and structures and purchase of Equipment, Furniture, Computers, Software's.

○ **Actual Expenditure**

Following are the details of actual expenditure for the year 2017-18:

| S.No | Description | Amount (Rs. in Million) |
|--------|--|----------------------------|
| (i) | Pay & Regular Allowances | 3262.121 |
| (ii) | Other Benefits & Facilities | 1050.103 |
| (iii) | Pension | 1046.977 |
| (iv) | Contribution to Pension Endowment | 81.520 |
| (v) | Conduct & Remuneration of Examinations | 440.269 |
| (vi) | Utility Charges | 450.413 |
| (vii) | Lumpsum Provision for Research | 71.802 |
| (viii) | Scholarships (Faculty / Students) | 252.167 |
| (ix) | Other Current Expenditures | 287.534 |
| (x) | Development Expenditures | 179.181 |
| | Total: | 7,122.087 |



○ **Self-Generated Income**

Self-generated income of the University of the Punjab comprised of four major sources is as under:

(Amount Rs. in Million)

| | |
|---|----------------------------|
| On-Campus students | Rs. 464.878 |
| Off-Campus students | Rs.3,192.166 |
| Other Income from land and other activities | Rs. 557.861 |
| Endowment funds | <u>Rs. 274.477</u> |
| Total: | <u>Rs.4,489.382</u> |

○ **Trend of per student spending**

| Year | Annual Operational Expenses (Rs.) | Total on-campus regular students | Annual expenses per student (Rs.) |
|---------|-----------------------------------|----------------------------------|-----------------------------------|
| 2016-17 | 6,430,005,000 | 23,434 | 274,388 |
| 2017-18 | 6,942,906,000 | 22,518 | 308,327 |



Chapter
13

UNIVERSITY GOVERNANCE

- *Heads of Administrative Departments*
- *Syndicate Meetings*
- *Academic Council Meetings*
- *Board of Advanced Studies Meetings*


CHAPTER
13

University Governance

UNIVERSITY GOVERNANCE

Chief Executives

| | |
|---------------------|--------------------------------|
| Chancellor | Malik Muhammad Rafique Rajwana |
| | Ch. Muhammad Sarwar |
| Pro Chancellor | --- |
| Vice Chancellor | Prof. Dr. Niaz Ahmad AKhtar |
| Pro Vice Chancellor | --- |

Deans

| Sr. No | Faculty | Name | Date of Appointment |
|--------|--|------------------------------------|---------------------|
| 1 | Faculty of Arts & Humanities | Prof. Dr. Muhammad Iqbal Chawla | 19.10.2015 |
| 2 | Faculty of Behavioral & Social Sciences | Prof. Dr. Muhammad Zakria Zakar | 16.08.2018 |
| 3 | Faculty of Economics & Management Sciences | Prof. Dr. Nasira Jabeen | 29.02.2016 |
| 4 | Faculty of Islamic Studies | Prof. Dr. Tahira Basharat | 28.04.2014 |
| 5 | Faculty of Engineering & Technology | Prof. Dr. Muhammad Taqi Zahid Butt | 27.07.2015 |
| 6 | Faculty of Pharmacy | Prof. Dr. Khalid Hussain | 28.11.2015 |
| 7 | Faculty of Education | Prof. Dr. Mumtaz Akhtar | 13.03.2014 |
| 8 | Faculty of Oriental Learning | Prof. Dr. Muhammad Saleem Mazhar | 20.06.2017 |
| 9 | Faculty of Commerce | Prof. Dr. Mubbasher Munawar Khan | 12.06.2018 |
| 10 | Faculty of Law | Prof. Dr. Muhammad Zakria Zakar | 05.05.2015 |
| 11 | Faculty of Sciences | Prof. Dr. Shahid Kamal | 16.12.2014 |



Heads of Administrative Departments

| | | |
|-------------------------------|-------|--|
| 1. Vice-Chancellor | (i) | Dr. Zaffar Mueen Nasar (19.12.2016 to 06.01.2018) |
| | (ii) | Prof. Dr. Muhammad Zakria Zakar (09.01.2018 to 21.04.2018) |
| | (iii) | Prof. Dr. Nasira Jabeen (27.04.2018 to 07.06.2018) |
| | (iv) | Prof. Dr. Niaz Ahmad Akhtar (08.06.2018 to date) |
| 2. Pro-Vice-Chancellor | | Vacant |
| 3. Registrar | | Dr. Muhammad Khalid Khan Director, Human Resource Department (HRD) (Additional assignment from 02.03.2017 to date) |
| 4. Treasurer | (i) | Rao Muhammad Sharif Additional Treasurer (Additional assignment from 06.03.2012 to 08.09.2015) (On contract from 09.09.2015 to 13.03.2018) |
| | (ii) | Rao Muhammad Tahir Rafique Additional Treasurer (Additional assignment from 14.03.2018 to date) |
| 5. Controller of Examinations | (i) | Prof Dr. Shahid Munir Director, Centre for Cool Technology (Additional assignment from 13.10.2014 to 22.02.2018) |
| | (ii) | Prof Dr. Sajid Rashid Principal, College of Earth & Environmental Sciences (Additional assignment from 23.02.2018 to 30.07.2018) |
| | (iii) | Mr. Muhammad Rauf Nawaz Additional Controller (Additional assignment from 31.07.2018 to date) |
| 6. Chief Librarians | | Dr. Muhammad Haroon Usmani (19.10.2017 to date) |



| | | |
|--|-------|---|
| 7. Chief Medical Officer | | Dr. Tehseen Zamir Ali Deputy Chief Medical Officer (Additional assignment from 29.12.2015 to to 19.05.2019) |
| 8. Chairman, Hall Council | (i) | Prof. Dr. Abid Hussain Ch. Chairman, Department of Secondary Education (IER) (Additional assignment from 26.08.2015 to 04.03.2018) |
| | (ii) | Prof. Dr. Muhammad Iqbal Chawla Dean, Faculty of Arts & Humanities (Additional assignment from 05.03.2018 to 08.05.2018) |
| | (iii) | Prof. Dr. Abid Hussain Ch. Chairman, Department of Secondary Education (IER) (Additional assignment from 09.05.2018 to date) |
| 9. Director, Directorate of Student Affairs | (i) | Mr. Shahid Mahmood Gul Assistant Professor Department of Philosophy (Additional assignment from 29.01.2014 to 04.03.2018) |
| | (ii) | Mr. Iftikhar Ahmad Ch. Chief Pharmacist, PU Teaching Hospital (Additional assignment from 05.03.2018 to 17.08.2018) |
| | (iii) | Dr. Asmatullah Associate Professor, Department of Zoology (Additional assignment from 18.08.2018 to date) |
| 10. Resident Officer-I | (i) | Mr. Iftikhar Ahmad Ch. Chief Pharmacist, PU Teaching Hospital (Additional assignment from 03.06.2018 to 20.08.2018) |
| | (ii) | Mr. Jaleel Tariq Deputy Registrar (General) (Additional assignment from 31.08.2018 to date) |
| 11. Resident Officer-II | | Malik Muhammad Zaheer (14.10.2000 to date) |



| | | |
|---|-------|---|
| 12. Chief Engineer | (i) | Mr. Umair Latif Development Engineer (Additional assignment from 12.06.2017 to 18.01.2018) |
| | (ii) | Dr. Syed Nadir Hussain Assistant Professor Institute of Chemical Engineering & Technology (Additional assignment from 19.01.2018 to 09.04.2018) |
| | (iii) | Mr. Faiz ul Hassan Sipra University Engineer & Architect (Additional assignment from 10.04.2018 to date) |
| 13. Director, P&D Wing | (i) | Mr. Muhammad Sharif Acting Treasurer (Additional assignment from 13.01.2017 to 20.02.2018) |
| | (ii) | Mr. Shabbir Sarwar Assistant Professor, Institute of Communications Studies (Additional assignment from 21.02.2018 to 31.05.2018) |
| | (iii) | Rao Muhammad Tahir Rafique Additional Treasurer (Additional assignment from 01.06.2018 to date) |
| 14. Director, Press & Publications | | Mr. Amjad Pervez Assistant Professor, College of Art & Design (Additional assignment from 25.04.2012 to date) |
| 15. Director, I.T. Centre | | Mr. Imran Qureshi (01.12.2009 to date) |
| 16. Director, Public Relations | | Vacant |
| 17. Director, Directorate of External Linkages | (i) | Dr. Fozia Hadi Ali Assistant Professor, Hailey College of Commerce (Additional assignment from 13.05.2017 to 22.07.2018) |
| | (ii) | Prof. Dr. Kanwal Ameen Department of Information Management (Additional assignment from 23.07.2018 to 31.05.2019) |



18. Public Relations Officer

Mr. Khurram Shahzad
(on contract basis 03.02.2011 to 18.10.2015)
(on regular basis 19.10.2015 to date)

19. Resident Auditor

Mr. Muhammad Zafar Iqbal
Government of the Punjab, Finance Department
Town Accounts Officer, TMA, Samnabad Town
Lahore. (on deputation from 18.03.2016 to date)



Directors

| Sr. No | Departments | Name | Date of Appointment |
|--------|--|----------------------------------|---------------------|
| 1 | Institute of Administrative Sciences | Prof. Dr. Nasira Jabeen | 15.09.2015 |
| 2 | Institute of Business Administration | Mrs. Sajida Nasir | 25.06.2015 |
| 3 | Social & Cultural Studies | Prof. Dr. Muhammad Zakria Zakar | 04.04.2015 |
| | | Prof. Dr. Rubeen Zakar | 16.08.2018 |
| 4 | Institute of Communication Studies | Dr. Nosheena Saleem | 13.02.2013 |
| 5 | Director General P.U Gujranwala Campus | Dr. Sayyid Salman Rizvi | 25.06.2015 |
| 6 | Institute of Agricultural Sciences | Prof. Dr. Muhammad Saleem Haider | 14.03.2014 |
| 7 | Centre for Clinical Psychology | Dr. Saima Dawood | 06.03.2018 |
| 8 | Institute of Chemical Engineering & Technology | Prof. Dr. Abdullah Khan Durrani | 24.11.2017 |
| 9 | Institute of Quality & Technology Management | Dr. Muhammad Usman Awan | 16.08.2018 |
| 10 | Sheikh Zayed Islamic Centre | Dr. Muhammad Ijaz | 21.03.2009 |
| 11 | Institute of Education & Research | Prof. Dr. Rafaqat Ali Akbar | 21.02.2017 |
| 12 | Institute of Biochemistry & Biotechnology | Dr. Saima Sadaf | 14.07.2018 |
| 13 | Institute of Chemistry | Prof. Dr. Muhammad Abdul Qadir | 25.09.2018 |
| 14 | Institute of Geology | Dr. Shahid Jameel Samani | 29.03.2018 |
| 15 | Centre for High Energy Physics | Dr. Bilal Masood | 30.05.2014 |
| 16 | Centre for Undergraduate Studies | Prof. Dr. Faheem Aftaab | 21.02.2017 |
| 17 | Centre for Coal Technology | Prof. Dr. Shahid Munir | 02.12.2014 |
| 18 | Institute of Languages | Mr. Ashok Kumar Khatri | 14.07.2019 |
| 19 | School of Physical Sciences | Mr. Zafar Iqbal Butt | 02.06.2014 |
| 20 | Pakistan Study Centre | Prof. Dr. Muhammad Iqbal Chawala | 06.08.2018 |
| 21 | Centre for South Asian Studies | Prof. Dr. Umbreen Javed | 08.02.2011 |
| 22 | Centre for Solid State Physics | Dr. Saira Riaz | 07.09.2018 |
| 23 | School of Biological Sciences | Prof. Naeem Rashid | 01.09.2016 |
| 24 | Centre for Social Sciences Research | Dr. Riffat Munawar | 28.03.2013 |
| 25 | Institute of Business & Information Technology | Dr. Aamir Sarwar | 20.10.2014 |
| 26 | Career Counseling & Placement Centre | Dr. Abdul Qayyum Chaudhry | 17.04.2015 |
| 27 | Centre for Geographical Information System | Prof. Dr. Sajid Rashid Ahmad | 31.10.2014 |
| 28 | Centre for Excellence in Molecular Biology | Dr. Tayyab Husnain | 12.01.2015 |
| 29 | Centre for Integrated Mountain Research | Dr. Munawar Sabir | 13.08.2018 |
| 30 | Centre for Applied Molecular Biology | Dr. Aleena Sumrin | 21.06.2018 |



