

Chapter 2 Research and Development

FACULTY OF ARTS & HUMANITIES

DEPARTMENT OF ARCHAEOLOGY

- **Publications**

Research Paper: Dr. Farzand Masih

- “Chaukundi Tombs: Significance of symbols and motifs in Funerary Art of Sindh. “Ancient Punjab Vol-II”
- Origin and Evolution of Nagara Sikhara Temple Architecture with Special Reference to the Salt Range Temples. “Ancient Punjab Vol-II”
- Editor “Ancient Punjab” Vol. II 2012
- Authorship “Research report on “Sui Vihar Excavations and Archaeological Reconnaissance of Southern Punjab”.

Dr. Tauqeer Ahmad Warriach

- “Cultural Impact of the Achaemenian on Ancient Pakistan”, South Asian Studies. A Research Journal of South Asian Studies Vol. 27, No. 01, January – June 2012.
- “Gandahar: An appraisal of its meaning and History” Journal of the Research Society of Pakistan, Vol. 48, No.1, 2011.

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

- Two Days Workshop on Significance of Pottery in Archaeological Studies December 19 – 20, 2011 UNESCO’s sponsored project Sui-Vihar Excavations and Archaeological Reconnaissance of Southern Punjab.

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **Research Journals**

The Department of English publishes annually two Journals:

- i. Journal of Research (Humanities) HEC recognized ‘Z’ Category
- ii. Journal of English Studies

RESEARCH COLLABORATION

- **Foreign Linkages**

- St. Andrews University, Scotland

DEPARTMENT OF FRENCH LANGUAGE & LITERATURE

- **Research & Development – An Overview**

- A Research Wing was introduced with its various operating desks. In its first phase a Translation Desk was launched:

Translation desk (French – English/Urdu and vice versa):

- Professional / legal documents; Regular / personal documents;
- Latest research papers, articles and reviews ;
- The translation desk aims to provide authentic translation services to the public sector and to facilitate mutual collaboration at international level especially with the French counterparts. It addresses various businesses and multinational companies, online sales and advertisements, and those who plan to pursue higher education abroad.

- **Projects: Ongoing**

- A project entitled “French translation of Iqbal’s persian poetry” was initiated in October 2011 by Dr. Saleha Nazeer on the advice of certain French scholars who remarked that since many decades no work on the French translations of Iqbal’s thought was done. The few translations that exist were found to be deviating from the main Iqbalian themes as they were carried out through secondary source and not from the original Persian/Urdu texts. The current study focuses Allama Iqbal’s thought through analysis and translations of Iqbalian texts in French. Various literary constructions and social themes that Iqbal’s poetry has addressed, are being annotated as per requirement of the translated sections so as to provide an easier comprehension of Iqbalian themes to the foreign reader with their philosophical explanations. In the first phase of the project, poetic collections from Iqbal’s “Armaghan-e-Hijaz” are currently being translated from Persian to French.

- **Publications**

- Dr. Saleha Nazeer’s research article in French, “*Traduire la khudi iqbalienne*”, based on her participation in an international conference in France, got published in Revue E-crit, No. 4, *Traduire pour découvrir ou pour neutraliser*, Journal of linguistics published by the University of Franch-Comté, Besançon, France, may 2012.

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

Organization:

- A Teachers Training Workshop for French Online Programme was organized on 25.6.12 at the Main Library, University of the Punjab. This training session was conducted by Dr. Saleha Nazeer. The focus of this workshop was to train the Teachers to conduct online sessions to teach French language. Various pedagogical areas of the French online-course web site were explored and practiced by the attendees.

Dr. Saleha Nazeer participated in the following international / national conferences and workshops :

- Turnitin Webinar on “Getting students started with Turnitin, 4th Sept. 2012.
- Turnitin Webinar on “Plagiarism Spectrum – Insight into the 10 types of unoriginal work”, 11th Sept. 2012.
- Turnitin Webinar on “Originality, Plagiarism, and the Web”, 18th Sept. 2012.

- Turnitin Webinar on “Best practices for Teaching with turnitin” 25th Sept. 2012.
- Workshop on “Research Ethics, Endnote and Turnitin, held at Library & Information Sciences Department, Punjab University, 25th-26th Sept. 2012.
- Training session on “Qualitative Research using “NVivo” Software - Hands-on-Practice “ by HEC held at the Undergraduate Block, Punjab University, 7th July 2012.

Paper Presentation:

- Dr. Saleha Nazeer presented paper on « *Lecture des textes plurilingues d'Iqbal* » in an International conference on *Traduction, plurilinguisme et langues en contact : traduire la diversité*, organized by LLA-CREATIS (Lettres, Langage et Arts – Création, recherche, Emergence en Arts, Textes, Images, Spectacles, EA 4152) at the University of Toulouse le Mirail, France, 18th-20th October 2012.

Other Academic Events:

Events	Date	Chief Guest(s)	Venue
Journée de la Francophonie (Francophony Day Celebration)	5-4-2012	French Ambassador and Vice Chancellor & students	Al-Razi Hall, Undergraduate Block, PU.
Guest Lecture by Dr. Aamir Khan (LUMS)	5-7-2012	Teachers and students from English and French departments	English Department
Certificate Distribution Ceremony	12-9-2012	Prof. Dr. Zakria Zakar	French Department

Journée de la francophonie (Francophony Day) :

- As a part of its "Journée de la francophonie" celebrations, an inter-institutional speech contest in French was organized by the French department in April 2012. French departments from 6 institutions, universities, colleges, institutes participated in the event. The speech title was :

Is today's education adequate for the character building of our new generation?

- Amongst the six institutions that participated in the speech contest, Aitchison College got 1st prize, Alliance Française stood second and Kinnaird College bagged the third prize. The speech topic was “Is today's education adequate for our character building?” The students from LUMS, Lahore College for Women University and Fatima Jinnah Girls College also took part in the contest.
- The French Ambassador in Islamabad, Mr. Philippe Thiebaud, the Cultural Counselor from the French Embassy Mr. Frederic Bessat, the Director Alliance Française Lahore Mr. Dominique Scobry and the Vice Chancellor Punjab University Prof. Dr. Mujahid Kamran were the honorable guests at the occasion.
- Speaking at the occasion, the French Ambassador Mr. Philippe Thiebaud said that Pakistan is one of the largest trade partners of European Union, adding that his country will promote relations between the two societies. He also said they were keen to enhance Pakistani exports to Europe.

He added that French was not only a language of art and culture but also a huge literature of science and economics was available in the language. Prof Mujahid Kamran said that the Francophony Day was the best opportunity for the students to express better in the language they were learning. He urged the students to learn French and other important languages of the world. He thanked the French Ambassador for collaboration with PU's French Department and lauded the efforts of Prof Dr Saleha Nazeer.

- Dr. Saleha Nazeer highlighted major achievements of the department and announced launch of 4 years BS (French) in the upcoming session. She said it was after a lapse of almost 40 years that the French Department had a faculty member with PhD in French. She hoped to strengthen the Department by planning MPhil / Ph.D programmes in future.

Guest Lecture on French Literature:

- Dr. Aamir Khan, Associate Professor of Marketing at the Suleman Dawood School of Business (SDSB), LUMS delivered a literary talk titled, The Author is Dead: Meaning and Interpretation of French literature in the 17th, 18th and 19th centuries, at the University of Punjab (PU) on Wednesday, July 5, 2012.
- The talk was attended by the students and faculty of both the French and English Literature departments at PU. The focus of the discussion was on the role of "first person" in the 18th century novel, including both the memoir novel (Manon Lescaut by Abbe Prevost and La Religieuse by Diderot); the epistolary novel (Liaisons Dangereuses by Laclos). Then, the evolution of third person narration which started in the first half of the 19th century, was discussed for which Stendhal's masterpiece, "Le Rouge et Le Noir" was taken as an example.
- During the session, the text from Le Rouge (Julien Sorel's role) was also thoroughly analysed. Since the audience included students and faculty from post graduate level the discussion was a bit technical but the idea was to see how the narrative structure of the novel both constrains the novelist and allows him to experiment. In the end, it is up to the reader to find the interpretation that best stands the test of criticism, without referring to what the novelist really means. Dr. Khan and the audience both discussed other relevant work, both in the novel genre (Madame Bovary, Crime and Punishment, but also the novels of D. H. Lawrence) and in other genres, including 17th century French tragedy (Racine's plays) and even the movies (Predator, Rab nay bana di jori).
- The audience, comprising of brilliant researchers, asked probing questions and made insightful comments. Overall the session was very knowledge enriching experience with a thorough exchange of perspectives which were thought provoking for many.
- The session concluded at the certificates distribution ceremony to the French language students.

DEPARTMENT OF HISTORY

• **Research & Development – An Overview**

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 Departments among the various Universities of Pakistan. It is a pioneer Department in South Asia for advanced studies and enjoys in 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. Zavar Hussain Zaidi, Syed Ali Abbas, Prof. Dr. Yar Muhammad Khan, Prof. Muhammad Aslam, Prof. Ikram Ali Malik, Prof. Dr. Sadiq Ali Gill and Prof. Qamar Abbss. 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.

Department is planning to greatly strength the Ph.D programme. Three students have completed Ph.D and Eight students have been completed M.Phil in History and in this connection our Four teachers are currently working on their Ph.D dissertations'. They are expected to complete their Ph.D in 2013.

• **Students Completing their Ph.D**

- Eight students doing Ph.D from History Department as regular

• **Publications**

1. Articles of Prof. Dr. S.Qalb-i-Abid
2. Articles of Mrs. Rukhsana Iftikhar
3. Articles of Mr. Mahboob Hussain

Authors Name	Book/Article Name	Journal with date	Duration	Sponsoring
Prof. Dr. S.Qalb-i-Abid	The Palestine Problem in Internatonal Politics (Book)	January 2012		Self
	Articles			Nil
	1. The Nehru Report and After	Journal of Research Society of Pakistan Vol-49 January-June 2012	Six Months	
	2. Negotiating a Space for Punjab Muslim League	Journal of Research Society of Pakistan Vol 49 January – June 2012	Six Months	Nil

Authors Name	Book/Article Name	Journal with date	Duration	Sponsoring
Mrs. Rukhsana Iftikhar	Lahore Class for Women in Mughal India	Research Journal of South Asian Studies Vol. 27 January-June 2012	Six Months	Nil
Mr. Mahboob Hussain	Eighteenth Amendment in the Constitution of Pakistan: Success and Controversies	Asian Social Sciences Vol. 8 June 2012	Six Months	Punjab University

- **Conferences**

- International Conference on Pakistan Challenges to Democracy Governance and National Unity held on 24th-25th October 2011 (Joint Conference History and Pakistan Study Center) sponsoring and Funding by the Higher Education Commission and University of the Punjab, Lahore.

RESEARCH COLLABORATION

- **Indigenous**

3 Students are doing Ph.D through HEC 5000 indigenous Scholarship

DEPARTMENT OF LITERARY HISTORY

- **Research & Development – An Overview**

- A Literary History of Muslims of Indo-Pak is being prepared. So far, four volumes have been published by the University Press. Volume four appeared in the year under review.
- Volume fifth is already complete and has been sent to the press for printing.

- **Publications**

The Director got published the articles as detailed below:

- Two articles titled “Iqbal ki urdu sha’iri mein ha’yet k tajrebat” and “Iqbal aur fascism” were contributed to the “Encyclopaedia of Iqbal” being prepared by the Department of Iqbal studies P.U. Lahore.
- “Iqbal and Khalifa Abdul Hakim”, Quarterly al Ma’arif, Lahore. Dec 2011.
- Analysis of a poem of N.M. Rashid
- Ma’yaar (7), June 2012. International Islamic University, Islamabad.
- Faiz – The most important poet of Modern times, Ravi G.C.U, Lahore, 2011.

DEPARTMENT OF PHILOSOPHY

- **Publications**

Sr. No.	Name of Author	Title of Paper/Article/Publications
1	Dr. Abdul Hafeez	1. The way of Shahideen: The construction of a Quranic theology of sufism in <u>Tafseer-e-Fazli</u> Published in International Journal of Humanities, and Social Sciences (IJHSS) special Issue Vol. 2 NO. 16, (August 2012), P.P. 259-275, USA

Sr. No.	Name of Author	Title of Paper/Article/Publications
		2. Antinomy of free will and pre-Ordered sustenance (IJHSS), Vol. 2, No. 19 (October 2012) USA. P.P. 192-194 3. Number of verses of the Quran (Index and Argument) (IJHSS), Vol. 2, No. 19 (Oct, 2012) USA, P.P. 264-267 4. Knowledge of Allah's pleasure (Rada) and knowledge of Allah's will (Mashiyat) (IJHSS), Vol. 2, No. 19 (Oct, 2012) USA. P.P. 298-300
2	Dr. Ali Raza Tahir	1. The Concept of Ethical Life In Islam 2. Muslim Mysticism - A Critical Appreciation 3. Pre – Zoroaster Persian Thought 4. Sheikh al Ishraq Shahale-al-Din Suprawardi in the Perspective of Allama Dr. Muhammad Iqbals' Thought. 5. Muslim Metaphysics – An Exposition 6. Good – with Special Reference to Nahjul – Balagha 7. Syed Jamal al Din Afghani (A first Glow of Dawn on the Horizons of the Muslim World) 8. Islam's concept of Jihad (A Philosophical Analysis) 9. Voice of the East (A Prologue to Iqbals' life and Thought)

CENTRE FOR SOUTH ASIAN STUDIES

• **Research & Development – An Overview**

- 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) is a regular and valuable publication of the Centre. The Centre has organized more than 110 Seminars on different topics of national and international importance. More than 185 dignitaries of national and international repute have also visited the Centre on different occasions.
- During the period from October 2011 to September 2012, the Centre has organized seven seminars as well as one National Conference on “Pakistan's Internal and External Security: Challenges and Options” in collaboration with Department of Political Science, University of the Punjab, Lahore. The Centre has published five publications (2 books and 2 issues of its Bi-annual journal - South Asian Studies i.e. Vol.26 No.2 & Vol. 27, No.1).

• **Publications**

Books:

- Prof. Dr. Muhammad Jahangir Tamimi, Zawal Say Iqbal Tak, 2011
- Prof. Dr. Umbreen Javaid, Peace Building in South Asia : Limitations and Prospects, 2012
- Naheed S. Goraya (Co-author) Issues and Challenges in SAARC Countries (2011)

Articles:

Sr. No.	Name of Author	Title of Article
1	Prof. Dr. Umbreen Javaid	“Partnership in War on Terror and Mounting Militant Extremism in Pakistan”, South Asian Studies, Vol.26, No.2, P.227-239, December, 2011, Centre for South Asian

Sr. No.	Name of Author	Title of Article
		Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
2	Muhammad Rashid Khan (Co-Author)	"Peace Journalism and Conflict Reporting : The Case of Pakistani Media", South Asian Studies, Vol.26, No.2, p.311-324, December, 2011, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
3	Prof. Dr. Umbreen Javaid	Socio-Political Status of Muslims in India : Post Partition", South Asian Studies, Vol.27, No.1, p.7-19, January-June 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
4	Muhammad Sohail	"Origin and Development of Urdu Language in Sub-Continent : Contribution of Early Sufia and Mushaikh", South Asian Studies, Vol.27, No.1, p.141-169, January-June 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
5	Abdul Majid	"Future of Untouchables in India : A Case Study of Dalit", South Asian Studies, Vol.27, No.1, p.263-285, January-June 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
6	Dr. Muhammad Rashid Khan	"Nuclearization of South Asia : A Discourse Analysis of the Hindustan Times and Dawn", South Asian Studies, Vol.27, No.2, p.421-438, July-December 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
7	Ms. Naheed S. Goraya (Co-author)	"Ethnic Factor in Afghanistan", Journal of Political Studies, Department of Political Science, University of the Punjab, Quaid-e-Azam Campus, Lahore, Vol.19, No.2 (Winter 2012)
8	Ms. Naheed S. Goraya (Co-author)	"An Analytical Study of Pak-U.S. Relations : Post Osama", South Asian Studies, University of the Punjab, Lahore, Vol.27, No.1, January-June, 2012.
9	Ms. Naheed S. Goraya (Co-author)	"Balochistan (From Strategic Significance to U.S. Involvement)". Journal of Political Studies, Department of Political Science, University of the Punjab, Quaid-e-Azam Campus,, Lahore, Vol.19, No.1 (Summer 2012)
10	Ms. Naheed S. Goraya (Co-author)	"Drone War Against Pakistan : An Analytical Study", Journal of Political Studies, Department of Political Science, University of the Punjab, Quaid-e-Azam Campus, Lahore., Vol.18, No.2, (Winter 2011)

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

Conference:

- National Conference on "Pakistan's Internal and External Security: Challenges and Options" was held on 08.03.2012. The conference was organized by the Centre for South Asian Studies in collaboration with Department of Political Science, University of the Punjab, Lahore.

Seminars:

- Importance of Islam and Existence of Pakistan, held on 05.01.2012 at 12.00 p.m. The Seminar was held by Department of Political Science in collaboration with Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore. Students and teachers of both the departments attended the seminar.
- Muslim Ummah Kay Masail aur un ka Hal held on 08.02.2012 at 12 p.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Mr. Aneeqe Ahmad from Dunya T.V. was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholar from the Centre as well as Department of Political Science.
- Human Rights in South Asia with Special Reference to Pakistan held on 22.11.2012 at 11:30 a.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Mr. Muhammad Yousaf, Deputy Director, Human Rights Department, Government of Punjab, Lahore, was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science.
- Realigning Options, Outlets and Opportunities for a Post-2014 Afghanistan held on 27.11.2012 at 12:00 p.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Dr. Najam Abbas, Senior Fellow focusing on Central and South Asia, East West Institute, Belgium, was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science.
- Dismemberment of Pakistan: December 16, 1971 held on 18.12.2012 at 11:00 a.m. in the Auditorium of the Centre. Lt. Gen. Naseer Akhtar and Mian Mehboob Ahmed, Ex-Chief Justice, were the keynote speakers. Prof. Dr. Umbreen Javaid welcomed the speakers and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Application of Psychology to War and Peace The seminar was held by the Department of Political Science in collaboration with the Centre for South Asian Studies, in the Al-Razi Hall, Undergraduate Block, University of the Punjab, Lahore, on 20.12.2012 at 10.00 a.m. Dr. Daniel J. Christie, Professor Emeritus, Peace and Conflict Studies, Ohio State University, USA was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Research Methodology in APA (A one day workshop) held on 28.01.2013 at 11:00 a.m. in the Auditorium of the Centre. Prof. Dr. Khalid Mahmood from Department of Library and Information Science, University of the Punjab, Lahore, delivered lecture on the subject. The workshop was held in collaboration with the Department of Political Science. Prof. Dr. Umbreen Javaid, Director of the CSAS welcomed the M.Phil/Ph.D. scholars from the CSAS/Department of Political Science.