Chairmen/Chairpersons

| Sr. No | Departments | Name | Date of Appointment |
|--------|--|----------------------------------|---------------------|
| 1 | Department of History | Prof. Dr. Muhammad Iqbal Chawla | 01.03.2013 |
| 2 | Department of Archaeology | Dr. Muhammad Hameed | 02.02.2018 |
| 3 | Department of Philosophy | Dr. Shagufta Begum | 04.04.2013 |
| 4 | Department of Islamic Studies | Prof. Dr. Muhammad Saad Siddiqui | 31.12.2013 |
| 5 | Department of Economics | Prof. Dr. Mumtaz Anwar Ch. | 28.06.2018 |
| 6 | Department of Social Work | Miss. Bushra Naheed | 11.02.2013 |
| 7 | Department of Political Sciences | Prof. Dr. Umbreen Javed | 15.05.2010 |
| 8 | Department of Information Management | Prof. Dr. Khalid Mahmood | 25.05.2018 |
| 9 | Department of English & Language Literature | Dr. Amra Raza | 01.10.2014 |
| 10 | Department of Arabic | Prof. Dr. Khaliq Dad Malik | 22.03.2014 |
| 11 | Department of Persian | Prof. Dr. Muhammad Saleem Mazhar | 14.05.2016 |
| 12 | Department of Urdu | Prof. Dr. Zahid Munir Aamir | 01.07.2018 |
| 13 | Department of Punjabi | Prof. Dr. Nabeela Rehman | 16.08.2017 |
| 14 | Department of Kashmiryat | Dr. Nusrat Nisar | 27.08.2012 |
| 15 | Department of Applied Psychology | Prof. Dr. Farah Malik | 23.06.2018 |
| 16 | Department of Mathematics | Prof. Dr. Muhammad Sharif | 16.05.2013 |
| 17 | Department of Geography | Prof. Dr. Safdar Ali Sherazi | 13.08.2018 |
| 18 | Department of Metallurgy & Material Engineering. | Prof. Dr. Rafiq Ahmad | 23.06.2011 |
| 19 | Department of Botany | Prof. Dr. Muhammad Saleem | 23.02.2014 |
| 20 | Department of Microbiology & Molecular Genetics | Prof. Dr. Anjum Nasim Sabri | 18.05.2014 |
| 21 | Department of Physics | Dr. Mahmood ul Hassan | 15.07.2018 |
| 22 | Department of Space Science | Mr. Javed Sami | 01.07.2018 |
| 23 | Department of Zoology | Prof. Dr. Javed Iqbal Qazi | 02.04.2018 |
| 24 | Department of Electrical Engineering | Prof. Dr. Rafiq Ahmad | 25.06.2010 |
| 25 | Department of Textile Engineering & Technology | VACANT | - |
| 26 | Department of Polymer Engineering & Technology | VACANT | - |
| 27 | Urdu Development Committee (Convener) | Prof. Dr. Muhammad Kamran | 16.10.2014 |
| 28 | Department of Special Education | Dr. Humara Bano | 27.03.2012 |
| 29 | Department of Gender Studies | Dr. Raana Malik | 31.10.2017 |
| 30 | Department of French | Dr. Saleha Nazeer | 29.01.2010 |



Principals

| Sr. No | Colleges | Name | Date of Appointment |
|--------|--|--|---------------------|
| 1 | College of Engineering & Emerging Technologies | Prof. Dr. Rafiq Ahmad | 10.09.2011 |
| 2 | University College of Pharmacy | Prof. Dr. Nadeem Irfan Bukhari | 27.11.2015 |
| 3 | University Law College | Dr. Shazia Qureshi | 18.04.2014 |
| 4 | Hailey College of Commerce | Prof. Dr. Hassan Mobeen Alam | 10.08.2014 |
| 5 | Hailey College of Banking & Finance | Prof. Dr. Mubasher Munawar Khan | 13.08.2014 |
| 6 | College of Statistical & Actuarial Sciences | Prof. Dr. Shahid Kamal | 21.12.2015 |
| 7 | College of Earth & Environmental Sciences | Prof. Dr. Sajid Rashid Ahmad | 03.08.2015 |
| 8 | Punjab Univ. College of Information Technology | Dr. Syed Mansoor Sawar | 10.11.2010 |
| 9 | University College of Art & Design | Prof. Dr. Shahida Manzoor | 08.08.2014 |
| 10 | University Oriental College | Prof. Dr. Muhammad Fakhar ul Haq Noori | 02.02.2016 |



Meetings of Various Bodies of the University

The detail of meetings of various bodies of the University of the Punjab conducted by the Meetings Section from 1st October, 2017 to 30th September, 2018 are as under:-

| Sr. No. | Statutory Body | No. of Meetings | Date |
|---------|-----------------------------------|-----------------|--|
| 1. | Senate | 01 | 09-08-2018 |
| 2. | Syndicate | 05 | 14-02-2018 28-03-2018 14-04-2018 30-06-2018 16-08-2018 |
| 3. | Academic Council | 02 | 11-04-2018 06-08-2018 |
| 4. | Advanced Studies & Research Board | 16 | 04-10-2017 05-10-2017 18-10-2017 30-11-2017 15-12-2017 27-12-2017 22-01-2018 21-02-2018 22-02-2018 27-03-2018 15-05-2018 05-06-2018 06-06-2018 03-08-2018 05-09-2018 12-09-2018 |

Selection Boards

35 meetings of the Selection Board were held during the period (1st October 2017 to 30th September 2018). The detail of the appointments is as under:-

| Professor | Associate Professor | Assistant Professor | Lecturer | Non-Teaching (BS-17 & above) | Total |
|-----------|---------------------|---------------------|----------|------------------------------|------------|
| 23 | 29 | 50 | 64 | 43 | 209 |



Chapter
14

**OFFICE OF RESOURCE
GENERATION/DEVELOPMENT**

- *Initiatives and implementation*
- *Future plans*



CHAPTER

14

Office of Resource Generation/Development

Office of Resource Generation/Development

Planning & Development wing is a department of the University through which all spheres of activities are planned, controlled and put into developmental operations. The wing is flourishing under the tutelage of Rao. Muhammad Tahir Rafique, Director Planning & Development. The Wing is currently Monitoring & Evaluating all the Development Projects Funded by both Federal and Provincial Government. It also prepares the Telephone Directory and compiles all type of Statistics Data related to the University. The compiled data is forwarded to different stakeholders like Higher Education Commission etc. which in term manipulates the collected data for ranking of University throughout Pakistan.

During 2017-18, the Planning & Development Wing monitored the three (3) on going federally funded projects as per following details:

Ongoing projects Funded by Federal Government (HEC)

| Sr. | Name of the Projects | Total Cost (Rs. In Million) |
|-----|--|-----------------------------|
| 1. | Capacity Building and Upgradation of Selected Departments, University of the Punjab, Lahore. | 834.188 |
| 2. | Strengthening of Academic and Research Programs at University of the Punjab, Lahore. | 976.530 |
| 3. | National Centre for Artificial Intelligence | 1098.387 |

During 2017-18, P&D Wing has proposed Higher Education Commission One (1) new Project to be included in Public Sector Development Program (PSDP) as per following details

| Sr. | Name of the Projects | Total Cost (Rs. In Million) |
|-----|--|-----------------------------|
| 1. | Modernization & Up Lifting of Selected Departments at University of the Punjab | 2860.200 |

Statistical data Collection during 2017-18

| Sr.# | Task Accomplished |
|------|---|
| 1. | Collection of Annual Statistical Data 2017 |
| 2. | Compilation of Telephone Directory 2017-18 |
| 3. | Collection of data for Annual Report of 2015-16 & 2016-17 |
| 4. | Laptop Distribution under Prime Minister Laptop Scheme |



Chapter
15

HEALTH CENTRE & MEDICAL FACILITIES

- *Medical Facilities available*
- *Counseling for Stress Reduction*

**CHAPTER**
15**Health Centre & Medical Facilities****Health Centre / Medical Facilities**

Punjab University Health Centre is providing medical cover to about 9000 University employees & their families and about 5000 resident students. The University Health Centre is functioning six days a week under the directive of the Vice-Chancellor in order to provide maximum facilities to the University patients.

Average daily attendance in the out door clinic of the University Health Centre is about 250 patients. We have stopped providing general medication since January, 2011. A fully equipped Emergency Centre is functioning round the clock. With the establishment of Emergency Centre the University patients are being provided emergency care within the campus and very few patients with critical conditions have to be referred to Government hospitals.

Services of the Diabetic Clinic in the University Health Centre has also been improved. At present there are 1305 patients registered with the Diabetic Unit. Medical record of all these patients has been computerized and efforts are being made to control diabetes in these patients.

In 2018, 214 patients were provided comprehensive Cardiac treatment at Punjab Institute of Cardiology. Similarly 314 patients were referred to Shaukat Khanum Memorial Cancer Hospital for treatment of Malignant diseases. This year 539 patients were referred to Sheikh Zayed Hospital for treatment.

The Health Centre is also equipped with Digital X-Ray and latest Ultrasonography machine. Radiology Section attends 10 to 15 patients for X-Ray as well as 7 to 10 patients for Ultrasonography per day.

Gynaecological and ante natal management:

It is working 6 days a week. It includes prenatal counseling, antenatal record maintenance with regular follow up of patients and giving postnatal advice to the patients. It is very helpful in early detection of complications and warning signs of pregnancy and ensuring a healthy pregnancy outcome. Obstetrical out patients department is also equipped with sonic aid for fetal heart rate monitoring in high risk cases.

Eye Unit of the Health Centre is equipped with latest machines. One Ophthalmologist is providing his services to the University patients.



Physiotherapy Unit has also been established. Six to eight patients are being provided physiotherapy treatment every day.

One Senior Medical Officer is deputed at Allama Iqbal Campus (AIC). He provides medical aids to students and employees working in different departments at Allama Iqbal Campus. The Chief Medical Officer also visits AIC once a week.

50 to 60 patients including students, employees visit to the Laboratory for different tests. After getting admission in the University, 3464 students have visited the Health Centre this year for Hepatitis screening. Out of which 41 were found HBS-Ag positive and 55 HCV positive. One Hundred and Six patients received treatment for Hepatitis-B and Hepatitis-C from the Health Centre.

A full fledged Pharmacy is working in the Health Centre under the supervision of two Pharmacists.

At present the Health Centre has two ambulances. This Centre provides transportation facilities to the University patients. These ambulances also take dead bodies to their native towns for funeral ceremonies.

Shaukat Khanam Memorial Cancer Hospital and Mid-City (Cardex) Centre are already providing diagnostic facilities to the University patients. On request of the Chief Medical Officer, few more Diagnostic Centres have been included this year at Lahore and Gujranwala of Shaukat Khanam Memorial Cancer Hospital to facilitate the University patients.

After approval of the Syndicate, the Health Centre started to provide medical cover to the **'parents'** residing with the employees and wholly dependent on them.

Student Counseling & Assessment Services Centre was established in 2009 as joint venture of Punjab University Teaching Hospital and Institute of Applied Psychology University of the Punjab. The counseling services are offered to the bona fide students of Punjab University by trained clinical psychologists, especially for stress reduction. In severe cases psychiatric help is also sought from psychiatrist at Health Center or referral to other hospital. The total number of registered students for counseling services is around 750 up till.



Chapter

16

**FACILITIES OF THE UNIVERSITY
&
IMPROVEMENTS**

**CHAPTER****16****Facilities of the University & Improvements****Facilities of the University & Improvements****HUMAN RESOURCE BRANCH**

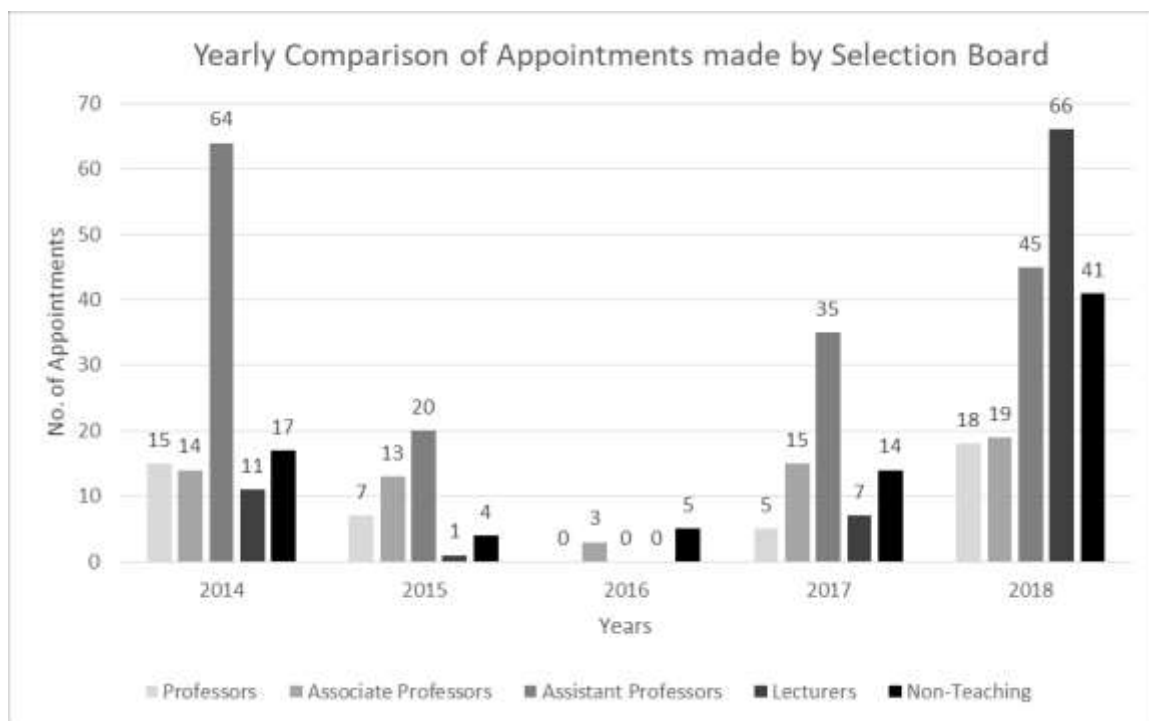
Human Resources Branch was established in October 2008 in order to streamline the appointment procedure of teaching faculty/administrative staff. Following are major functions of the Branch:-

- Publishing of advertisements
- Receiving/processing applications
- Conduction the Selection Boards
- Issuance of appointment orders

Till to time, 26 advertisements for appointment of teaching faculty and administrative posts (BS-17 & above) have been floated in the print media. Against these advertisements, 23,559 were received which were scrutinized, processed and then forwarded to the concerned Deans for determination of eligibility.

After getting their eligibility by the concerned Deans/Officers, the office prepares their Assessment Sheets based on their academic qualification marks and short list the candidates. In case of the appointments of Professor/Associate Professors office contact with the foreign/local subject experts for getting their expert opinion. And when the cases ready to place before the Selection Board, the eligible and short listed candidates are issued call letters for interview, after getting approval from the authorities.

Since the creation of the Branch, 225 meetings of the Selection Board have been conducted. The breakup of the appointments made by the Selection Boards in the last five years is as under:



AFFILIATION BRANCH

Affiliation Branch, University of the Punjab deals with the affairs related to grant of affiliation, extension in affiliation, addition in affiliation, de-affiliation etc of the Public and Private sector colleges for various degrees/disciplines.

The work of Affiliation Branch includes receipt of applications from the colleges (Public or Private), scrutiny of these applications, planning and arrangement of visits of Affiliation Committee to these colleges, preparation of proceeding of visits of Affiliations Committee and then issuance of office orders to the colleges after formal approval by the competent authority.

A brief summary of tasks carried out by the Affiliation Branch during the period 01.10.2017 to 30.09.2018 is outlined in the tabular form below:

| Sr. | Task | for the year |
|-----|--|--------------|
| 1 | Total colleges visited | 509 |
| 2 | Fresh Affiliation granted | 53 |
| 3 | Fresh affiliation not granted | 08 |
| 4 | Addition / extension / increase in intake granted | 443 |
| 5 | Addition / extension / increase in intake not granted | 08 |
| 6 | De-affiliation / withdrawal of affiliation / suspension of | 09 |



DEPARTMENT OF EXAMINATIONS

The Department of Examinations is a major earning Department of University of the Punjab. The whole system of Examinations is computerized. More than 305 Examinations are conducted every year with strength of about 0.5 million students. The detail of achievement is as under:-

Controller's Personal Section

The nature of work of this section is quite sensitive and multi-dimensional. 22025 & 23119 letters complaints were entered in the Diary Register and were disposed off accordingly. E-mail accounts were handled. 2230 & 11184 documents were attested for HEC. Arrangement of Monitoring of Examinations Centers of B.A / B.Sc, M.A / M.Sc, B.Ed Commerce Law etc were made. Monitoring team of University Teachers were constituted and daily visit programme of Examinations Centers for those teams were prepared / checked out. Advances for fuel and toll tax etc for monitoring cars were drawn and their adjustments deposited. Bills of monitoring teams were also processed in this section. Enquiries were dealt through telephonic calls, fax machine and also through Open door policy. Schedules of meeting were announced. Thousands of degrees and other necessary documents were signed by the Controller of Examinations and Addl. Controller of Examinations as well. Daily dak and public inquiries relating to Exams, results degrees problems are also dealt within the personal section. 670 T.A / D.A. bills of Resident Inspector, Monitoring teams of various Examinations were processed. 300 PhD thesis were received for evaluation. 125 letters and reminders were dispatched to M.S., M.D. & M.D.S thesis Examination. 15 M.S. cases sent to Secrecy Branch after completion. 4000 letters were dispatched to the Resident Inspector & Monitoring Team. 1200 Police Administration letters were issued. 65970 & 10500 degrees were signed by the Controller of Examinations. 180 thesis were sent to HEC for record. 700 remuneration bills of Ph.D thesis to Examinations evaluation were processed.

Server Room and General Section

This section dealt lot of matters related to staff working under Controller of Examinations i.e. processing of all type of leave cases, joining reports, relieving reports, processing of Bills of staff and vendors, matters of Convocations, arrangements of local purchase committee meeting, 4 meeting were conducted during this period. Receiving of all kinds of stationary items from the main store at various times this practice repeated and got received by the sections concerned, other materials which are purchase from the local market through vendors be reserved many times for maintain little stocks for emergency use. Preparation of all kinds of reports as and when required, all matters relating to engineering branch, receiving of blank result cards from the Press after proper counting by the deputed person. In short, this section provides technical and non-technical support to all the sections working under Controller of Examinations.

In order to make examination system online, 15MB dedicated link was purchased and deployed. This will enable department for online form submission in future.



Camera network is further expended and 107 nos. of cameras were installed not only to strengthen security aspect but also monitoring of critical section is enhanced.

Furthermore Troubleshooting of equipment, 2000 to 2200 queries were dealt as of installation of windows, Software and hardware. The vendors were contacted in time for claiming warranties and repair. Two R730 Servers were purchased and deployed to improve network infrastructure of department.

Conduct Branch

Conduct Branch of Department of Examinations is assigned with the major task of carrying out all those steps which are involved in the conduct of any exam, local or abroad. It starts the process of any exam from the scratch and works earnestly until the exam is terminated successfully. The Conduct Branch is to make arrangements for the conduct of more than 700 Exams (Theory + Practical) in a year. The working of the Branch is being summarized as under.

| Sr | Period | Theory Exams | Practical Exams | Written Centres | Practical Centres | Q/Paper Packets | DI's | Supts | Adl. Supts | Invig | Ans. Books Theory | Ans. Books Practical | Foreign Exams |
|----|--|--------------|-----------------|-----------------|-------------------|-----------------|------|-------|------------|-------|-------------------|----------------------|---------------|
| 1 | 01 st October 2017 to 30 th September 2018 | 460 | 270 | 1272 | 736 | 98000 | 377 | 1272 | 1272 | 7050 | 227,1900 | 220,000 | 133 |

Secrecy Branch

▪ B.A./B.Sc. Script Section

During the period of 1st October 2017 to 30th September, 2018 the B.A. / B.Sc. Script Section arranged the following exams:-

1) B.A/B.Sc. Supplementary 2017

Part-I : 22-Local Centers 85-Mufassil Centers
 Part-II : 18-Local Centers 68-Mufassil Centers

2) B.A/B.Sc. Annual Examination 2018

Part-I : 395-Local Centers / Mufassil Centers
 Part-II : 209-Local Centers / Mufassil Centers



3) B.A/B.Sc. (Composite) Annual Examination 2018

126-Local Centers / Mufassil Centers

4) B.A/B.Sc. Practical Examination 2018

735-Local Centers / Mufassil Centers

The result of B.A. / B.Sc. Annual Examination 2018 was declared on 10-09-2018

■ M.A./M.Sc. Section

The results of M.A./M.Sc. Part-I and Part-II Annual Examination 2018 in all subjects have been declared and 1600 R.L. cases were also cleared in a very short period. M.A./M.Sc. Part-I Annual Examination 2018 in 32 different subjects at 172 local and mofussil examination centres was conducted in the month of July 2018. Furthermore, M.A./M.Sc. Part-II in 33 different subjects was also conducted at 171 local and mofussil examination centres in the month of June 2018. 29 Special Examinations (Urdu, Political Science, Economics, Persian, English & History etc.) of M.A. Annual Examinations 2017 & Supply 2017 were held in Kuwait, U.K., K.S.A, Canada, Germany, U.S.A., Qatar, Sharjah, Jeddah, Madina, Norway, Portugal, Taif and (U.A.E). Their results have been declared.

■ Professional Section

About 110 Professional Examinations of different diplomas, certificates, etc., in the fields of Medical, Engineering, Commerce, Home Economics, Dentistry, Pharmacy, B.S. 4 Years Program, M.Com, M.B.A. etc. were held during October 2017 to September 2018. In addition to these examinations B.Ed., B.S.Ed. (1st, 2nd & 3rd Prof.), Diploma in Physical Education, M.Ed. Elementary / Secondary/General, M.Ed. visual impairment were also conducted in October, 2017 and February, March 2018 and their results have been declared. Scripts were received from examination centres, processed and were dispatched to examiners for marking. Marked scripts were kept in the section. About 10590 R.L. and R.F.C. cases and 110 different other cases pertaining to above mentioned examinations and about 600 Re-checking cases were settled during this period.

■ B.Com. & Law Scripts Section

It is pointed out that central marking of B.Com. Part-I and B.Com. Part-II Supplementary 2017 & B.Com. Part-I & II Annual Examination 2018 was conducted in the new building of Admin Block, University of the Punjab, Lahore. The results of B.Com Part-I and Part-II Supplementary Examination 2017 and B. Com Part I, and II Annual Examination 2018 have been declared well in time. Central marking of LLB Part-I,II&III Supplementary Examination 2017 and LLB Part I,II &III Annual Examination 2018 was also conducted in the new building of Admin Block, University Lahore. B.Com Part-I supplementary 2017, 12 R.L. Cases R.F.C 537 & 62 Re-checking case. B.Com Part-II supplementary 2017 08 R.L. Cases R.F.C. 680 & 129 Re-checking cases. LLB Part-I,II& III supplementary 2017 05 R.L. Cases R.F.C. 538 & 52



Re-checking cases. B.Com Part I Annual 2018 119 R.L Cases. R.F.C 4764 & 44 Re.-checking cases. B.Com Part II Annual 2018. 50 R.L Cases R.F.C 3749 & 119 Re-checking cases. LLB Part I, II, & III and LL.B. 5-year Annual 2018 32 RL. Cases R.F.C 4828 & 186 Re-checking cases.

▪ **Dispatch and Receipt Section**

During the above mentioned period, the Diary & Dispatched section received and dispatch bundles of different exams. The details are as under:

- Received Bundles from Local and Mofussil Centers.

B.A / B.Sc. 994-Centers

M.A / M.Sc 343-Centers

- **Dispatch packets to the Examiners in different exams.**

31201-Packets

▪ **Re-Checking Section**

Detail of Re-checking cases received and processed during the period from October 2017 to September 2018 is given below: -

1. B.A./B.Sc. cases: 1044

2. M.A./M.Sc. & Professional 1031

Total: 2075

All the cases have been disposed off.

▪ **Secrecy Section-II & III**

This section is dealt with the most sensitive and confidential nature of work of the Department of Examinations, University of the Punjab. The examiners are provided by the Conveners of various subjects or disciplines. The lists of examiners and paper setters got approved from Worthy Vice-Chancellor before sending appointment letters to examiners concerned. The appointments of Paper Setters, head, sub and Practical Examiners for all the theory and practical examinations local and abroad are made by this section. Substitutes are also provided by the conveners in case of refusal from the examiners or paper setters of any discipline.

The question papers of all the examinations got set from the paper setters for written and practical contingent bills of paper setters/examiners are sent to the Accounts Branch duly recommended by the Controller of Examinations for payment to the examiners. Central marking of following examinations is also deal with i.e. M.B.A. B.B.A. B.com Part-I, II LL.B. Part-I, II III, M.B.B.S. all Professionals, B.S. 4 Years Semesters, I, II, III, IV, V, VI, VII, VIII, B.S. 2Years Associate Degree Semester, I, II, III, IV (Containing 820 subjects). During the period 1st October, 2017 to September 2018, 24500 examiners and 6701 paper setters were appointed to fulfill above mentioned tasks.



▪ Anti Unfairmeans Section

During the period from 1st October 2017 to 30th September 2018, (1485) unfair means cases in B.A/B.Sc., M.A / M.Sc. and (380) cases in all other Professional examinations were registered.

• External & Computer Degree Section

(Progress report from 1st Oct 2017 to 30th Sept 2018)

| Sr. | Detail | No. of Degrees |
|---------------|---|----------------|
| 1. | B.A (Small Degree) | 535 |
| | B.A (Large Degree) | 9098 |
| 2. | B.Sc (Small Degree) | 181 |
| | B.Sc (Large Degree) | 7015 |
| 3. | M.A (Small Degree) | 156 |
| | M.A (Large Degree) | 3249 |
| 4. | M.Sc (Small Degree) | 16 |
| | M.Sc. (Large Degree) | 1093 |
| 5. | B.Com. (Small Degree) | 269 |
| | B.Com (Large Degree) | 12417 |
| 6. | LL.B (Small Degree) | 67 |
| | LL.B (Large Degree) | 1886 |
| 7. | Manual / Professional Degrees (Old Pattern) | 607 |
| | Manual / Professional Degrees (New Pattern) | 9225 |
| | DMC | 1905 |
| Total Degrees | | 47719 |

• Certificate Section (Section No 1)

(Progress report from 01-10-2017 to 30-09-2018)

| | No. of Verification | Departmental Verification | Punjab Bar Association | Original Degree without Fee | Duplicate Degree & D.M.C etc | Total |
|---------|---------------------|---------------------------|------------------------|-----------------------------|------------------------------|-------|
| By Hand | 1273 | 0 | 0 | 1855 | 1441 | 4569 |
| By Post | 253 | 4987 | 425 | 55 | 46 | 5766 |
| Total | 1526 | 4987 | 425 | 1910 | 1487 | 10335 |



- Certificate Section (Section No 2)
(Progress report from 01-10-2017 to 30-09-2018)

| | No. of Verification | Departmental Verification | Punjab Bar Association | Original Degree without Fee | Duplicate Degree & D.M.C etc | Total |
|---------|---------------------|---------------------------|------------------------|-----------------------------|------------------------------|-------|
| By Hand | 816 | 0 | 0 | 333 | 1135 | 2284 |
| By Post | 190 | 1955 | 1051 | 108 | 88 | 3392 |
| Total | 1006 | 1955 | 1051 | 441 | 1223 | 5676 |

- Certificate Section (Section No 3)
(Progress report from 01-10-2017 to 30-09-2018)

| | No. of Verification | Departmental Verification | Punjab Bar Association | Original Degree without Fee | Duplicate Degree & D.M.C etc | Total |
|---------|---------------------|---------------------------|------------------------|-----------------------------|------------------------------|-------|
| By Hand | 6870 | | | 13342 | 3004 | 23216 |
| By Post | 2493 | 39773 | 14880 | 4340 | 1090 | 62576 |
| Total | 9363 | 39773 | 14880 | 17682 | 4094 | 85792 |

B.A/B.Sc Hall / B.A/B.Sc (Computer)

This section dealt with the commencement & declaration of results of B.A./B.Sc. Supplementary Examination 2017, Annual Examination 2018.

| Session | Appeared Candidates in Examination | | |
|---------|------------------------------------|---------|---------|
| | Composite | Part-I | Part-II |
| S/2017 | 6,655 | 26,909 | 20,073 |
| A/2018 | 8,334 | 131,815 | 84,266 |

Total Candidates appeared for the Year (2017-18) is 278,052

The declarations of results were made within stipulated time successfully.