- **Research Journals**

Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore, regularly publishes a Bi-Annual Research Journal, South Asian Studies. The following issues have been published during the required period.

- South Asian Studies, Vol.26, No.2, December, 2011, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
- South Asian Studies, Vol. 27, No. 1, January, 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore.

RESEARCH COLLABORATION

- **Funding Grants for R&D**

- Research - Rs. 1,47,82000

PAKISTAN STUDY CENTRE

- **Research & Development – An Overview**

- 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 our research journal 'Pakistan Vision'. 40 books have been published so far.
- The Centre's research journal, 'Pakistan Vision', is published bi-annually. It has been recognized by Higher Education Commission and has been made 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 and 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.

- **Projects (i) Completed**

- The Centre has published 1 book titled '*Punjab Politics: Diarchy to Partition*', two issues Vol. 12, No. 2, December 2011 & Vol. 13, No. 1, July 2012 of research journal, *Pakistan Vision*, two issues of quarterly *India Desk*.

- **Publications**

The Centre has been publishing books, a bi-annual research journal and quarterly India Desk on regular basis. Following were published during the period under review:

Book:

- Punjab Politics: Diarchy to Partition'

Research Journal:

- Pakistan Vision, (Journal) Vol. 13, No. 1, July 2012
- Pakistan Vision, (Journal) Vol. 12, No. 2, December 2011

Regional Publications:

- India Desk, January-March 2012
- India Desk, October-December 2011

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

- Seminar on '*Pakistan: Between Afghanistan and India*' on Thursday, October 18, 2012. Keynote Speaker: Prof. Dr. Piotr Balcerowicz, Professor of International Relations, Chair of South Asia, Faculty of Oriental Studies, University of Warsaw, Poland.
- Seminar on '*Pak-China Relations: Trade & Economic Cooperation*' on Thursday, April 19th, 2012. Keynote Speaker: Mr. Zhou Ruguang, Vice-President, Xuzhou Normal University, China
- Special lecture on '*PhD Thesis Writing*' on Friday, February 24, 2012. Keynote Speaker: Prof. Dr. Bettina Robotka, Institute of Asian and African Studies, Humboldt University of Berlin, Germany
- Seminar on '*Mohammad Ali Jinnah's vision of Pakistan*' on Wednesday, January 4, 2012. Keynote Speaker: Mr. Qayyum Nizami, Renowned Author & Researcher
- Seminar on '*Recent Irritants in Pak-US Relations*' on Monday, November 14, 2011, Keynote Speaker: Mr. Dennis Kux, Former Ambassador and Author

- **Publication of Research Journal Pakistan Vision**

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

- Pakistan Vision, Vol. 13, No. 1, July 2012
- Pakistan Vision, Vol. 12, No. 2, December 2011

Following research articles were included in the last two issues of 'Pakistan Vision'.

- **Pakistan Vision, Vol. 13, No. 1, July 2012**
 - Jean-Luc Racine, Pakistan's Predicament: The Diagnostic And The Debates Within
 - Michel Boivin, Pakistan as a topic in French academia: Challenges and resistance
 - Massarrat Abid/Qalb-i-Abid, The Unionist Support for War Efforts
 - Ahmad Ejaz, United States - India Relations: An expanding strategic partnership
 - Safdar Ali Sherazi, Temporal Analysis of Land Use and Land Cover Changes in Lahore-Pakistan
 - Naumana Kiran, Political Stability in Pakistan: Regionalism and Role of Cabinet (1947-1958)
 - Qalb-i-Abid/Massarrat Abid, Punjab and the Extension of Reforms Package
- **Pakistan Vision, Vol. 12, No. 2, December 2011**
 - Sajida Shabbir, Struggle for Muslim Women's Rights in the British India (1857 – 1947)
 - S. Qalb-i-Abid / Massarrat Abid, Boundary Commission Tilting in favour of "Other Factors"
 - Muhammad Hassan, Causes of Military Intervention in Pakistan: A Revisionist Discourse

- Massarrat Abid/ S. Qalb-i-Abid, Beginning of the Indo-Pakistan Disputes: British Secretly supporting Indian Government
- Ayesha Shehzad, The Issue of Ethnicity in Pakistan: Historical Background
- Rizwan Ullah Kokab, Constitution Making in Pakistan and East Bengal's demand for Provincial Autonomy (1947-58)
- Taimur-ul-Hassan / Munawar Sabir, Portrayal of NGOs in National Press
- M. H. Bukhari/Ejaz Ahmad Sayal, Emerging Climate Changes and Water Resource Situation in Pakistan

RESEARCH COLLABORATION

• Indigenous

- The Centre has been collaborating with various universities and national and 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

- A five member delegation Xuzhou Normal University, China visited the Centre and a MoU was signed between Pakistan Research Centre, Xuzhou Normal University, China and Pakistan Study Centre, University of the Punjab, Lahore.

• Funding Grants for R&D

- Applications to HEC and Punjab University for Grants of Research Projects have been made and positive response has been received.

RESEARCH SOCIETY OF PAKISTAN

• Publications

Books Reprinted

- The Emergence of Pakistan

Books Printed

- Sardar Dyal Singh Majithia, The Establishment of Punjab University
- Gamal Abdul Nasser and After the Palestine Problem in International Politics
- The Creation of Pakistan

Books Under Press/Print

- Pakistan, Challenges to Democracy, Governance and National Unity
- Partition and Anglo-Pakistan Relations 1947—51
- Pakistan Movement, Muslim League - Congress and the British
- Punjab Politics, Dyarchy To Partition

Number of Books in the Library

- The total number of books in the library of the Research Society of Pakistan is 8845

Number of Publication

- Titled of Books so far books published by the Research Society of Pakistan 108 Books.

- **Research Journals**

- Published in January- June 2011
- Published in July - December 2011
- January to June 2012

COLLEGE OF ART & DESIGN

- **Research & Development – An Overview**

- The Research Centre of the College was established in 2003. The centre was designed to produce creative and intellectual manpower in the field of Fine Arts.

- **Publications**

- The College has published its first research journal, entitled “JAMAL” a journal of aesthetics. However, the HEC Criteria in the subject of fine Art (Studio Practice) regarding Research and Publications is in the form of Art Exhibitions and other professional activities of outstanding and substantial level. The research work of the faculty comprises of exhibitions and design projects apart from research publication as well. The Research articles are followed by a list of exhibitions.

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

Prof. Dr. Rahat Naveed Masud**Exhibitions in Foreign Countries**

- 2012 Exhibition at Parliament House London Uk, 23rd January, 2012.
- 2012 Participated in a group show at Noyes Arts Center, Chicago USA from January 6 to January 16 2012.
- 2012 Art-Avis a Painting Show organized at Hamail Art Gallery, Dubai.
- 2011 Exhibition in Art Expo Malaysia 2011 at Matrade Exhibition & Convention Centre, Kuala Lumpur, Malaysia from Oct. 28 to Nov. 1, 2011.

Exhibitions in Pakistan

- 2012 Curated an Exhibition on Landscapes, Cityscapes and related Conceptual Paintings jointly organized by Lahore Museum College of Art & Design at Lahore Museum on November 22, 2012.
- 2012 An Exhibition on Women International Day at Alhamra Art Gallery organized by Lahore Arts Council on 9th March, 2012.
- 2012 Exhibition of Painting by Women Artists organized by PNCA, Islamabad.
- 2012 Inaugural Show Ze-Grill Art Café, Ejaz Art Gallery, Lahore.
- 2012 Inaugural Show Color Art Gallery, Lahore.

- 2011 Solo Show Ishq Series, Art scene Gallery, Karachi.
- 2011 Solo Show Ishq Series, Ejaz Gallery, Lahore.
- 2011 Exhibition on Anwar Afzal Students & contemporaries, Ana Molka Art Gallery, College of Art & Design, University of the Punjab, Lahore.
- 2011 Participated in the exhibition on Faiz art prize, organized by Nukta & Faiz Foundation, Karachi.
- 2011 Group Show, Co-opera Art Gallery.
- 2011 Group Show, Vogue Art Gallery.
- 2011 Passage through Pakistan, Royaat Gallery, Lahore.

Papers/Lectures/Seminars/Symposiums/Conferences

- Participated in a symposium organized by Artist Association Punjab at Alhamrah Hall No. 3, The Mall, Lahore on Saturday 07 May, 2011.
- Organized a ceremony seminar in honour of Prof. Dr. Shaukat Mahmood recipient of Sitara-e-Imtiaz on 6th May, 2011.
- Presented a documentary in the 6th Annual HSS Conference from 25-27 March, 2011 at Lahore University of Management Science, Lahore. Pakistan.
- Attended a National Conference on National Interest and Responsibilities of the State organized by Artist Association of Pakistan in 2011.
- Gave a presentation on the recent exhibition Ishq series, on Wednesday 2nd march, 2011 at College of Art & Design.
- Organized Mehfil Milad at College of Art & Design 25.02.2011.
- Organized the visit of a USA delegation of Rotary Club of Wilmington, Delaware's to the College of Art & Design, University of the Punjab on Thursday, the 17th of February 2011.
- Organized a reference in memory of late A.R. Nagori on Monday 24th January, 2011.
- Organized an exhibition and workshop by Australian artist, Mr. Murtaza Haq at Anna Molka Art Gallery, College of Art & Design on 4th July, 2011.
- Organized a Talk by Ejaz ul Hassan "five Decades of Painting of Painting" at College of Art & Design.
- Organized a Seminar & Exhibition on Zubeda Javed eminent painter and alumni of the College.
- Organized a reference in memory of late M. F. Hussain, a famous Indian Poet will be held on Monday 27th June, 2011.
- Organized a seminar in honour of Prof. Anna Molka Ahmad on 7th June, 2011.
- Helped to organize a seminar by Mr. Ahmad Javed, an eminent scholar and humanist on 26 May, 2011 at College of Art & Design.
- Conducted a Seminar at Middlesex University London by presenting a documentary film on Shrine Culture 2012

- Read a paper on Artist and World Today at Alhamra organized by Punjab Artists Association on May 2012.
- Read a paper on at Alhamra International Conference on Literature & Culture 14-16 May, 2011.
- 2011- Presentation of documentary films. Prayers & Popular Culture at "THAAP" lecture series.
- 2012- Chaired Session at THAAP Conference, "Life in Small Towns".