BA/BS.c Section (Computer Inquiry)

This section dealt with the complaints of the candidates relating B.A/B.Sc. examinations total 18,278 cases of B.A/B.Sc Composite, Special Category & B.A/B.Sc. Part-I & Part-II were received and processed.

**B.Com & LLB (Computer/Tabulation Section)**

The result of LL.B (03 Years Programme) Part-I, II, III & LL.B (05 Years) Part-I, Annual Examinations 2017 were held in July/August 2017 and declared in November/December 2017 and declared in November/December 2017. Result cards were dispatched accordingly. RL cases were resolved within short period of time.

The B.Com Part-I & Part-II, LL.B (03 Years Programme) Part-I, II, III & LL.B (05 Years) Part-I, 2nd Annual Examinations 2017 held in December/January/February 2018 and declared in April 2018. Result cards were dispatched accordingly. RL cases were resolved within short period of time.

The B.Com Part-I, II LL.B (03 Years) Part-I, II, III & LL.B (05 Years) Part-I, II Annual Examinations 2018 were held in July/August 2018 and declared in November/December 2018. Result cards were dispatched accordingly. RL cases were resolved within short period of time.

The number of candidates appearing in Annual & 2nd Annual Examinations for B.Com (Part-I, Part-II), LLB (03 Years Programme) Part-I, II, III and LL.B (05 Year Programme) Part-I, Part-II, are as follows:

01-10-2017 to 30-09-2018

- For LL.B (03 Year Programme)
LL.B Part-I: 10713
LL.B Part-I: 15799
LL.B Part-I: 13144
- For B.Com
B.Com. Part-I: 34988
B.Com Part-II: 34902
- For LL.B (05 Years Programme)
LL.B. Part-I: 3820
LL.B. Part-II:1696

M.A. / M.Sc. (Computer Section / Tabulation Section)

The M.A. /M.Sc. Part-I & Part-II Supplementary Examinations 2017 were held in February/March 2018 and results were declared in April/May 2018. Result Cards were dispatched accordingly. 9285 candidates appeared in Part-I and 10777 candidates appeared in Part-II Supplementary Examination 2017. R.L. Cases were also cleared within very short period of time.

The M.A. /M.Sc. Part-I & Part-II Annual Examinations 2018 were held in June/July 2018 and results were declared in Oct/Dec 2018. Result Cards were dispatched accordingly. 59013 candidates appeared in Part-I and 44944 candidates appeared in Part-II Annual Examination 2018. R.L. Cases were also cleared within very short period of time. 445 candidates appeared in thesis M.A/M.Sc. Part-II Annual Examinations 2018.



Form Section

This section deals with the work relating to the printing, issuing and processing of the Admission Forms of all the examinations, which are conducted by the University.

This Section performed following work pertaining to the Admission Forms during the period 2017-18.

1. 340,000 Admission Forms of various examinations were got prepared by the University Press.
2. Admission Forms were handed over to the college concerned, according to their demands.
3. Admission Forms of different Examinations were issued to the candidates by hand free of cost.
4. About 500,000 Admissions Forms of different examinations were received from the candidates individually, by hand, by post and from the colleges.
5. After checking, the Admissions Forms were entered in the relevant registers to maintain proper record and thereafter arranged category-wise.
6. After having affixed serial number on the Admission Forms of each examination, these were delivered to the Sections Concerned/Computer Section according to the Schedule.
7. Incomplete Admission Forms of the candidates of each examination which were received by post were returned to them.
8. The Admission Forms which were received after due date, being time barred, were rejected and returned to the candidates by registered post and proper record was maintained.

Litigation Cell

This section dealt with 152 Writ Petitions/Appeals/Civil Suits/Civil Appeals/Civil Org/I.C.A. & C.P.L.A., which were filed against the University of the Punjab and were defended in the Civil District Courts/High Courts/Supreme Courts of Pakistan during the period from 01-10-2017 to 30-09-2018. 102 Writ Petitions have been decided and the remaining is still pending in the above-mentioned Courts of Law. Similarly, 69 Complaints were received from the office of the Provincial Ombudsman out of which 40 cases have been decided and the decision of remaining complaints are still awaited from the Provincial Ombudsman.

Award Section

The Awards Section of the Examinations Department deals with the important and confidential work relating to the processing of Award Lists of all the Examinations, which are being conducted by the Punjab University.

In 2017-18, the sealed envelopes containing total No. 15242 of Award Lists were received from the Examiners of the various Examinations. These Awards Lists were checked / entered and delivered to the Section In-charge of the Computerized and manual Result Sections for compilation of Results.



Moreover, letter and reminders were sent to the Examiners concerned who did not send the Award Lists in time and discrepancies were also got removed from the Examiners concerned by getting themselves informed through letters/reminders and by telephonic conversation as well. The Result Positions of all the Examinations were prepared for submitting to the authorities as and when required. Thus, all Results were declared in time.

Inquiry Section M.A/M.Sc and Main Diary

This section dealt with the complaints of the candidates relating to different Examinations. 2903 Cases were received by hand. 5720 inquiries letters were registered in Dak Register.

Information Cell

1821 cases of M.A/M.Sc. were received and processed; only 3 cases are under process up till now. 1952 cases of B.Com/LLB. Were received and processed, 09 cases are under process. Thousands of duplicate roll number slip was also issued to the candidates through this section.

B.Ed /Professional (Computer Section)

This section dealt with the results of B.Ed and all the Professional Computerized examinations. During the stipulated period 92 different examinations were conducted for 11781 candidates.

Total 105 results were declared 8080 candidates were declared pass.

BS Computer Section

This section dealt with the results of semester system examinations. During the stipulated period 2017-2018, different examinations were conducted for 24092 candidates.

Total 32 results were declared, 27577 out of 28488 candidates were declared pass.

Professional Hall

It is submitted that this section deals with all the Professional Examinations running under semester and annual system. In 81 result notifications of Undergraduate programs, total 5272 candidates appeared, in 60 result notifications of Master degree programs, total 2532 candidates were appeared & in 58 result notifications of MS/M.Phil. programs total 1296 candidates were appeared. The results of 7 Postgraduate diplomas were declared in which 351 candidates were appeared during subject period.

DEPARTMENT OF PRESS & PUBLICATIONS

Telephone (s): 99232160, 35952970

E-Mail Address (s): puppress@gmail.com

○ Academic Achievements

Several workshops were arranged for the students of College of Arts & Design for their practical requirements and knowledge regarding Pre-press, Printing material & Graphic Arts.



○ **Research and Development**

The Department of Press & Publications is striving to provide quality printing and publication services to the University of the Punjab at subsidized rates. However, due to this cost reduction in Press services the workload of the Department of Press & Publications has increased considerably. All types of printing material concerning the Secrecy & Conduct Branch like Answer Books, Continuation Sheets, Practical Answer Books for (B.A./B.Sc., M.A./M.Sc.) exams, different Admission Forms, syllabus and material about professional examinations were printed here. The most important task of Press is the printing of examination materials for conducting the exams well in time and providing all the regarding materials for about 300,000 students. The Department of Press & Publications has also been assigned the printing of confidential document i.e. Degrees, Certificates, Result Cards, Result Sheets and Registers of various kinds.

○ **Publications/ Printings**

The Department of Press & Publications has under taken the jobs during the year October 2017 to September 2018 are as following.

| Sr. # | Departments | Description | Numbers |
|-------|--|--------------|-----------|
| 1 | Controller of Examinations, Jehlum Campus, Earth & Environmental Sciences, Department of Economics, Centre for undergraduate, College of Statics, Hailey College of Commerce, Department of Mathematics, Institute of Chemical, Jehlum Campus, Law College, Institute of Biochemistry & Biotechnology, Institute of Education Research, Micro biology & Molecular Genetics, Department of Political Science, Department of Social & Cultural Studies, Faculty of Engineering & Technology, Centre for South Asian Studies, Centre for High Energy Physics, Sheikh Zayed Islamic Centre, Department of Geology, Gujranwala Campus, Institute of Communication Studies, Hailey College of Banking & Finance, | Answer Books | 26,99,600 |



| | | | |
|---|--|--|----------|
| 2 | College of Earth & Environmental Sciences, Department of Solid State Physics, Department of Mathematics, Institute of Undergraduate Studies, Institute of Bio Chemistry & Bio Technology, Institute of Education Research, Faculty of Engineering & Technology, Centre for High Energy Physics, Institute of Business Administration, Law College | Extra Sheets | 1,59,000 |
| 3 | Vice Chancellor Office, Controller of Examinations, Deputy Registrar (acad), Institute of Chemical Engineering & Technology, Institute of Geology, Institute of Education Research, Institute Agricultural Sciences, Department of English, Department of Zoology, Institute of Languages, Skill Development Centre, Department of Information Management, College of Earth & Environmental Sciences | Degree / Diploma/ Certificates/ Transcripts | 89,060 |
| 4 | Controller of Examinations | Result Cards | 5,00,100 |
| 5 | Controller of Examinations, Treasurer Office, Directorate of Students Affairs, Gujranwala Campus, law College, Hailey College of Banking & finance, Hailey College of Commerce, Hall Council, Resident Office I, Institute of Education & Research, Department of Sports Sciences, Institute of Business Administration, Department of Political Sciences, Sialkot Women University, Engineering Branch, Govt, Technical Training Institute for Women. | Admission Forms/ All types of forms | 6,02,050 |
| 6 | Controller of Examinations, Registrar Office, Treasurer Office, Deputy Registrar (Acad), Chairman Admission Committee, Institute of Chemical Engineering & Technology | Title/ Agenda/ Gazette/ Annual Report, Progress Report/ Project Report | 11,155 |



| | | | |
|----|--|-------------------|--------|
| 7 | Gujranwala Campus, Hailey College of Banking & Finance, Department of Mathematics, Department of Punjabi, Department of Sports, School of Biological Sciences, Department of Arabic, Sialkot Women University, Institute of Business Administration, Govt, Technical Institute for Women. | Prospectuses | 38,900 |
| 8 | All Teaching & Non-teaching Staff of Punjab University | Visiting Cards | 24,100 |
| 9 | Faculty of Islamic Studies, Department of Persian, Faculty of Oriental Learning, Department of Information Management, Oriental College, Department of Geography, Hajveri Chair, Department of Iqbaliat, Department of Zoology, Centre for Clinical Psychology, Institute of Applied Psychology, Institute of Education Research, Department of Political Sciences, Department of Philosophy, Department of Mathematics, Institute of Engineering & Technology, Centre for South Asian Studies, Department of English, Department of Urdu, Department of Kashmiryat, Institute of Communication Studies, Institute of Administrative Sciences, Shiekh Zayed Islamic Centre, Urdu Development Committee, Department of History & pak Studies, Pakistan Research Society, Department of Economics, College of Statics. | Research Journals | 12,495 |
| 10 | Centre for Applied & Molecular Biology, Department of Mathematics, Punjab University College of Information Technology, Institute of Communication Studies, College of Pharmacy, Institute of Geography, Confucius Institute, Centre for Social & Cultural Studies, Department of Punjabi, C/o Superintendent Press, Urdu Development Committee, College of Statics, Oriental College, Department of Zoology, Department of Arabic, C/o Director Press, Research Society of Pakistan, Department of Persian. | Books | 14,133 |



| | | | |
|----|---|-------------------------------|----------|
| 11 | Vice Chancellor, Controller of Examinations, Registrar Office, Deputy Registrar – I, Resident Office – II, Gujranwala Campus, Oriental College, Doctoral Program, Coordination Committee, Centre for Clinical Psychology, Punjab Arts Council, College of Pharmacy, C/o Raja Munawar, P & D cell, Hailey College of Banking & Finance, Jehlum Campus, College of Art & Design, Officers Association, Institute of Administrative Science, Centre for Applied & Molecular Biology, Department of Sports, College of Statics, Faculty of Commerce | Envelopes | 2,96,760 |
| 12 | Vice Chancellor Office, Chairman Hall Council, Institute of Chemical Engineering & Technology, Department of English. | News Letters | 13,150 |
| 13 | Controller of Examinations, Directorate of Students Affairs, Registrar Office, Resident Office – I, Campus Corporation, Centre for High Energy Physics, Institute of Administrative Science, Punjab University Library, Govt. Technical Training College. | Posters, Stickers & Hall map | 2,12,800 |
| 14 | Controller of Examinations, Treasurer Office, Punjab University Health Centre, Registrar Office, Department of Physics, Punjab Art Council, Academic Staff Association, Artist Association of Punjab, C/o Syed Aftab, Punjab University Library, Career Counseling & Placement, Department of Information Management. | Brochures, Pamphlet & booklet | 18,200 |
| 15 | Vice Chancellor Office, Registrar Office | Fact Books | 2,250 |
| 16 | Vice Chancellor Office, Registrar Office | Speeches | 3,900 |
| 17 | Deputy Registration (General) | Registration Cards | 2,50,000 |
| 18 | University Health Centre, Vice Chancellor Office, Controller of Examinations, Treasurer Office, Faculty of Oriental Learning, Institute of Education Research, Department of Sports Sciences, Girls Hostel No. 6, Girls Hostel No. 10, Dr. Asmat Ullah. | Receipts, Slips, Ballot Paper | 55,350 |



| | | | |
|----|---|-----------------------------|----------|
| 19 | Registrar Office, Chief Security Office, | Tickets, Security stickers | 2,200 |
| 20 | Treasurer Office, Controller of Examinations, Chief Engineer Office, Transport Wing, Institute of Chemistry, Girls Hostel No. 0, Boys Hostel No.7. | Registers for various kinds | 5,307 |
| 21 | Vice Chancellor Office, University Health Centre, Controller of Examinations, Deputy Registrar (General), Registrar Office, Chief Security Office, Faculty of Health Sciences, Gujranwala Campus, Space Sciences, Faculty of Engineering & Technology, Doctor\ Program Coordination, Chief Librarian, Institute of Social & Cultural Studies, Hostel Islamic Centre, Centre for High Energy Physics, Department of Physics, Hailey College of Banking & Finance, Institute of Chemical & Technology, Department of Sorts, Department of Arabic, Department of Sports for Women, Department of Physics, College of Pharmacy, Department of Zoology, Boys Hostel No. 19, Hostel No. 10, Department of Mosques, College of Earth & Environmental Sciences, Institute of Business Administration, Academic Staff Association, Department of Management Sciences, Department of Political Science, Department of Statics, Boys Hostel No. 4, Faculty of Oriental Learning, Department of Persian, Department of French, Centre for Applied & Molecular Biology, Ex-CMO, Institute of Geology, C/o Dr. Mahboob Hussain, Department External Linkages, Directorate of Students Affairs, Centre for High Energy Physics, Department of Geography, ORIC, Faculty of Commerce, Department of Economics. | Letter Pads | 1,76,225 |