Maliha Azami Aga

- Read a paper in a Seminar on Art & Culture, titled: "New Movements in Pakistani Art". Organized by PNCA, at the AlHamra, Lahore. 2011.
- Conducted and compered the International Dance Day Show at the Avari Hotel, organized by PNCA. 2011.
- Attended a Seminar on "Organizational Intelligence", Punjab University, New Campus. 2011.
- Prepared the course outline/curriculum for the subject of Graphic Design, for the entire four years of B.F.A. (Hons.) and M.F.A.,(two-years programme), to be presented to the Board of Studies. 2011.
- Prepared the course outline/curriculum for the subject of Illustration, for B.F.A. (Hons.) and M.F.A.,(two-years programme), to be presented to the board of Studies. 2011.
- Participated in the 'Faiz Art Prize'. 2011.
- Appointed, as a subject specialist Punjab Public Service Commission. 2011.
- Invited as subject-specialist to conduct interviews, for the post of Lecturer, Fine Arts, in the Punjab Higher Education Department. November, 2011.
- Judged the all-Pakistan Paintings Show at King Edward Medical College. June, 2012.
- Participated in a group show of Paintings in memory of (late) Mrs. Anwar Afzal, at the Anna Molka Art Gallery, College of Art & Design. January, 2012.
- Attended and participated in a reference in memory of Mrs. Anwar Afzal. January, 2012.
- Co-ordinated and conducted the opening of the 'Gosha-e-Behzad-o-Mani', at the College of Art & Design, P.U., Old Campus. January, 2012.
- Designed the invitation card for the opening of the 'Gosha-e-Behzad-o-Mani', College of Art & Design. January, 2012.
- Participated in a group show of Paintings at the Anna Molka Art Gallery, College of Art & Design. January, 2012.
- Organized and conducted the 26th Annual Exhibition of the Artists' Association of the Punjab, at the AlHamra in Lahore. February, 2012.
- Read a paper at the seminar organized by the AAP, at the AlHamra in Lahore. February, 2012.
- Conducted the seminar as stage-secretary, organized by the AAP, at the AlHamra in Lahore. February, 2012.

- Attended a workshop on "Art as a Therapeutic Force", conducted by Mr. AsimAmjad. 7th February, 2012.
- Visited Fountain House to interact with and assess the art-work of mentally impaired individuals. February, 2012.
- Contested and was successfully elected as Executive Member of the Academic Staff Association, University of the Punjab. February, 2012.
- Organized and arranged to send a group of more than 40 students from the College of Art & Design to GIK (Topi) to participate in the annual Art-Fest. February, 2011 & 2012.
- Participated in a group show on International Women's Day, organized by Punjab Council of the Arts. 8th March, 2012.
- Participated in a group show of Paintings, organized by Hamail Art Galleries, in Dubai, titled, "Art-Aviso". March, 2012.
- Judged a Flower Arrangement Competition, held by the Punjab Council of the Arts, at Lawrence Gardens, Lahore. March, 2012.
- Was chosen as a member of the Board of Governors, Pakistan National Council of the Arts, Islamabad. May, 2012.
- Contested and was successfully elected as Member Senate, University of the Punjab. June, 2012.
- Attended a lecture on 'Art & Contemporary Work' by MianIjaz-ul-Hassan, Chairperson, Artists' Association of the Punjab and National Artists' Association of Pakistan, at PURAF Art Gallery, Research Centre, College of Art & Design. May, 2012.
- Attended a seminar and exhibition in honor of Mrs. ZubedaJaved, at the College of Art & Design. June, 2012.
- Attended a condolence ceremony to pay tribute to the great Ustad Mehdi Hassan. 19th June, 2012.
- Attended a 'Dengue Awareness Week' campaign, as per the directive of the Chief Minister of the Punjab, at the College of Art & Design. August, 2012.
- Invited as subject specialist for conducting interviews for recruitment to the posts of Lecturer and Assistant Professor, by the Public Service Commission. August, 2012.
- Prepared and arranged the time-tables of: B.F.A. Part 1, 2, 3 and 4, as well as the timetable of M.F.A. for the subjects of Graphic Design and Illustration. June/July, 2011 & 2012.
- Attended an International Conference on 'Design & Emotion' in London, at Central Saint Martins. September, 2012.
- Conducted a presentation on 'Design & Emotion' for the entire faculty of the College of Art & Design, in the Anna Molka Art Gallery. October, 2012.
- Convenor of the Disciplinary Committee at the College of Art & Design.

- Convenor of the Library Committee at the College of Art & Design.
- Convenor and incharge of the Event Management Committee at the College of Art & Design.
- Member of the Semester Committee at the College of Art & Design.
- Executive Member of the Artists' Association of the Punjab, for more than 20 years.
- Treasurer of the Alumni Association of the College of Art & Design, university of the Punjab, Lahore.

Dr. Shahida Manzoor:

Seminars/Conferences:

- 2011: "Interpreting Modern Art & Modernity". Oriental College Magazine, Lahore: Punjab University Press, Vol. 86, No.1, Serial No.319, p.9-17.
 - Attended the following seminar and conference:
 - 2012: Attended a Seminar on "The Indus Religion & Its Beliefs" by Dr. Riffat Dar, Lahore College for Women University on 24th of Jan, 2012 at 11:00 a.m. in the Lecture Room of Research Centre, University College of Art & Design, Punjab University, Lahore.
- 2011: Attended an international conference on "Pakistan Challenges to Democracy, Governance and National Unity" organized by the Pakistan Study Centre & the Department of History, University of the Punjab, Lahore held at Law College Auditorium, University of the Punjab, Lahore on 24-25.10.2011.

Prof. Dr. Shaukat Mahmood

Book Published.

- Target Killings. Collection of 200 cartoons on political issues of national and international issues.
- WMDs: Weapons of Mass Deceit. A collection of over 180 cartoons exposing US invasion of Iraq.
- Art Movements in the West (in Urdu). A text book for art students.
- Fatahpur Sikri Rediscovered: Book published by International Islamic University Malaysia, Kualalampur.

Paper Read/Presented:

- Contributed and read a paper on The magic of Rectangular Kufi in Islamic Architecture during the international conference held at the College of Art & Design, Punjab University, Lahore December 11-13, 2012.

Articles Published:

- Taq-i Qisra, the Great Arch of Ctesiphon, Sunday Plus of Daily The Nation, October 23, 2011.
- Khirki Masjid, Delhi, Sunday Plus of Daily The Nation, November 27, 2011.
- The art of late Haneef Ramay, Sunday Plus of Daily The Nation, February 19, 2012.
- A derelict Mosque with a Unique Design, The Heritage Issue, 14, March 2012.
- Mughal love for Cypress trees, The Heritage Issue, 14, March 2012.
- Rohtas Fort is falling down, Sunday Plus of Daily The Nation, April 08, 2012.

- Tomb at Halicarnassus. One of the Seven Wonders of the World, Sunday Plus of Daily The Nation, April 15, 2012.
- Vanishing Architectural Heritage of Sindh-1, Sunday Plus of Daily The Nation, May 06, 2012.
- Vanishing Architectural Heritage of Sindh-2, Sunday Plus of Daily The Nation, June 17, 1012.
- A waning Architectural Heritage, Sunday Plus of Daily The Nation, July 29, 2012.
- Tomb of Halicarnassus, One of the Seven Wonders of Ancient World Heritage Issue 15.
- Vanishing Architectural Heritage of Sindh-3, Sunday Plus of Daily The Nation, August 26, 2012.
- About the Intriguing Raushandans, Sunday Plus of Daily The Nation, September 02, 2012.
- The Art of Penmanship, Sunday Plus of Daily The Nation, December 9, 2012.
- Vanishing Architectural Heritage of Sindh IV, Sunday Plus of Daily The Nation, December 16, 2012.
- How the Tea was born, Heritage, Islamabad, Issue 16, December 2012.
- Raushandans, Heritage, Islamabad, Issue 16, December 2012.
- Tomb at Halicarnassus, One of the Seven Wonders of the ancient World, Heritage, issue 15, Islamabad.
- Makli: No longer world's biggest Necropolis, Sunday Plus of Daily The Nation, February 17, 2013.
- As a Cartoonist under nom de plume of Maxim
- Professional cartoonist in various leading dailies, weeklies and monthlies of Pakistan
- Have given demonstration on cartoon drawing on Pakistan Television, Lahore station,

Mrs. Kahkashan Jafri

- 23.11.2011. Was invited as subject specialist for the interviews at Punjab Public Service Commission, for the post of Lecturer Fine Arts in the Punjab Higher Education Department.
- 7th January 2012, attended meeting of the Academic Committee of the National College of Arts Lahore. Deputed by the Principal.
- Monday 23rd - 26th January 2012, interviewed candidates for Needy Scholar Ships, based on merit.
- 2011, Prepared syllabus for BFA III and BFA IV Annual System for the Fine Arts (Painting, Sculpture, Graphic Arts) Students.
- In June 2012, organized a seminar and Exhibition in honor of Mrs. Zubeida Javed, in the College of Art & Design.
- Appointed as an internal paper setter for Masters of Art Examination 2012 in the Paper III, "Techniques of Painting" for the University of Gujrat.
- 7th August 2012 was invited as subject specialist for conducting interviews for recruitment for the posts of Lecturers and Assistant Professor by Federal Public Service Commission.
- In 2011, prepared curriculum for MFA 2 years Programme for the Fine Arts Section (Painting, Sculptures, Graphic Arts).