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| 22 | Vice Chancellor Office, Registrar Office, Treasurer Office, University Health Centre, Quality Enhancement Cell, Doctoral Program Committee, ORIC, Gujranwala Campus, Department of Botany, Institute of Bio Chemistry & Bio Technology, Department of English, Directorate of Students Affairs, Faculty of Oriental Learning, Public Relation Office, Confucius Institute, Faculty of Commerce, Department of Mosques. | Files Covers | 43,470 |
| 23 | Vice Chancellor Office, Controller of Examinations, Registrar Office. | Convocation Cards, Season cards | 2,700 |
| 24 | Controller of Examinations | Certificates | 5,150 |
| 25 | Department of Sports & Physical Education, Institute of Administration Science, Institute of Chemical Engineering & Technology, College of Statics, Centre for Applied & Molecular Biology, University Executive Club, Department of Arabic, Masjid Ayesha Saddiq, Department of Zoology, Department of Micro biology & Molecular Genetics, Department of English, Directorate of Students Affairs, Punjab University Library, Institute of Communication Studies, C/o Dr. Aurang Zeb, Punjab Arts Council, Academic Staff Association, Govt. Technical Training College, Institute of Education Research, Department of Information Management. | Students Card, Class Cards, Library Cards, Book Pockets Bill books & Teacher Cards. | 1,03,166 |
| 26 | Vice Chancellor Office, | Executive Diaries, Small Diary, Day Planner, Bags | 26,000 |
| 27 | Vice Chancellor Office, Controller of Examinations, Registrar Office, External Linkages, Institute of Education Research, Centre for High Energy Physics, Department of Sports for Women, Punjab Arts Council, College of Pharmacy, Institute of Agricultural Sciences, C/o Raja Munawar, P & D Cell, C/o Officer Association. | Invitation Cards | 6,010 |



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|----|--|--|--------|
| 28 | Planning & Development Cell | P.U Telephone Directory | 1,400 |
| 29 | Vice Chancellor Office | Wall calendar, Table calendar, Ramzan Calendar | 14,000 |
| 30 | Treasurer Office | Budget copies | 200 |
| 31 | Department of Mathematics, Oriental College, Department of Urdu Development Committee, Department of English, | Magazine | 2,600 |
| 32 | Centre for High Energy Physics, Institute of Chemical Engineering & Technology, Institute of Applied Psychology, Centre for Clinical Psychology. | Abstracts | 950 |

Our Mission is to disseminate knowledge and creative work in all of its forms through scientific and intellectual publishing at affordable price.

DEPARTMENT OF PUBLIC RELATIONS

The details of main activities of the PU PR Department during the year 2017-18, are given, as under:

Press Conferences

Successful press meetings on every various issues were arranged to make the PU a resounding success.

Columns / Articles / Features

For presenting positive image of Punjab University in print media, many columns, articles and features were published. The department also hosted several luncheons and dinners.

Press Releases

The day-to-day press coverage of the university events were published daily in national Press. PU gained maximum space in national Press. Over 623 press releases with several pictures were published in newspapers this year. The department also highlighted the research work and achievements of university scholars. The department also took up the task of coverage of our co-curricular and sports events.

PU Advertisements

PU's Public Relations Department is one of the only government departments who have maintained good relationship with Director General Public Relations' office. The publication process of our tender, vacancy and special advertisements had been smooth.



Contradictions/Clarifications

Sometimes newspapers/TV channels publish/broadcast incorrect news item based on misinformation. In such cases, the PR department managed broadcast of true picture of the story for keeping the record straight.

Future Development Plans

Establishment of Video News Service, video monitoring and video editing unit.

DIRECTORATE OF EXTERNAL LINKAGES

The Directorate of External Linkages carries out the University's international proceedings, and programs, and supports global initiatives. Reporting directly to the Vice Chancellor, the Director of External Linkages manages the establishment, progress, expansion and completion of an effective strategy for the achievement of the University's international mission. This strategy includes but is not limited to:

Since 1998-2018, out of 148 MoUs; a number of 30 MoUs have been signed between PU and Chinese institutions. Furthermore, 23 MoUs with Turkey, 9 with the UK, 8 with Malaysia & Japan each, 6 with Germany, 5 with the USA and with some other academic institutions in Asia/Europe in the following areas of mutual interest:

- Student Exchange (one or two semesters)
- Faculty Exchange (for research and teaching)
- Staff Exchange
- Research Exchange
- Exchange of Research Material/Books
- Joint Seminar/Awareness Sessions
- Joint Research Projects/Conferences
- Master/Ph.D. Joint Degree/Split degree programs

Mous National/International

MOUs Signed between PU & International Institutions

| Sr # | Name of University/ Department | Name of Foreign Institution/Organization Linked with University | Signing Authorities | Date of Signing |
|------|---|---|--|-----------------|
| 1 | Center for Integrated Mountain Research (CIMR) Research, PU | Konkuk University, Climate Research Institute (C.R.I.) Seoul, South Korea | <u>University of the Punjab</u> Prof. Dr. Niaz Ahmad Akhtar, VC Dr. Safdar Ali Shirazi, Director CIMR <u>Konkuk University</u> Prof. Dr. Sanggi Min, President Prof. Dr. Seungho Lee, D.G. C.R.I. | Aug 01, 2018 |



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|---|-----------------------------------|--|---|-----------------|
| 2 | University of the Punjab, Lahore. | International Centre for Integrated Mountain Development (ICIMOD), Lalitpur, NEPAL | <u>University of the Punjab</u> Prof. Dr. Niaz Ahmad Akhtar, VC <u>ICIMOD</u> David Molden, PhD, Director General | Oct. 24, 2018 |
| 3 | University of the Punjab, Lahore. | Mevlana Exchange Programme Protocol, Ege University, Turkey | <u>University of the Punjab</u> Prof. Dr. Niaz Ahmad Akhtar, VC <u>Ege University</u> Prof. Dr. Mehmet Ersan, Rector | July 16, 2018 |
| 4 | Faculty of Arts & Humanities | Jiangxi University of Science and Technology, China | <u>Prof. Dr. Muhammad Iqbal Chawla</u> Dean, Faculty of Arts & Humanities <u>JUST</u> Prof. Dr. Wen He Rui Vice President | 06 June, 2018 |
| 5 | University of the Punjab Lahore | Jiangxi University of Science and Technology, China | <u>University of the Punjab</u> Prof. Dr. Nasira Jabeen, VC <u>JUST</u> Prof. Dr. yang Bin, President | 05 June, 2018 |
| 6 | University of the Punjab Lahore | Northeastern University at Qinhuangdao (NEUQ), China | <u>University of the Punjab</u> Prof. Dr. Nasira Jabeen, VC <u>Northeastern University</u> Prof. Wang Leizhen, VC | 16 May, 2018 |
| 7 | University of the Punjab Lahore | Sanya Science & Technology Academy for Crop winter Multiplication Hainan, China | <u>University of the Punjab</u> Prof. Dr. Nasira Jabeen, VC <u>Sanya Science & Technology</u> Chen Guanming, Director/Professor | 14 May, 2018 |
| 8 | University of the Punjab Lahore | Northeastern University at Qinhuangdao (NEUQ), China | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>Northeastern University at Qinhuangdao</u> Wang Leizhen, VC | 19 March., 2018 |



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|----|---------------------------------|---|--|-----------------|
| 9 | University of the Punjab Lahore | The Education University of Hong Kong, China | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>The Education University of Hong Kong, China</u> Vice-President | 19 March., 2018 |
| 10 | University of the Punjab Lahore | University of Science & Technology, China | <u>University of the Punjab</u> Prof. Dr. Zaffar Mueen Nasar, VC <u>University of Science & Technology</u> President | 26 Dec., 2017 |
| 11 | University of the Punjab Lahore | Jiangxi University of Science and Technology, China | <u>University of the Punjab (Party A)</u> Prof. Dr. Zaffar Mueen Nasar, VC <u>Jiangxi University of Science & Technology (Party B)</u> Prof. Dr. Wen Herui, Vice-President (Party C) Lu Dongsheng, CEO Conforming: Qin Guobin, Board Chairman | 22 Nov., 2017 |

Mous Signed Between PU & National Institutions

| Sr # | Name of University/ Department | Name of Foreign Institution/Organization Linked with University | Signing Authorities | Date of Signing |
|------|------------------------------------|---|---|-----------------|
| 1 | Centre for Clinical Psychology, PU | Pakistan Institute of Living and Learning (PILL) | <u>University of the Punjab</u> Prof. Dr. Niaz Ahmad Akhtar (S.I.), VC Dr. Saima Dawood, Dir. CCP <u>PILL</u> Dr. Nasim Chaudhry, CEO Afshan Qureshi, Managing Trustee | Aug. 17, 2018 |



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|---|--|--|--|---------------|
| 2 | University of the Punjab, Lahore. | Punjab Higher Education Commission (Community College Program) | <u>University of the Punjab</u> Prof. Dr. Niaz Ahmad Akhtar (S.I.), VC <u>Punjab Higher Education Commission</u> Prof. Dr. Muhammaad Nazimuddin (S.I.) | Aug. 16, 2018 |
| 3 | University of the Punjab, Lahore. | MILLS™ Skills | <u>University of the Punjab</u> Prof. Dr. Nasira jabeen, VC Lt. Gen. Arshad mahmood, HI(M), SJ (Retd.) <u>Managing Director</u> | May. 25, 2018 |
| 4 | University of the Punjab, Lahore. | AM99 Group of companies | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC Brigadier Asif Mahmood (Retd) Founder | Mar. 27, 2018 |
| 5 | University of the Punjab, Lahore. | TABA Foundation | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC Brigadier Asif Mahmood (Retd) Founder | Mar. 27, 2018 |
| 6 | University of the Punjab, Lahore. | Institute of Orthopedics & Rehabilitation | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC Institute of Orthopedics & Rehabilitation Maj. Gen. (R) A.M. Tariq Managing Director | Mar. 22, 2018 |
| 7 | Institute of Business Administration, PU | Meezan Bank Limited | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>Meezan Bank Limited</u> Mr. Irfan Siddiqui, President & CEO | Feb. 10, 2018 |



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|----|---|---|--|---------------|
| 8 | Hailey College of Commerce, PU | Women Chamber of Commerce & Industry (Lahore Div.) | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>Women Chamber of Commerce & Industry</u> Dr. Falahat Imran, President | Feb. 08, 2018 |
| 9 | Centre for Applied Molecular Biology (CAMB) | King Edward Medical University, Lahore | <u>University of the Punjab</u> Prof. Dr. Zafar Moueen Nasar, VC Dr. Nadeem Sh. Dir. CAMB Dr. M. Farooq Sabar, Head DNA Fac., CAMB <u>King Edward Medical University</u> Prof. Dr. Kazi Muhammad Saeed, VC Prof. Dr. Irshad Hussain, Registrar Dr. Nukshab Ch., Chairman, Department of Biochemistry, KEMU. | Feb. 1, 2018 |
| 10 | University of the Punjab, Lahore. | Fatima Jinnah Medical university Lahore | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>Fatima Jinnah Medical University</u> Prof. Khalid Masood Gondal (T.I), VC | Jan.19, 2018 |
| 11 | University of the Punjab, Lahore. | Provincial Disaster management Authority, Lahore | <u>University of the Punjab</u> Prof. Dr. Muhammad Zakria Zakar, VC <u>Director</u> | Jan.15, 2018 |
| 12 | University of the Punjab, Lahore. | Securities and Exchange Commission of Pakistan (SECP) | <u>University of the Punjab</u> Prof. Dr. Zafar Moueen Nasar, VC <u>Securities and Exchange Commission of Pak.</u> Mr. Akif Saeed, Commissioner (IE & IRD) | Dec. 11, 2017 |



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| 13 | Centre of Excellence in Molecular Biology (CEMB) | Pioneer Pakistan Seed Limited, Lahore | <u>University of the Punjab</u> Prof. Dr. Zafar Moueen Nasar, VC <u>Pioneer Pakistan Seed Limited.</u> Mr. Nadeem Zafar Mirza, Country Manager | Nov. 30, 2017 |
| 14 | Centre of Excellence in Molecular Biology (CEMB) | Tara Crop Sciences, PCT, Ltd., Lahore | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Tara Crop Sciences, PCT, Ltd.,</u> Mr. Ch. Maqsood Ahmed, Group Executive Director | Nov. 30, 2017 |
| 15 | Centre of Excellence in Molecular Biology (CEMB) | Sanifa Agri Services, Lahore | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Sanifa Agri Services</u> Mr. Sheikh Moazzam Ahmed, CEO | Nov. 30, 2017 |
| 16 | Centre of Excellence in Molecular Biology (CEMB) | Bahar Seed Corporation, Sadiqabad | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Bahar Seed Corporation</u> Mr. Ch. Asghar Ali, Chairman | Oct. 17, 2017 |
| 17 | Centre of Excellence in Molecular Biology (CEMB) | Neelum Seed Corporation, Multan | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Neelum Seed Corporation</u> Mr. Syed Hassan Raza, Director | Oct. 17, 2017 |
| 18 | Centre of Excellence in Molecular Biology (CEMB) | Weal-AG Corporation, Multan | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Weal-AG Corporation</u> Mr. Ch. Iftikhar Nazeer, Chairman | Oct. 17, 2017 |



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|----|--|--------------------------------------|---|------------------|
| 19 | Centre of Excellence in Molecular Biology (CEMB) | Suncrop Group, Multan | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Suncrop Group</u> Mr. Arif Mehmood Sumra Marketing Manager | Oct. 17, 2017 |
| 20 | Centre of Excellence in Molecular Biology (CEMB) | Jullundur Seed Pvt. Ltd., Lahore | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Jullundur Seed Pvt. Ltd.,</u> Mr. Naveed Tarqi, Senior Director | Oct. 17, 2017 |
| 21 | Centre of Excellence in Molecular Biology (CEMB) | Auriga Seed Corporation, Lahore. | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>Auriga Seed Corporation</u> Mr. Jamshed Iqbal Cheema, Chairman | Oct. 17, 2017 |
| 22 | Centre of Excellence in Molecular Biology (CEMB) | ICI, Limited, Lahore. | <u>CEMB, PU</u> Prof. Dr. Tayyab Hussain, Director <u>ICI, Limited.</u> Mr. Arshaduddin Ahmed, G.M. | Oct. 17, 2017 |
| 23 | University of the Punjab, Lahore. | Highnoon Laboratories (Pvt.) Ltd. | <u>University of the Punjab</u> Prof. Dr. Zafar Moueen Nasar, VC <u>Highnoon Laboratories (Pvt.) Ltd.</u> Mr. Javed Hussain, Chief Financial Officer | Oct. 05, 2017 |

Facilitation in Visiting Foreign Faculty Program (VFFP)

As per the initiative of the worthy Vice-Chancellor, the Directorate of External Linkages has been dealing with the affairs of VFFP as decided in the meeting of the Deans Committee regarding Visiting Foreign Faculty Program (VFFP) held on Sept. 14, 2018 at the Vice-Chancellor's office with the following agreed TORs:

- The Foreign Faculty includes those academics who are employed as faculty member in top 500 foreign universities as professor, associate professor, assistant professor and lecturer/senior lecturer.



- They will be paid economy class airfare, accommodation on campus guest house (1 to 2 weeks). They will teach a course within that time (taking full hours of condensed teaching system)
- The professors and associate professors will be paid Rs 2000/hour while assistant professor and lecturers will be paid Rs 1500/per hour.
- Deptts/institutes/colleges will contact the foreign faculty for extending an offer while the office of the Vice-Chancellor and External Linkages will facilitate its execution.
- The academic units which have self-supporting programs will invite at least one foreign faculty member during one fiscal year bearing the cost from their own funds, with the approval of the VC.
- The university guest house must be upgraded to meet the needs of the foreign faculty.

Facilitation Faculty/Students for Visa

The Directorate also assists with visas for students for scholarships/exchange programs during their studies as well as for those faculty members traveling abroad to pursue a PhD degree or for a seminar/lecture/conference or presenting a research paper.

Lecture/Seminars/Awareness Programs

- Helped organizing Amal Academy 'Fellowship Sessions and Career Prep Fellowship programs' at IBA, IM, IER, IAS, HCC and at Al-Razi Hall from Oct 2017 – Jan. 2018 (on 5 intervals).
- Organized Special Lecture on 'Drug Abuse Prevention' by Brig. Khalid Mehmood Goraya, Force Commander Anti Narcotics Force Punjab on April 4, 2018, at Al-Razi Hall, Centre for Undergraduate Studies, for the students of Punjab University.
- Organized 'Shariah Awareness Session on Introduction of Islamic Banking & Meezan Bank Products' by Mufti Muaz Ashraf for PU Faculty members on April 18, 2018, at Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab.
- Organized 'Special Lecture on Publish – Perish' to the Faculty members and students (pursuing M.Phil / Ph.D) of all business schools by Prof. Dr. Rahat Munir, Head of Department of Accounting and Corporate Governance, Macquarie University, Australia on May 2, 2018 at Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab.
- Seminar on 'Mitti Connection-Giving Back to your Homeland' by Ajmal Hashmi (associated with Carleton University Ottawa and Social Innovation Department, St. Paul University, Canada) on September 5, 2018 at Department of Economics, PU.
- Organized 'Lecture by Ms. Anne Marchal (Deputy Head of Mission/Minister at European Union Delegation to Pakistan at Al-Razi Hall on September 28, 2018 at Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab.

The Directorate also assists with visas for students for scholarships during their studies foreign as well as for those faculty members travelling abroad to pursue a PhD degree or for a conference.



LEGAL CELL

Please find enclosed the Annual Report regarding the Punjab University cases (other than Examination) which are under trial before various courts of Law.

| COURT CASES 2018 | |
|-----------------------------------|-----|
| <i>Lower Court Cases</i> | |
| Filed | 22 |
| Decided | 10 |
| Pending | 12 |
| <i>High Court Cases</i> | |
| Filed | 142 |
| Decided | 102 |
| Pending | 40 |
| <i>Supreme Court (CPLA) Cases</i> | |
| Filed | 7 |
| Decided | -0- |
| Pending | 07 |

OFFICE OF THE CHIEF ENGINEER

The following Development projects in Punjab University By Annual 2017-18 as follows:-

| Sr. | Name of project | Current status |
|-----|---|----------------|
| 1 | Construction of Library & Faculty Rooms at 1st floor of old building of Centre for Clinical Psychology at QAC | Complete |
| 2 | Construction of class rooms and seminar room at 1st floor of Institute of Applied Psychology at QAC. | Complete |
| 3 | Construction of F-type Apartments for Non-Teaching Employees Block-A at Shah-di-khui at QAC. | Complete |
| 4 | Construction of two bed Apartments Block-D for Faculty at QAC. | Complete |
| 5 | Construction of one lecture Hall and four faculty offices in ISCS at QAC | Complete |
| 6 | Porcelain tile at GIS department at PUCIT at QAC | Complete |
| 7 | Construction of Canteen at College of Statistical & Actuarial Sciences at QAC | Complete |
| 8 | Construction of Study Room at Ground Floor Girls Hostel # 09 at QAC | Complete |
| 9 | Construction of approach road with Car Parking for newly constructed building of IER at QAC | Complete |
| 10 | P/L porcelain tiles in Computer Lab (A,B&C) and P/L of tuff tiles at PUCIT AIC | Complete |
| 11 | P/L Marble in Computer Lab Verandah at PUCIT at AIC | Complete |
| 12 | Construction of new Class Room at Department of Gender Studies at QAC | Complete |
| 13 | Construction of tennis court at Sports Sciences & Physical Education Deptt QAC | Complete |
| 14 | Boring/Installation of one & half cusec tube well for hostel area at QAC | In Progress |



| | | |
|----|--|-------------|
| 15 | Construction of New Computer Lab and Class Rooms at First Floor of IBA at QAC | Complete |
| 16 | Renovation of Academic Block at IBA at QAC | Complete |
| 17 | Filling & Provision of soling of service road adjacent to Clinical Psychology wall QAC | Complete |
| 18 | Construction of Committee Room, Class Room and Office at ISCS at QAC | Complete |
| 19 | The remaining work of kitchen and coffee shop at University Club at QAC | In Progress |
| 20 | Conversion of Departmental hall to seminar hall and class room in Zoology at QAC | In Progress |
| 21 | Construction of new class rooms at First floor of Department of Space Science at QAC | In Progress |
| 22 | Construction of RCC Boundary wall of Village Shah di Khui near Islamic Centre at QAC | Complete |
| 23 | Construction of Car Parking in front of Admin Block at QAC | Complete |
| 24 | Provision of tuff tile passage for Sports Gymnasium at QAC | Complete |
| 25 | Construction of Jogging track around the Play and Cricket Ground at QAC | Complete |

PUNJAB UNIVERSITY LIBRARY

Telephone(s): 092-42-99231126, 99230863

Fax Number(s): 092-42-99230892

E-Mail Address(s): chief librarian@pu.edu.pk

○ **Research and Development**

Punjab University Library is the largest library of Pakistan having rich rare material and special collections. A large number of services based on ICT's are being provided to library users. During the above cited period, 8702 new titles were added / accessioned (English, Urdu, Persian, Arabic, manuscripts & theses), 6227 new members were registered, 3,24,703 students visited the library and almost 21757 books (Hard form) as well as thousands of PDF books through USB & E-mail provided as per convenience and requirements of the users. Serial Section subscribed 64 Foreign Journals during the last year, while a total of 18 daily newspapers are also being subscribed.

○ **Newly launched (continued)**

The library has initiated a new service for the promotion of reading culture in the university. From January, 2018, the PU Library Book club has been set up in which introductory talks on two new books are being held each month. The program is running successfully and being appreciated by a large number of students and faculty members.

○ **Projects: (Continued & completed)**

- Out of more than 700 Manuscripts, 45000 pages have been scanned.
- More than 20,000 new PDF books have been added. Now all PDF books are more than 50,000 searchable from Library's OPACS.
- 1500 similarity of theses (Ph.D. / M.Phil. theses) have been checked during the period.
- Marketing / Publicity of events visits of delegations through internet sources.



○ **Information Literacy Program**

The library is regularly organizing information literacy programs to create information and research skills among the scholars. The program covers the following topics:

- Basic information searching skills
- Designing information search strategy
- Trainings on citation software (Zotero)
- Trainings on Specific Databases like Scopus, IEEE
- Trainings on plagiarism avoidance

○ **Seminars / Conferences/workshops/Symposia/Exhibition, etc.**

- Mr. Mehtab Yahya, Librarian, Mr. Muhammad Farooq, Librarian & Mst. Sakina Bashir Librarian attended one day workshop entitled, “Application of linked data technologies in libraries and development institutional repository” organized by Department of Information Management on 7th February, 2018 at same venue.
- Mr. Azhar Rasheed, Deputy Chief Librarian, Mr. Sharafat Ali Khan, Senior Librarian and Mr. Muhammad Farooq, Librarian attended Two Days workshop on “LIBRARIANSHIP AND CATALOGING” organized by American Institute of Pakistan Studies (AIPS) in collaboration with Lahore University of the Management Sciences (LUMS) and Punjab Higher Education Commission (PHEC) from February 27-28, 2018.
- Punjab University Library organized a free seminar entitled “Environment Friendly Behavior” on March 1, 2018 at PU Library.
- Proposed conduct of Workshop for the Librarians of University of the Punjab under PHEC project, “Capacity Building of University Librarians under topic “Communication and Leadership Skills” which conducted in Lahore from 25-27 April, 2018.
- Mr. Hafiz Habib ur Rehman, Deputy Chief Librarian, Mr. Kashif Khurshid, Deputy Chief Librarian & Mr. Mehtab Yahya, Librarian attended Two days Training Workshop on “Library Automation and System Management” on April 26-27, 2018 organized by Punjab Higher Education commission at PU Library Internet Lab.
- Dr. Faiqa Mansoor, Deputy Chief Librarian presented a paper at 4th International conference Plagiarism across Europe and beyond held at Ephesus, Turkey from 9 to 11 May, 2018.
- Mr. Saif Ur Rehman Attique, Deputy Chief Librarian, attended four days National Training Workshop entitled “Capacity Building of Librarians using Research Tools” at Baragali Summer Campus, University of Peshawar on 19 to 22 July 2018.
- Dr. Azhar Rasheed, Deputy Chief Librarian, Dr. Faiqa Mansoor, Deputy Chief Librarian, Mr. Aslam Hayat, Senior Librarian, Mr. Hamid Ali, Senior Librarian, Mst. Iram Zakir Librarian and Muhammad Farooq, Librarian attended three Days workshop on “Understanding scripts of languages for the librarians held at Punjab University Library from 7.8.2018 to 9.8.2018.



- Mr. Rauf Ishaq, Librarian & Mr. Mehtab Yahya, Librarian attended Two Days workshop entitled, "Koha Open Source Software" from August, 30th to 31st, 2018 at the Department of Information Management, University of the Punjab, Lahore.