- 17th September, 2012, interviewed candidates for the post of Lecturers Conducted by Federal Public Service Commission.
- May 28th 2012 worked as a paper setter, assessor, and Examiner, for the University of Gujrat in BA and MA in the Subject of Fine Arts.
- 4th June 2012, organized students' participation in the 8th Annual Painting, Sculpture Exhibition at King Edward Medical University.
- May 29th 2012, Reviewed the scheme of studies with comments and suggestions for the BFA 4 years degree programme to be approved by the HEC, Curriculum of Fine Arts at the Lahore College University.
- Organized and guided students for participation in Anti drug Painting competition and Exhibition 20th May, 2012
- April 19th 2012 for the faculty, students and staff, of the College of Art & Design Punjab University, Organized an interactive talk by Mr. Naeem Zamindar, on "Art of Living" programme in Pakistan.
- March 18th 2012 organized a painting and Calligraphy competition for SACH organization.
- Jan, 2012. Organized the participation of students in 10th Emerging Talent Exhibition at VM Art Gallery, Karachi.
- Feb, 2012, organized the opening of "Gosha e Behzad o Maani" at the College of Art & Design.
- 1st March 2012 organized to send about 30 students from our College for competition participation in ten different categories at the 9th Naqsh All Pakistan Art Festival.
- Preparation of time tables for MA I,II, MFA, BFA I,II,III,IV Fine Arts (Painting, Sculpture, Graphic Arts) for both the semesters.
- In 2012, Attended series of Lectures by different scholars on "Iqbal Shanasi" at Dabistaan-e-Iqbal.
- In 2011, Attended series of Lecturer by Mr. Ahmad Javed on Mir Taqi Mir's Poetry.
- Attended a lecture organized by Mani Shankar Aiyar, organized by Iqbal Ahmed Foundation.
- Attended various lectures organized by the Faiz Foundation on politics, Art, literature, Performing Arts, Film Making.
- At Halqa-e-Danish, Lums, Attended series of Lecturers on Urdu Literature.
- Executive members Punjab Artists Association since 20 years.
- Member Federal Public Service Commission as subject specialist.

Mr. Isar Kamran

Articles Published:

- The focus of the article was to highlight the interactional space in the cultural heritage arena to perceive on the human eye level. Article was published in designer style magazine in June, 2012.

- Attended the IAP's Annual Convention on architecture and materials held from June 15, 2012 to June 17, 2012 at Expo Centre, Johar Town, Lahore, titled "Architecture as an Expression of Poetic Spaces".
- Attended a Conference conducted by "Trust for History, Art and Architecture Pakistan" in 2012 over "Life in Small Towns" at Gulberg, Lahore.
- For the purpose to explore the new materials for buildings and sanitary fixtures manufactured by Master Tiles Industry.
- Construction of Gosha-e- Bezaad-o-Mani a interactional space for students in CAD, Punjab University, Lahore for students social activities.
- Designing and consultancy for the new building of Islamic Department in New Campus, Punjab University, Lahore.

Intellectual Achievements :

- The amazing blending of Culture .The focus of the article was to highlight the interactional space in the cultural heritage arena to perceive on the human eye level. Article was published in designer style magazine in June, 2012.

Published Social Activities :

- IAP Lahore Annual Convention 2012 Attended the IAP's Annual Convention on architecture and materials held from June 15, 2012 to June 17, 2012 at Expo Centre, Johar Town, Lahore, titled "Architecture as an Expression of Poetic Spaces. "
- THAAP Conference Conference conducted by "Trust for History, Art and Architecture Pakistan" in 2012 over "Life in Small Towns" at Gulberg, Lahore.

Industrial Linkage :

- Master Tiles & Ceramic Industries Limited, Gujranwala.For the purpose to explore the new materials for buildings and sanitary fixtures manufactured by Master Tiles Industry.

Professional Work:

- Gosha-e- Bezaad-o-Mani Construction of Gosha-e- Bezaad-o-Mani a interactional space for students in CAD, Punjab University, Lahore for students social activities. Completed in 18 January, 2012.
- Islamic Department,Punjab University, New Campus, Lahore. Designing and consultancy for the new building of Islamic Department in New Campus, Punjab University, Lahore, Completed in 2012 .

Habib Alam

- Participated in a Rally of College of Art & Design, University of the Punjab against NATO attack at Shams Air Base 30-11-2011,
- Attended a lecture of Vice Chancellor Punjab University on Pakistan &Global Affairs, at senate hall old campus 12-12-2011.

- Attended the reference of Mrs. Anwar Afzal at Anna Molka Art Gallery College of Art & Design, University of the Punjab 05-01-2012.
- Attended Opening of "Gosha e Behzad o Mani" by Dr. Mujahid Kamran Vice Chancellor University of the Punjab and Prof. Khalid Iqbal 18-01-2012.
- Member of Board of Studies and attended a meeting at College of Art & Design, University of the Punjab on 27th march 2012.
- Attended a lecture of Prof. Dr. Neelam Naz from UET on Naulakha Bazar 13-04-2012. I have also attended a lecture of Mr. Naeem Zamindar on "Art of Living Programme " 19-04-2012.
- Attended a seminar and tribute to Prof. Zubaida Javed June 2012.
- Attended a meeting with Principal and visit Brick Kiln to empowerment the Brick Kiln workers with ILO, (international Labour organization) September, 2012.

Sumera Jawad

- Research Publication titled Rise and Fall of cinema on McLeod Road, published in a book titled Portrait of Lahore, Thaap 2012, printed by Topical publications.
- Displayed a two person show Sumera Jawad and Faraz Ahmed at Nomad art Gallery, Islamabad. Pakistan.
- Participation in annual National show by AAP (Artist Association of Punjab).
- Participated in International Woman Day Paintings show at Alhamra art Gallery, March, 2012
- Participated in a travelling show organized by Punjab arts Council.
- Participated in an International conference.

Thaap Conference 2011

- PORTRAIT OF LAHORE: CAPITAL CITY OF THE PUNJAB, Organized by Thaap Organization.
- Attended a two days International conference organized by Thaap and attended a series of lectures. THAAP: Trust for History Arts and Architecture Pakistan
- Attended a lecture by Dr. Saif ur Rehman Dar at Lahore Museum, April, 2012.
- Attended a series of three day lectures at Lahore College Women University, Lahore
- Attended a lecture on Art and Philosophy, by Dr. Zafar Cheema, September, 2012, LCWC, Lahore
- Delivered a lecture on Methodology of Studio Based Research at LCWU (Lahore College Women University, Lahore), 20th September, 2012.

Students Activities/ Events

- Organized a book launch ceremony Masjid Wazir Khan Rediscovered by Mamoon Khan, December, 2011
- Took part in organizing the opening ceremony of Gosha e Behzad o Mani, 24th Jan, 2012
- Took part in organizing the function, A Tribute to Zubeda Javed, 5th June, 2012.

Linkage with Industry/ Organizations

- A regular participant of Nomad Centre & Art Gallery and UN WOMEN campaign.
- Participated in International Women Day Exhibition, March, 2012 and my work is published in their annual calendar.

Articles Published:

- I have written few articles in famous news papers.

Beenish Tahir**List of workshops, lectures etc**

- Faculty orientation program 2012, 3rd to 6th July 8, 2012 Certificate of participation at the Institute of Administrative Science (IAS).
- Attended workshop at PUCAD on "A tribute to Dr.ZubaidaJaved". June, 5, 2012.
- Attended seminar at PUCAD Research Deptt on "A morphological study of Nulakha Bazar" by Dr.NeelumNaz, UET, Apr, 13, 2012.
- Attended workshop at the TET Punjab University on "Importance of Global Textile Standards and Compliance Requirements" April, 5, 2012.
- Attended workshop at UMT on "Qualitative Data Analysis through Software NVIVO". Jan, 28, 2012.
- Attended seminar at PUCAD Research Dep't on "Religious Belief's of the Indus People " by Riffat Dar, LCW Jan, 24, 2012.
- Attended workshop attended on "Literature Review & Managing References Using Endnote® Software". Mar, 31 - Apr 01, 2011.
- Attended the event Gusha-e Bezaad-u Mani on Feb 2012 at Punjab University (College of Arts & Design Department).

List of Projects

- April, 2011, redesigned the curriculum of 2 year Textile Design Master Program.
- Worked as Thesis Supervisor for BFA 4th year degree program at Punjab university (college of art and design).
- Worked as Thesis Supervisor for MFA 5th year degree program at Punjab university (college of art and design).