Serial Section Continued & completed

- Subscribe 64 International scholarly print journals on different subject
- Data Entry of journals records in MLIMS (version 2.0)
- Maintaining the bound volume of major 16 Newspapers
- Repairing of torn and old books in binding section
- Lamination and binding of different collections

Catalogue Section

- Data entry of new books =3242 (English)
- Spine labeling =3642

Oriental Section

- Technical Processing (Data Entry)
 - a. Urdu / Punjabi Books 2623
 - b. Arabic / Persian Books 159
 - c. Thesis 166
 - d. Aftab Asghar (personal collection) 1200-2400
 - e. Muhammad Haroon Usmani (personal collection) 1-1000
 - f. Dehlavi Collection (Missing Number Entry) 6150 to 6325
 - g. Persian Special Collection 400
 - h. Catalogue Cards 7500
 - i. Catalogue Cards (old card re-type) 8000
 - j. Labeling / Barcoding 8200
 - k. Binding Books / Periodicals 4500
- Miscellaneous Services to the Readers
 - a. Shelving of Books, Periodicals 58000
 - b. Shelving of Collection Books+ Periodicals 10000
 - c. Reference Service of Thesis 10000
 - d. Counter Service (Students & Researchers) 220000
 - e. Reference service of Manuscripts. Faculty members, Local & International Scholars
- Personal Collection Accessioned = Dr. Muhammad Haroon Usmani
- Data Entry in MS. Excel Work
 - a. Hakeem Muhammad Musa for vol. 6th. (continued)
 - b. Muhammad Alam Mukhtar-e-Haq 1-1000 (continued)
- New Personal Collections Received

Muhammad Alam Mukhtar-e-Haq, Muhammad Haroon Usmani & Akram Ikram collections are new additions to the personal collections of oriental section.



Reference Section

| | |
|---|--------|
| ▪ Information Literacy related Trainings | |
| ▪ (HEC Data Bases & adv. Searching Techniques) | |
| • Individual level | 500 |
| • Community level | 1000+ |
| ▪ Local national level visit | 50+ |
| ▪ Handling orientation session (new classes) | 70+ |
| ▪ Digital Reference Service (SDI) | 735 |
| ▪ Guideline services (plagiarism, E-Article, OPAC etc.) | 5000+ |
| ▪ Binding of reference books | 300 |
| ▪ Technical services(Data entry, Book Cards, Barcode label) | 400 |
| ▪ Photocopy services | 7550 |
| ▪ Digital Collection Acquired (free of cost) | 10000+ |
| ▪ Downloaded latest Books | 800+ |

U.N.O. Section

| | |
|---|-----|
| ▪ New Publications | |
| • Government Publications: | =82 |
| • UNO Publications: | =45 |
| • Council of Islamic Ideology Publications: 28 Eng. + 45 Urdu | =68 |
| • Chinese Collection: | =02 |

Strengthening Technological Infrastructure

Internet Lab.

- Management of network infrastructure for the new library floor
 - New Surveillance System (8 – Security Cameras)
 - Two (2) DVR's for camera recording
 - Network Cabling throughout the 2nd Floor
 - Installation of new Catalyst Cisco Switches
 - Configuration of four (4) Cisco 300 series Switches
 - Management of new sound system in the auditorium.
 - Management and configuration of the 4 Wi-Fi devices
 - Management of UPS to back up the all installed devices
- Design and Develop the new Punjab University Library Website (<http://pulibrary.edu.pk/new>).
- Shifting of the IT-LAB into the different Subnet with different IP-Scheme (RRAS Server).
- Up gradation of the Ground Floor Surveillance System with the new 11 security cameras and with latest DVR
- Installation of the new Projector / Projector Screen / and LED's for presentation



REGISTRATION BRANCH

The Registration Branch is an important department of the Punjab University. The Registration Branch is a backbone for generating revenue through its vital role.

Online Registration

The external students and affiliated colleges submit forms/Registration returns for registration/enrollment of the admitted students. These were submitted through conventional hand written forms. The branch has taken initiative to use the modern technology to facilitate all the stake holders.

Online registration has been started successfully w.e.f the session 2017-2018 which will help to minimize the chances of mistakes during composing, reduce the work load and for speedy processing.

The branch is carrying out a lot of jobs successfully. Out of which the majors are given below:

- To issue admission schedules for admission in all disciplines to affiliated colleges.
- To receive the Registration returns from affiliated colleges and to issue the Registration cards.
- To enroll the students of M.A/M.Sc, LL.B and other disciplines.
- To register the students giving Overseas examination.
- To issue No Objection Certificates.
- To issue Migration Certificates from college to college.
- To process the cases of age relaxation.
- To process the cases of Change in Name.
- Correction in Particulars of the students.
- Issuance of Duplicate Cards.
- To process the cases of Session Gap.
- To hold the University Convocation.
- To hold the Elections of various bodies of Punjab University.
- To attest the Educational documents for study Abroad.
- To process the cases of foreign verification.
- Registration of Private (External) Candidates for B.A/B.Sc, M.A/M.Sc, and B.Com Examinations.
- Registration of Regular Students.
- To clear the queries raised by the Examinations department.
- Coordination with other Sections, such as Affiliation, Examinations and Accounts Branch etc.
- To perform the duties assigned by the University authorities from time to time.

Issuance of Admission Schedules

The Registration Branch is liable to issue the admission schedule to all the affiliated colleges for admission in various disciplines after declaration of results of the terminal/required exams. The admission schedule issued to 717 affiliated colleges for admission in B.A/B.Sc., B.Com., B.C.S., M.A/M.Sc., LL.B., M.Ed., MIT, Pharm D, M.Com, MLT, BSc Nursing and different diplomas etc.

**Registration Returns**

The Registration Branch received the Registration returns from various affiliated colleges. These returns were processed/evaluated and examined by the concerned staff and was referred to the Computer Section to issue Registration Cards. During the period mentioned above more than 2275 registration returns were received.

Enrollment of the Students

This branch enrolled the already registered students of LL.B., M.A./M.Sc., M.I.T. and other disciplines by issuing the enrollment lists to affiliated colleges. It is a best tool to check the intake. During this session more than forty five hundred students were enrolled in 100 Post Graduate 42 Law, 26 IT and 2 Science Education Colleges.

Issuance of No Objection Certificates

Besides the Registration, Enrollment of the students, the major job of this branch is to issue No Objection Certificates to those students who were registered with University of the Punjab and desires to continue their studies in any other university. Registration Branch issued 15883 migration certificates to the students to proceed for Education in other Universities.

Processing of College to College Migration

Registration Branch issued 300 College to College migration certificates to the students from one affiliated college to the other.

Processing of age relaxation cases.

The Registration Branch is extending its useful services to the students who became over age for their admissions. The age relaxation certificates/letters issued to all such students during the period from 01-10-2017 to 30-09-2018 almost 644 age relaxation letters/certificates were issued.

Change in Name

This branch also deals with the change of Name, Father's Name cases. The candidates get decree from court of law for applying to change their name. After processing the cases more than 462 letters of change in name were issued.

Correction in Particulars

If there is mistake in the name, father's name N.I.C No, date of birth, address etc on the Registration card, correction is processed on the request of student. About 3500 cases of correction were processed during this period.

Duplicate Cards

The Registration Branch issues Duplicate Registration Cards to the students who have lost the original Registration Card. During this period about 3000 Duplicate Registration Cards were issued.

**Session Gap**

Session gap is allowed to candidates seeking Regular Admission as prescribed in the rules. This branch issues the age relaxation letter to such students who are eligible under the rules. During this period more than 1070 letters were issued.

To attest the educational documents

The most important job being performed by the Branch is to attest educational documents. The candidates, who apply for admission to study abroad, are required to get their educational documents attested/verified by the Registrar. This branch dealt more than 969 cases during this period.

Cases of foreign verification

There is a Credential Verification Cell in the branch. Cases are received from International Universities and Educational Institutions on daily basis. This branch is processing such cases carefully. Registration Branch processed 519 cases of verification during this period.

Coordination with other sections

All the branches of the university work in collaboration with each other. This branch coordinates with Accounts, Examinations and Affiliation Branches for various issues.

Registration of Expatriate Pakistani Citizens

Punjab University Registration Branch also registered the overseas students taking examinations in various countries like K.S.A., Dubai etc. During this period this branch registered more than 308 overseas students for this purpose.

To perform the duties assigned by the Punjab University Authorities

This branch remains ready to perform all the general duties assigned by the University Authorities. The Registration Branch is liable to process the Registration / enrollment of the students in all disciplines. The Branch has Registered and issued computerized Registration Cards to the students who got admission in the University Teaching Department, Constituent and affiliated colleges in various disciplines during this year. This Branch Registered the private candidates who appeared in B.A./B.Sc., B.Com., M.A/M.Sc. and B.Ed. examinations.

693 affiliated colleges were dealt by the Registration Branch by issuing the Registration card and Enrollment for different disciplines.

Registration of Regular Students for the Session (2017-2018).

- B.A/B.Sc: Registration Branch registered 48545 candidates for B.A/B.Sc Examination in 2019.
- B.Com: Registration Branch registered 11077 candidates for B.Com Examination in 2019.
- M.A/M.Sc: Registration Branch registered 637 candidates for M.A/M.Sc Examination 2019.
- B.S Hons: Registration Branch registered 6123 candidates for B.S Hons.
- Law: Registration Branch registered 1608 candidates for Law Examination.



Registration of Private (External) Students.

Registration Branch has registered the private (external) students for the following examinations.

- B.A/B.Sc
Registration Branch registered 53842 candidates for B.A/B.Sc Examination in 2019. After evaluating online registration forms registration cards were issued.
- B.Com
Registration Branch registered 970 candidates for B.Com Examination 2019. After evaluating online registration forms registration cards were issued.
- M.A/M.Sc
Registration Branch registered 5700 candidates for M.A/M.Sc Examination 2019. After evaluating online registration forms registration cards were issued.

RESIDENT OFFICER-I

Security, House Allotment, Transport, Shops and Khokhas

Security

The security system of the Punjab University has improved manifold to conduct a thorough security evaluation. In order to improve the security arrangements, the University of the Punjab has taken immediate security steps/measures.

- The security staff deputed at University Gates is strictly instructed to check all the vehicles and also to check the visitors through metal detectors at all the entry points.
- In order to stop the entry of illegal vehicles in the University Campuses, stickers are being issued to all the vehicles of University faculty, students and employees who visit the University on regular basis. Without sticker, no vehicle is allowed to enter in the University premises.
- A Security Control Room has been established for proper monitoring all the CCTV Cameras.
- Security lights are being installed to have clear visibility by security guards.
- Recruitment of more security staff to upgrade the security arrangements.

Allotment of Houses (Teaching & Non-Teaching Staff)

Houses are being allotted to the teaching and Non-teaching staff in the Residential Colony regularly. The survey of the hired/self house of teaching/non-teaching staff in connection house requisition is also being carried out.

The office of Resident Officer-I allotted 81 Houses /Flats/Suites in Faisal Hall /Rooms in BMT and BFT Hostels to the teaching and non-teaching staff during the year 2017-18. New Sui gas meters have also been installed in the official residences of Teaching and Non-teaching staff in the residual colony of Punjab University.



Shops/Cycle Stand

The Rate and Rent Collector has updated all the record of Shops/Khokhas and Cafeteria and the shops are being allotted through advertisement in the leading newspapers and also on the basis of highest bidding.

Recovery of rent of Shops/Cycle stands/Towers

Recovery of Rent of Shops

| |
|--------------------------------|
| Rent Collected October 2017-18 |
| Rs. 1,44,79,404/- |

Recovery of Rent Cycle Stands

| |
|-------------------------------------|
| Rent Collected from October 2017-18 |
| Rs. 42,20,000/- |

Recovery of Rent Towers of Mobile Companies

| |
|-------------------------------------|
| Rent Collected from October 2017-18 |
| Rs. 1,35,04,852/- |

The booking of suites and barracks at Sir Syed Campus, Khanspur Ayubia, are being made to the teachers, students and employees of Punjab University as per their entitlement. Moreover, booking are also extended in off season outside University in order to generate maximum revenue for Punjab University. During the year 2017-2018, an income of Rs.14,00,000/- was generated through the booking of Suits, Side Rooms as well as Barracks.

TRANSPORT WING

Telephone No : 042-99239401
Contents : Transport Wing has fleet of 54 buses.