Invitation to different Universities:

- Invited as Chief Judge for a Poster/Art Competition on Environmental day by Govt. post Graduate Islamia College for Women, May 31-2012.
- Invited as a Juror at Sarghoda University for BA Fine Art (Textile) Thesis on Sep, 12-2011.

Farewell/Exhibitions:

- Attended students Thesis exhibition of BFA final year on 28 April to 1 May 2012 at Punjab University (College of Arts & Design Department).

- Attended student's farewell event on March 2012.

Tassadduq Amin

During Session 2011-2012, participated and duties performed.

- Attended a lecture by Dr. Safia Farooq regarding her Ph.D dated November 20, 2011.
- Attended the opening ceremony of solo exhibition at drawing room Art gallery dated November 19, 2011.
- Participated a rally of college of Art & Design, against NATO attack at shams Air base dated November 30, 2011.
- Attend a lecture by Vice-Chancellor on Pakistan & global affairs at Senate Hall old campus dated December 12, 2011.
- Attended a reference on Mrs. Anwar Afzal at Anna-Molka Art gallery January 05, 2011.
- Attended the opening ceremony of "Gosha e Behzad o Mani" by Vice Chancellor at College of Art & Design on January 18, 2012.
- Attended a lecture by Prof. Dr. Neelam Naz from UET on Noulakha Bazar April 13, 2012.
- Attended a lecture by Mr. Naeem Zamindar on, Art of living programs April 19, 2012.
- Attended a seminar and Tribute to Prof. Zubida JAved on June 2012.
- Attended a laptop Distribution Ceremony at University of the Punjab June 2012.
- For Book Fair 2011 in New Campus, I performed the duty of guiding the participants I the Book Fair.

Syed Farjood Ailya Rizvi

- 22nd November, 2011 IT seminar attended from Microsoft at Punjab University venue Razi hall at Thursday.
- 28th November, 2011 Monday digital image make up for prepress workshop for BFA vii 7th semester class teacher sir Israr Chishti communication design.
- 8th December, 2011 Thursday Poster competition marking for Directorate of Women Development, Punjab.
- 11th December, 2011 Thursday Poster Design for CAD PU M.S Art History programe.
- 9th January, 2012 Monday ticket Design "gosha-e-behzadomani" for CAD PU.
- 18th January, 2012 Tuesday Event "goshaebehzadomani" digital image production in CAD PU.
- 20th January, 2012 one day tour to Katas wth 1st year semester -I for photography
- 9th , 2012 Attended the workshop for research at naulakha bazar by Dr. Shaukat mehmood.
- 16th , 2012 Seminar "Art of living" by Naeem Zamendar at CAD, PU.
- 2nd May, 2012 9:30 am Chief Minister house 1 billion endowment Fund ceremony participated.
- 4th Jun, 2012 back drop design for tribute to eminent painter Zubeda Javed assigned by principle Rahat.

Azmat Ali

- Solo exhibition "SIRAAT-E-MUSTAQUEEM" Canvas gallery, Karachi.
- Preview Solo Exhibition "SIRAAT-E-MUSTAQUEEM" Drawing Room Gallery Lhr.
- Participated in group show "The body in 6x3" at Koel Gallery, Khi.
- Participated in FAIZ ART PRIZE, SADAQUAIN Gallery, Khi.
- Participated "Tribute to Usman Ghani" at IVS Gallery, Khi.
- Participated "ICON" at Alhamra Gallery, Lahore.
- "SIRAAT-E-MUSTAQUEEM" Catalog printed by Topical Printers Text by Prof. Salima Hashmi & Dr. Khalid Zaheer.
- "Form and Feeling" by Salwat Ali, Dawn Gallery, January 23.
- "Ali's Wonderland" by Quddus Mirza January 30.
- "Let a thousand flowers bloom" Review, Pakistan ART Review OCT. 28.
- "Review Let a thousand flower bloom" The express Tribune Jan. 12.
- Designed the new syllabus for MFA Painting for 2 years programme.
- Supervisor & Organized a thesis of BFA final.
- Attended a lecturer by Dr. Safia Farooq regarding her Ph.D 20.11.2011.
- Attended a dinner by the Principal regarding newly appointed faculty members 30.11.2011.
- Participated a rally of College of Art & Design, against NATO attack at Shams Airbase 30.11.2011.
- Attended a lecture by Vice-Chancellor on Pakistan & Global affairs at Senate Hall, old campus 12.12.2011.
- Curated a exhibition & reference Mrs. Anwar Afzal at Anna Molka Gallery 05.01.2012.
- Attended an opening ceremony of "GOSHA-E-BEHZAD-O-MANI" by Vice-Chancellor at College of Art & Design 18.01.2012.
- Attended a lecture by Mr. Naeem Zaminadar , Art of living programme 19.04.2012.
- Attended a seminar and tribute to Prof. Zuhaib Javed, June, 2012.
- Attended a laptop distribution ceremony as organizer at University of the Punjab June 2012.
- Curated a group show of students from 2001 to 2010 at Anna Molka Gallery, Lahore.
- Curated a group show for a delegation at Anna Molka Gallery.

Mughess Riaz

3 Oct 2011	Group Exhibition	Online Pakistan Rising Charity Art Auction, London, UK.
18 Oct 2011	Solo Exhibition	Solo exhibition of painting at Canvas Art Gallery, Karachi,
Jan 2012	Group Exhibition	Through their eyes "18 Artist Group Show" at Art Asia Gallery, DHA Lahore.
Feb 2012	Participation Exhibition	26 th Annual Exhibition of Painting Sculpture Graphic Arts, Artist Association of Punjab, at Al-Hammra Art Galleries, Lahore.

5 Mar 2012		Conducted MFA Painting thesis to 18 Students at College of Art & Design, Punjab University, Lahore.
31 Mar 2012	Participation Exhibition	"66 statements" at Gallery 6, Art Gallery Islamabad.
11 Apr 2012	Group Exhibition	Painting Exhibition "Band Baja Barat" at IVS Gallery Karachi.
24 May 2012	Group Exhibition	Artist Live Auction Items "Concern Worldwide Summer Party" London U.K.
Jun 2012	Group Exhibition	"Summer Art Show" at Nomad At Gallery, Islamabad.

Khalifa Ahmed Muiz

- According to HEC criteria for Architectural studio practice the projects done and other professional activates of outstanding and substantial level are also considered as " Research & Publication ". In this regard , following projects were done during the period mentioned above i.e 01-10-2011 to 30-09-2012.
 - Residence renovation plan for M.r Ahmed , Lahore.
 - Architectural conservation plan for Lahori Gate, Lahore.
 - Rehabilitation plan for flood affectless of Shah Wali Basti, Muzaffer Garh.
 - Architectural conservation plan for Bhati Gate, Lahore.
 - House design for Mr. Sajid Qayyum, Lahore
 - House design for Mr. Nouman Sajid , Lahore.

Co- Curricular Activities

- National workshop on " Report Writing " at " National centre for Rural Development " Islamabad.
- Thaap series Lectures. " Life in small Towns"
- International conference on " Life in small Towns" held under thaap.
- IAPEX 2012 held under IAP Lahore Chapter

Student Activities (Sports)

- Participated in inter college Badminton championship.
- Participated in inter college Football championship.

Tours

- Study tour to Naran to study planning on contours & indigenous Architectural Techniques.
- Study tour to Khanaspur.
- One day tour to katas to study katas Raj Temple..

College Activities

- Attended 23rd March celebrations.
- Attended Mehfile-e-Milad on 12th Rabi-ul-Awwal

Mr. Zeeshan Ashraf

- Attended the THAAP(Trust for History, Art & Architecture, Pakistan) Conference 2011 at Lahore.

- Attended the IAP's Annual Convention on Architecture and material held from June 15th 2012 to June 17th 2012 at Expo Center Johar Town, Lahore. Titled "Architecture as an Expression of Poetic Spaces"
- Participated as faculty member at annual Book Fair on 15th to 17th March 2012 at University of the Punjab Quaid-e-Azam Campus, Lahore.
- Evaluate students work in juries/presentation held in the following institutions:
 - COMSATS, Lahore.
 - University of South Asia, Lahore.
- Designed thesis catalog for the year 2012 Architecture Department.

Student Activities (Sports):

- Participated in inter college Badminton championship.
- Participated in inter college Football championship.

Tours:

- Study tour to Naran to study planning on contours & indigenous Architectural Techniques.
- Study tour to Khanaspur.
- One day tour to katas study katas Raj Temple.

College Activities:

- Attended 23rd March celebrations.
- Attended Mehfile-e-Milad on 12th Rabi-ul-Awwal.

Ms.Hina Hasnain

Research Achievements

Sr. No.	Title	Description	Status
1.	Research conducted over the title "Analytical study of Management system for Public Sector Development Project"	To identify the constraints, bottlenecks shortcomings of Prevailing Management system for Public Sector Development Projects and to identify the factors effecting project duration and cost of Public Sector development Projects. To equip the planners, architects and managers with the analytical skills for scrutiny of development.	Completed/Sent for Approval

Co Curricular Activities

Sr. No.	Title	Description	Status
1.	IAP Lahore Annual Convention 2012	Attended the IAP's Annual Convention on architecture and materials held from June 15 th , 2012 to June 17 th , 2012 at Expo Center, Johar Town, Lahore, titled "Architecture as an Expression of Poetic Spaces"	Attended

Sr. No.	Title	Description	Status
2.	Lecture Attended on Research Methodology	Lecture on "Research Methodology in Architectural Thesis" in National College of Arts in February, 2012 by Mr. Tariq Khalidi.	Attended
3.	THAAP conference 2012	Conference conducted by "Trust for History, Art and Architecture, Pakistan" in 2012 over "Life in Small Towns" at Gulberg, Lahore	Attended
4.	Lecture Attended on Urban Design	Lecture on "Urban Regeneration" in Architecture Department in April, 2012 by Mr. Khalid Bajwa.	Attended
5.	Lecture Attended on Building Services	Lecture on "Security Systems, Fire Alarming Controlling Panels" in Architecture Department in 2012 by Mr. Tanveer Sheik, CEO, ESafe.	Attended

Linkages with Industry

Sr. No.	Title	Description	Status
1.	Master Tiles & Ceramic Industries Limited, Gujranwala	For the purpose to explore the new materials for buildings and sanitary fixtures manufactured by Master Tiles Industry	Visits

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

The following were organized by the College of Art & Design

- Organized a reference in memory of late M. F. Hussain, a famous Indian Poet held on Monday 27th June, 2011.
- Organized a seminar in honour of Prof. Anna Molka Ahmad on 7th June, 2011.

- **Research Journals**

- Published the research journal "Jamal"

FACULTY OF BEHAVIORAL & SOCIAL SCIENCES

DEPARTMENT OF GENDER STUDIES

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

- Department of Gender Studies hosted a seminar on "Legal and Social Rights of Refugee Women within Legal Framework of Pakistan", March 2012
- Department of Gender Studies hosted a seminar on "The Participation of Women in Politics: Participatory and Experience Sharing Approach" June 2012.
- Department of Gender Studies hosted a seminar on "Gender Based Violence : Issues and Challenges", 28th December 2011

- Department of Gender Studies hosted a seminar on “Syed Hajver Tasawuf Seminar” 11th January 2012
- Department of Gender Studies hosted a seminar on “Family Dispute and Counseling” 22nd February 2012
- Department of Gender Studies hosted a workshop on Capacity building of Faculty : Qualitative Research with N Vivo Software, 21-28 April 2012
- Department of Gender Studies hosted a Workshop on Capacity building of Faculty : Quantitative Analysis with SPSS, May 2012
- Department of Gender Studies hosted a seminar on “Awareness raising seminar on New laws concerning women, 17th May 2012
- Department of Gender Studies hosted a seminar on “Early forced marriages, 14th Feb. 2012
- Department of Gender Studies hosted a seminar on “Awareness raising on Protection of women against sexual harassment at workplace Act 8th, June 2012
- **Research Journals**
 - Started in 2006. Working to bring it in streamline. The back issues will be published in this year.

DEPARTMENT OF POLITICAL SCIENCE

● **Projects (i) Completed**

Prof. Dr. Umbreen Javaid completed two research projects sponsored / funded by Punjab University, during 2011 – 2012 titled:

- “Politics Of Religious Extremism And Terrorism In Pakistan”
- “Dynamics of demand for Bahawalpur Province: Implications for the on-going societal integration and federation of Pakistan”

Dr. Iram Khalid, Associate Professor completed one research project sponsored / funded by Punjab University, during 2011-2012, titled

- “Socio-religious fragmentation in Pakistan”, 2011-2012

Rana Eijaz Ahmad, Assistant Professor, completed one research project sponsored / funded by Punjab University, during 2011-2012, titled

- “Democracy: A form of Government or a Human Instinct?”

Rehana Saeed Hashmi, Assistant Professor, completed one research project sponsored / funded by Punjab University, during 2011-2012, titled

- “Issue of Governance and Nation building in Pakistan”

(ii) Newly Launched

- Prof. Dr. Umbreen Javaid
- Dr. Iram Khalid, Associate Professor

- **Publications: Books**

Prof. Dr. Umbreen Javaid

- *“Academic Research, Writing & Publishing a Practical Handbook for PhD Students and Academic Researchers”*. Muhammad Ahsan, Muhammad Munir, Classic Publishers, Lahore – Pakistan – 2012.
- *“Pakistan Fights Extremism and Terrorism”* Vanguard Publication, Lahore – Pakistan 2012.
- *“Peace Building in South Asia: Limitations and Prospects”* Punjab University Press, Lahore – Pakistan 2012.

Dr. Iram Khalid, Associate Professor:

- *Pakistan Foreign Policy Evolution, Development and Strategies*. 2012, Edited by Iram Khalid, Publisher: Kitab Vadee, Lahore.
- *Crisis Decision Making, The Study of Selected Conflicts Between India and Pakistan*, 2011, Publisher: VDM Publishing House Ltd. 17, Meldrum Str. | Beau- Bassin | Mauritius.

Chapters in Books

- Will Enhanced Powers of Judiciary stop Future Military Takeover in Pakistan. In: Eighteenth Amendment Revisited, IPRI, 2012, pp:88-105
- Pakistan – India Relations, In: Pakistan Foreign Policy. Lahore: Peace Publications, 2012, pp:49-79.

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

Prof. Dr. Umbreen Javaid

- Attended an International Conference on “Pakistan and the Muslim World” at Academy of International Studies, Jamia Millia Islamia University, New Delhi-India and presented a paper titled “Militant Extremism in Pakistan: Genesis and Consequences” on 15 and 16 March, 2012.
- Attended an International Conference on “Pakistan challenges to democracy, governance and national unity” at Department of History, and presented a paper titled “Extremism: A major security concern of Pakistan” on October 24-25, 2011.
- Organized and attended a seminar on “Power Dynamics in the Indian Ocean”, Mr. Naveed Ahmad Cdr delivered the lecture on March 28, 2012.
- Organized and participated in a National Annual Conference on “Pakistan’s Internal and External Security: Challenges and Options” and presented a paper on “Mounting Militant Extremism and Pakistan’s Security Concerns” on March 8, 2012.
- Organized and attended a seminar titled “State of Institutions of Pakistan” on February 18, 2012, Lecture delivered by Dr. Anwar H. Syed, Professor Emeritus. USA.
- Organized and attended a seminar in collaboration with Pakistan Naval War College titled “PNWC-PU Joint Security Seminar”, on February 14, 2012.

- Organized and attended a seminar on “Crises of Muslim Ummah and its Resolution”, Mr. Aneeq Ahmad delivered the lecture, Feb 08, 2012.
- Organized and attended a seminar on “ASEAN – Pakistan Relations”, Dr. Hariyadi Wirawan delivered the lecture. Jan. 25 2012.
- Organized and attended a seminar on “Are we a nation?, Nationalism & Security”, Mr. Naveed Ilahi delivered the lecture. Jan. 12, 2012.
- Organized and attended a seminar on “Sir Creek Issue”, Mr. Naveed Ahmad Cdr delivered the lecture. Jan. 11, 2012.
- Organized and attended a seminar on “Importance of Islam to the existence of Pakistan”, Orya Maqbool Jan delivered the lecture. Jan. 5, 2012.
- Organized and attended a seminar on “Maritime: Overview of Pakistan”, Mr. Naveed Ahmad Cdr delivered the lecture. Dec. 1, 2011.
- Organized and attended a seminar on “Pakistan – US imbroglio: challenges and opportunities’ Lt. Gen. (R) Hameed Gul delivered the lecture. Oct. 24, 2011.

Dr. Iram Khalid, Associate Professor

- March 8, 2012, National Conference on Pakistan’s Internal and External Security: Challenges and Options and presented a paper on “Extended Security Threats to Pakistan’s National Assimilation”.
- January 26, 2012, International Workshop on Nuclear Security Issues in South Asia at LUMS, Paper presented: Nuclear threat propaganda: Pakistan’s case.
- October 24-25, 2011, International Conference on Pakistan challenges to democracy, governance and national unity at Department of History, and presented a paper on Socio-Religious Fragmentation: A threat to Pakistan’s National Integration”.
- Attended a seminar on “Turkey: Religion, Politics and Society”, Mr. Farrukh Sohail Goindi, Renowned Scholar, delivered the lecture on April 04, 2012.
- Attended a seminar on “Power Dynamics in the Indian Ocean”, Mr. Naveed Ahmad Cdr delivered the lecture on March 28, 2012.
- Attended a seminar titled “State of Institutions of Pakistan” on February 18, 2012, Lecture delivered by Dr. Anwar H. Syed, Professor Emeritus. USA.
- Attended a seminar in collaboration with Pakistan Naval War College titled “PNWC-PU Joint Security Seminar”, on February 14, 2012.
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- Attended a seminar on “Are we a nation?, Nationalism & Security”, Mr. Naveed Ilahi delivered the lecture. Jan. 12, 2012.
- Attended a seminar on “Sir Creek Issue”, Mr. Naveed Ahmad Cdr delivered the lecture. Jan. 11, 2012.
- Attended a seminar on “Importance of Islam to the existence of Pakistan”, Orya Maqbool Jan delivered the lecture. Jan. 5, 2012.
- Attended a seminar on “Maritime: Overview of Pakistan”, Mr. Naveed Ahmad Cdr delivered the lecture. Dec. 1, 2011.