Repair & Maintenance of Vehicles

During the 1st Oct 2017 to 30 Sep 2018 Transport Wing has performed following activities in repair and maintenance of buses.

| a. Major Repair | No. of Buses |
|---|---------------------|
| Engine overhauling | 08 |
| Complete bus body repair & Denting and painting | 03 |
| Gate Hydraulic Jack | 07 |
| b. Minor Repair | No. of Buses |
| Leave spring repair | 150 |
| Gear box repair | 17 |
| Clutch repair | 58 |
| Radiator repair | 34 |
| Injunction Pump and atomizer | 26 |
| Seat Poshish and Bus Body repair | 10 |

**c. Increase of Store Item:**

It is pertinent to mention here that availability of sufficient store item minimize the overhead expenditure and improve the efficiency. Keeping in view Transport Wing purchased maximum spare parts item for Store Stock. Due to available of rich store, all the vehicles are found in working condition and ever ready for duty.

| Store Items | Available Quantity |
|-------------|--------------------|
| Spare Parts | 650 Types |
| Mobil Oil | 4800 Liters |
| Tyres | 200 Sets |
| Batteries | 50 Nos |

Revenue Receipt of Transport Wing

Statement showing detail of revenue as follows:

| | |
|-------------|---------------|
| Bus Passes | 2016-17 |
| Bus Booking | Rs. 3,383,957 |

Re-appropriation:

Resident Officer-1 has well control over expenditure of Transport Wing so that saving in different head of accounts could be made and re-appropriated for other objects without demanding of excess budget against following head of accounts:

| Sr. No | Budget Head | From Head of Account | To Head of Account (Machinery & Equipment) | Re-Appropriated Amount (Rs.) |
|--------|-----------------------|----------------------|--|------------------------------|
| 1 | Purchase of Batteries | 21-04 013001-07 | 21-04 09601-01 | 1,00,000/- |

RESIDENT OFFICER-II**Land Office**

This office looks after the landed property at the Quaid-e-Azam Campus. Some facts about the land are given below: -

| | |
|---------------------------|-----------------------------------|
| Total Land | 1781 Acres. |
| Cultivated Land | A - K - M 1031 - 1 - 10 |
| i) Under Self-Cultivation | 125 Acres |
| ii) Lease out Land | A - K - M 906 - 1 - 10 |

**1. Lease rate per acre (per annum), Rs:**

| | |
|-----------------------------|--------------|
| a) Tube well irrigated area | Rs. 45,000/- |
| b) Canal irrigated area | Rs. 56,000/- |

2. Income from leased out land Rs:

Rs. 4,31,57,462/-

3. Self-cultivation:

| | |
|--------------------------------------|--------------------------|
| a) Income from Self-Cultivation Land | Rs. 83,73,900/- |
| b) Expenditure | Rs. 47,35,200/- |
| c) Saving | Rs. 36,38,700/- |
| Grand Total | Rs. 4,67,96,162/- |

DEPARTMENT OF MOSQUES

Telephone (s): 0092 42 99231135

Email Address: incharge.mosque@pu.edu.pk

The Department of Mosques, Punjab University comprises six (06) mosques (four are situated in the Quaid-e-Azam (New) Campus & two are in the Allama Iqbal (Old) Campus), an Institute of Hifz-e-Quran adjacent to Jamia Mosque, an Institute of Nazira attached to E-Block mosque and a Library. All teaching, administrative and other official matters of all mosques, institutes of Hifz-e-Quran, Nazira and Library are controlled through the main office attached to Jamia Mosque, New Campus.

Six qualified and experienced teachers have been appointed to teach the admitted students in the Institute of Hifz-e-Quran. Regular classes are being conducted from Monday to Saturday in specific hours. To facilitate the admitted students, additional classes are also held after Maghrib prayer which is helping to enhance the religious academic capability of students. Moreover, students belonging to various departments of the university also attend these classes to learn and improve their reading ability of Holy Quran.

Following fifteen students of the Institute completed Hifz-e-Quran during Oct. 2017 to Sep. 2018.

- | | |
|-----------------------------|----------------------------|
| 1. Muhammad Haseeb Mushtaq | 2. Ali Faizan |
| 3. Muhammad Azan | 4. Muhammad Uzair Zahid |
| 5. Hamaad Siddiqi | 6. Jawad Siddiqi |
| 7. Jawad Ahmad | 8. Rana Muhammad Usman |
| 9. Muhammad Haris | 10. Muhammad Ihtsham Akbar |
| 11. Syed Haroon Shah | 12. Abdul Arham |
| 13. Awais Mustafa | 14. Ryan Abdullah |
| 15. Muhammad Hunzala Waheed | |



Separate classes for boys and girls are being arranged in the Institute of Nazira. For this purpose, services of female teachers for girls and male teachers for boys have been hired. Alhamdulillah, as many as 220 male and female students have been studying and 10 students completed the Quran.

Like previous years, the department arranged Aitikaaf in all the Mosques. But a large number of people offered their aitikaaf in Jamia Masjid. Renowned religious scholars delivered lectures on various Islamic topics for the educational and practical training of aitkaaf observers. The department arranged ceremony at each mosque in connection with Takmeel-e-Quran in which taraweeh prayer leader and listener were gifted books.

Development Activities

- Fall-ceiling was completed in the Chairman's office to avoid severe heat in summer season.
- Two water tanks were installed in the E-Block mosque to facilitate the prayerers.
- The service of air conditioners in the Jamia Masjid was carried out for their smooth functioning.

Library

The Library of Mosques Department provided quality services to its users efficiently throughout the year. To provide quality services, as many as 281 books in Urdu, Arabic and English languages, covering areas of Quran, Tafsir, Hadith, Fiqh, Seerat-un-Nabi (PBUH), etc. were purchased from October 2017 to September 2018, besides continuing the subscription of Islamic research journal for the library. The library collection during the said period reached 13702. The users were helped and guided about the use of catalogue for searching their required reading material from the library collection. They were provided books on demands in timely-writing their assignments. They were also provided facility of photocopying their required pages of the book for their assignment purposes. The users were provided congenial reading environment which helped them frequently visit the library on daily basis.

HALL COUNCIL

Telephone Numbers: 99231134, 99230280

Fax Number (s): 99231134

E-mail: hallcouncil@pu.edu.pk

The Hall Council is an important statutory body of the Punjab University. It supervises 28 University Hostels, administrated by 26 Wardens, 28 Superintendents, One Chairman Hall Council, One Secretary Hall Council, One Deputy Chairman Boys Hostels, One Deputy Chairperson Girls Hostels. In these 28 hostels more than 7,580 students are residing.

| | |
|---|-----------|
| 1. Boys Hostels at Quaid-e-Azam Campus | 15 |
| 2. Boys Hostels at Allama Iqbal Campus | 01 |
| 3. Girls Hostels at Quaid-e-Azam Campus | 12 |
| Total Hostel Male and Female | 28 |

**Special Checking For Unauthorized Persons**

The Hall Council, as per the vision of the Vice-Chancellor made special efforts to expel illegal occupants and a lot of success has been achieved with the positive cooperation of the Wardens and Superintendents. As a result of surprise visits, illegal persons were expelled from the hostels at the occasion. The disciplinary action was also taken against the students who had accommodated illegal persons.

Co-Curricular Activities

Every hostel organizes Annual Sports and Annual Dinners for the residents. The Hall Council supervises and provides facilities to conduct all such activities. It encourages the students to participate in the sports and other extra curricular activities arranged in the hostels and prizes are awarded to the winning students / teams. The residents of the hostels manage their mess by their own, through the mess committees formed under the supervision of hostel administration.

Basic Facilities provided by the Hall Council to the Hostels

The basic facilities for accommodation in rooms of the hostels have been provided by the Hall Council such as furniture, electric fans, water coolers etc, as per capacity and requirements. In addition, the Hall Council provides all maintenance and repair facilities to the Hostels throughout the year. The necessary items were purchased after the approval of the special purchase committee of the Hall Council and provided to the hostels. Medical facilities/Ambulance service is being provided to the resident students round the clock. The services of the University Physicians are also available in the night hours in emergency to the boarders. Hall Council offers complete medical cover to the residents of the hostels.

Study and Recreation Tours

Many Male and Female students/teachers from other Universities and Colleges of the country visited University of the Punjab as study tours in the year 2017-2018. The Hall Council made all necessary arrangements for their peaceful stay, and provided the facilities to visit the city of Lahore too.

Meetings

Special/routine meetings of Wardens and Superintendents were held to resolve various issues of the Hostels. With unanimous consensus many of the very delicate issues were resolved. In addition, the meetings of Purchase Committee, ad-hoc Committee were also held for the purpose.

Foreign Students

The rooms have been reserved in boys and girls hostels for Foreign Students and all necessary facilities are being provided to them so that they may feel at home in the hostels.

Street & Hostel Lights

With the help of the Engineering Department street light system in the hostels area has been improved. Water Sanitation conditions around the hostels have also been improved. Special attention has also been paid to increase plantation/greenery and natural beauty all around the hostels area.

**Funds Allocated**

In addition to the Budget estimate for year 2017-2018, Rs.1,50,000/- was provided to each hostel for repair/maintenance work. The amount has been spent for various maintenance/repair works to provide better facilities to the resident students.

Prospectus

The updated prospectus of Hall Council was printed and distributed to all Departments/Institutes/Centers/Constituent Colleges for information of the rules and regulations of the Hall Council for the allotment of their students in 2017-2018.

Arrangements for Security Measurement

After the attack on Army Public School, Peshawar by the terrorists and prevailing presents threats, the Hall Council made emergent decision regarding the high security measures to be taken for all hostels and surrounding areas.

Emergent Decisions

- A complete ban has been imposed on entry of non-resident students/general public in the hostel area.
- A complete ban has been imposed on the traffic shortcuts through the hostel area.
- A large number of students of afternoon/replica program are accommodated in male and female hostels as paying guests.
- The security on entry/exit points of Hostels areas was beefed up by appointing two Chowkidars during each shift of 12 hours instead of one.
- All Chowkidars/sweepers have been directed to wear uniform during duty hours.
- Security cameras were installed in the hostel areas.

CAREER COUNSELING & PLACEMENT CENTRE

Career Counseling & Placement Centre was the idea of Dr. Abdul Qayyum Ch. which was established & materialized by the Authorities of the University of the Punjab in 2003, the major purpose to establish this center was to provide Career Counseling & Placement services to the students, employees and teachers of the University of the Punjab regarding their personal, professional and career development.

Keeping in view the ever evolving knowledge and cutting edge technologies, it has become the primary aim of this Centre to bridge the Gulf between Job Market and various academic departments / institutes through joint sessions and collaborative networking. We are providing trainings to our University Students regarding life skills and employability skills i.e. how to prepare for powered CV, Interview Skills, Self-Motivation and positive thinking, Creative Thinking, Self-esteem, Decision Making, Learning Attitude, Stress Management, Effective Verbal & Non - Verbal Communication, Interpersonal Communication Skills and job hunting strategies etc.

In March 2009 the present Director of this Centre Dr. Abdul Qayyum Ch. again took over the charge of Career Counseling & Placement Centre, and revitalized its services since then the center has developed more than 200 Linkages / Recruitment Partnerships with different leading Organizations / Companies / Banks and Industries for Job placement of our graduates.



Career Counseling & Placement Centre is working quite in line with the vision plan of current National Education Policy & HEC's guidelines to provide career counseling and placement services to the University Graduates. We have been continuously imparting employability skills and also helping in career counseling and job Placement to our potential graduates. Thousands of our graduates have been facilitated for various Jobs through this Centre. We are also continuously offering trainings / seminars to graduates regarding job market, employability skills with the help of highly professional entrepreneurs, CEOs and business managers through joint sessions. We are also conducting one – to- one session with our student(s) regarding selection of career path, career choice, career development according to their aptitude and attitude which ultimately lead them to become productive citizens of Pakistan.

Types of Services

- Orientation and guidance services for new entrants to acquaint them to the University life.
- Educational and Occupational Information Services
- Counseling and Advisory Services may include personal, social emotional and financial problems.
- Services to International Students.
- Image Building of the University
- Job Bank
- CV bank of PU students
- Follow-up Services
- Revitalizes the Alumni

List of Tasks / Assignments Completed during the last tenure

Workshops/Training Sessions were conducted in the various departments of the University of the Punjab on the following topics:

| Sr. No. | Department | Topic | Date |
|---------|--|--|---------------------------------|
| 1 | Department of Botany | Effective Time Management | 9 th October, 2017 |
| 2 | Department of Zoology | How to Adjust to Campus Life | 13 th November, 2017 |
| 3 | Department of Economics | How to Adjust to Campus Life | 11 th December, 2017 |
| 4 | Institute of Business & Information Technology | Effective Interview Skills | 15 th January, 2018 |
| 5 | Department of Statistic & Actuarial Sciences | The Role of Motivation & Positive Thinking in Life | 12 th February, 2018 |
| 6 | Department of Chemistry | Effective Interview Skills | 5 th March, 2018 |
| 7 | Department of Mathematics | Effective Interview Skills | 9 th April, 2018 |
| 8 | Department of Space Sciences | The Role of Motivation & Positive Thinking in life | 14 th May, 2018 |



| | | | |
|----|-----------------------------------|--|----------------------------------|
| 9 | Department of Geology | Time Management | 11 th June, 2018 |
| 10 | Department of Gender Studies | Interview Skills | 2 th July, 2018 |
| 11 | Chemical & Engineering Technology | The Role of Motivation & Positive Thinking | 13 th August, 2018 |
| 12 | Department of Botany | Effective Time Management | 10 th September, 2018 |
| 13 | Institute of Education & Research | CV Writing | 8 th October, 2018 |

- One day training workshop for the focal persons in various departments of University of the Punjab was conducted on 14-09-2017 and it was presided over by the worthy Vice Chancellor PU.
- The task of preparing list of potential employers, updating the data of alumni & the CV folder of the passing out graduates was assigned to focal persons. The lists were updated in the data bank of CC&PC
- Career Counseling & Placement Centre arranged a recruitment drive in collaboration with Fauji Fertilizer Company on 09-10-2017 in the Institute of Chemical Engineering & technology University of the Punjab.
- A one day seminar on “Youth and Future Challenges” was held in the Institute of Administrative Sciences University of the Punjab on 19-10-2017. Lt. Gen. (R) Ashraf Saleem addressed the Student and gave them valuable suggestions to cope with the future challenges in life. The report was duly submitted to the VC office.
- Individual and Group counseling of the students was conducted regarding the academic issues, Adjustment problems, Emotional issues and any other issues raised by the students.
- Contacts were established between Academia/Industry to explore and secure job/ Internship opportunities for our graduates.
- To locate and upload various types of jobs for the graduates of the university of the Punjab on the Facebook page of Career Counseling and Placement center. Besides, job requests received from various organizations/industry through emails are monitored, uploaded, and forwarded to concerned departments for action.
- Students of PU visit career counseling office for mentoring, guidance and also to seek solutions to their questions regarding personal and academic life.
- Visitor’s queries are also met to their satisfaction to build and promote the positive image of this prestigious university.
- Representative of different organizations make personal visit to explore opportunities for the employment of PU graduates
- Information/guidance is also provided to the students /outsiders regarding admission queries etc.