Rana Eijaz Ahmad, Assistant Professor

- Presented a paper titled as Morality: The Solitary Heal of Hate in the International Society for Utilitarian Studies (ISUS) 12th International Conference ISUS XII in the New York University New York, U.S.A. in August 8-11, 2012.
- Organized and attended a seminar on “Turkey: Religion, Politics and Society”, Mr. Farrukh Sohail Goindi, Renowned Scholar, delivered the lecture on April 04, 2012.
- Organized and attended a seminar on “Power Dynamics in the Indian Ocean”, Mr. Naveed Ahmad Cdr delivered the lecture on March 28, 2012.
- Organized and participated in a National Annual Conference on “Pakistan’s Internal and External Security: Challenges and Options” and presented a paper on “Mounting Militant Extremism and Pakistan’s Security Concerns” on March 8, 2012.
- Organized and attended a seminar titled “State of Institutions of Pakistan” on February 18, 2012, Lecture delivered by Dr. Anwar H. Syed, Professor Emeritus. USA.
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- Organized and attended a seminar on “Are we a nation?, Nationalism & Security”, Mr. Naveed Ilahi delivered the lecture. Jan. 12, 2012.
- Organized and attended a seminar on “Sir Creek Issue”, Mr. Naveed Ahmad Cdr delivered the lecture. Jan. 11, 2012.
- Organized and attended a seminar on “Importance of Islam to the existence of Pakistan”, Orya Maqbool Jan delivered the lecture. Jan. 5, 2012.
- Organized and attended a seminar on “Maritime: Overview of Pakistan”, Mr. Naveed Ahmad Cdr delivered the lecture. Dec. 1, 2011.

Rehana Saeed Hashmi, Assistant Professor

- Attended a workshop on “Elections in Pakistan” by Dr. M. Waseem, organized by Oxford , September, 2012
- Completed, International visitors leadership Program on US Foreign Policy From June 11 – 29, 2012
- Participated in round table discussion about “US System of government, with emphasis on separation of power and authority granted to the State”. Organized b y Mr. Akram Elias in Washington, D.C. June 11, 2012
- Visited Brookings Institute, and participated in a discussion with Ambassador Teresita Schaffer, about “US relaxation with South Asia, on June 12, 2012 at Washington D.C.
- Visited United States, Department of State and meeting with the Bureau of South and Central Asian Affairs, about “Current events and issues of interest to US and Pakistan on June 12, 2012 at Washington D.C.
- Visited, United State, Department of Defense, The Pentagon, and meeting with Captain John F. Kirby and Commander William H. speaks, about “US defense Priorities regarding South Asia”, on June 13, 2012 at Washington D.C.
- Visited, United States, Senate: Committee on Foreign Relations and meeting with Senator Robert Casey’s legislative Assistant Mr. Denial Murphy about, the Congressional Role in the Formation of US Foreign Policy, on June 14, 2012 at Washington D.C.
- Visited, Maryland, Office of Secretary of State, Maryland State House and General Assembly Chambers and meeting with Mr. Rajan Natarajan, Deputy Secretary of State, External Affair about “The role of the Maryland State government in promoting international relations and partnership” on June 14, 2014 at Maryland.
- Visited Centre for Strategic and International Studies and meeting with Director Mr. Arnaud de Borchgrave and participated in a round table discussion about “The impact of national security concerns on US policy towards South Asia and presented a paper about “The Consequences of US massive involvement in Pakistan on June 15, 2012 at Washington D.C.
- Visited John Hopkins University, School of Advanced International Studies (SAIS) and presented a presentation about “Current events affecting US policy towards Pakistan”. On June 15, 2012 at Washington D.C.
- Visited, the Milken Institute, California and had round table discussion about “The role of economic think tanks in advising policy makers and advancing the dialogue on the global economy”, on June 18, 2012 at Los Angeles, California.
- Visited Rand, Research Institute, and participated in a Workshop about “Research and Analysis of Security issues of interest to US and Pakistan” on June 18, 2012 at California

- Meeting with Director, Burckley Institute of International Relations at University of California, Los Angeles, and participated in a workshop on “International Conflict Resolution Mechanism: The impact of Diplomacy”, on June 19, 2012 at UCLA
- Visited Utah State Senate/legislature and meeting with elected officials. The discussion was based on the influence of the state, issues of national politics, on June 24, 2012 at Salt Lake City Utah.
- Attended a workshop of Utah Refugee Services Office on state-level programs designed to increase the quality of life for refugees and assist in their integration, on June 24, 2012 at Salt Lake City.
- Attended a workshop in University of Utah and Global Health Initiative: Role of State, on June 25, 2012
- Attended a discussion organized by US Mission to the United Nations (USUN) about the “The Role of the USUN in representing American interests to the Global Community, on June 27, 2012 at New York
- Participated in a round table discussion organized by Wall Street Journal New York about US Foreign Policy towards Pakistan with Bret Stephens the D/Editor – International Editorial / Journal Page, on June 28, 2012 at New York.
- Participated and given presentation to the co-founder SAJA Dr. Sreenivas in Columbia University, New York, about “The role of responsible Media in the Internal Politics”, on June 28, 2012, at New York
- Attended and participated in a workshop of United Nations Counter Terrorism Committee, on “The role of the Committee in identifying terrorism, support new works and preventing attacks”, on June 29, 2012 at New York.

Dr. Gulshan Majeed, Assistant Professor

- Participated in an International Workshop on “Strategic Issues: Pakistan, South Asia and Beyond” at LUMS, organized by LUMS-Stimson Center-Carnegie Endowment for International Peace on January 14, 2012.
- Attended a seminar on “Turkey: Religion, Politics and Society”, Mr. Farrukh Sohail Goindi, Renowned Scholar, delivered the lecture on April 04, 2012.
- Attended a seminar on “Power Dynamics in the Indian Ocean”, Mr. Naveed Ahmad Cdr. delivered the lecture on March 28, 2012.
- Participated in a National Annual Conference on “Pakistan’s Internal and External Security: Challenges and Options” and presented a paper on “Conflict in Balochistan” on March 8, 2012.
- Attended a seminar titled “State of Institutions of Pakistan” on February 18, 2012, Lecture delivered by Dr. Anwar H. Syed, Professor Emeritus. USA.
- Attended a seminar in collaboration with Pakistan Naval War College titled “PNWC-PU Joint Security Seminar”, on February 14, 2012.

- Attended a seminar on “Crises of Muslim Ummah and its Resolution”, Mr. Aneeq Ahmad delivered the lecture, Feb 08, 2012.
- Attended a seminar on “ASEAN – Pakistan Relations”, Dr. Hariyadi Wirawan delivered the lecture. Jan. 25 2012.
- Attended a seminar on “Are we a Nation? Nationalism & Security”, Mr. Naveed Ilahi delivered the lecture. Jan. 12, 2012.
- Attended a seminar on “Sir Creek Issue”, Mr. Naveed Ahmad Cdr. delivered the lecture. Jan. 11, 2012.
- Attended a seminar on “Importance of Islam to the existence of Pakistan”, Orya Maqbool Jan delivered the lecture. Jan. 5, 2012.

Dr. Mubeen Adnan, Assistant Professor

- Paper presented on “Areas of engagement and security threats between India and Pakistan” in the National Conference on Pakistan’s internal and external security: challenges and options, March 8 at Department of Political Science 2012.

● **Research Journals**

Prof. Dr. Umbreen Javaid

Research Article(s)

- ‘Balochistan: From Strategic Significance to US Involvement’ Prof. Dr. Saleem Mazhar, Dr. Umbreen Javaid and Naheed S. Goraya, *Journal of Political Studies*, Vol. 19, Issue 1, Summer 2012, pp: 113-127, (HEC recognized category “Z”).
- ‘Post Salala Pak-US Relations: Revisiting Terms of Engagement’ Dr. Umbreen Javaid and Asim Hameed Butt, *Central Asia*, Vol. 68, Fall 2011, (HEC recognized category “Y”).
- ‘Contending Ethnic Identities: An Issue of Pakistan’s Internal Security (A Case Study of Karachi)’ Dr. Umbreen Javaid and Rehana Saeed Hashmi, *Journal of Political Studies*, Vol. 19, Issue 1, Summer 2012, pp: 57-77 (HEC recognized category “Y”).
- ‘Socio-Political Status of Muslims in India: Post Partition’ Dr. Umbreen Javaid and Malik Nisar Ahmed, *Journal of South Asian Studies*, University of the Punjab, Lahore, Vol. Vol. 27, No. 1, January-June, 2012, pp: 7-19 , (HEC recognized category “Y”).
- ‘Rife Manifestation of Gender Segregation in Indian Society: Evidence from Textbooks’ Dr. Umbreen Javaid, Sonia Omer and Sadia Jabeen, *Journal of South Asian Studies*, University of the Punjab, Lahore, Vol. 27, No. 1, January-June, 2012, pp: 21-34, (HEC recognized category “Y”).
- ‘Partnership in War on Terror and mounting extremism in Pakistan’ *Journal of South Asian Studies*, University of the Punjab, Lahore, Vol. 26, No.2, Jul-December, 2011 pp: 227-239, (HEC recognized category “Y”).
- ‘FATA a Breeding Ground of Extremism in Pakistan’, *Journal of Political Studies*, Vol. 18 Issue 2, Winter 2011, pp. 173-186, (HEC recognized category “Y”).

Dr. Iram Khalid, Associate Professor

- “Present and Future Conflict Environment; Challenges for Pakistan”. Journal of Political Studies, Punjab University Vol. 19, No.1, 2012
- “Brasstacks Crisis 1986-87”. Journal of South Asian Studies, Vol. 27 No. 1, 2012
- “The New Great Game in Afghanistan: Role of India (A Pakistani perspective)”, Journal of South Asian Studies, Punjab Univ. Lhr. Vol. 26, No.2, 2011
- “Socio-Religious Fragmentation: A Challenge to Pakistan's National Integration”, Journal of Research Society of Pakistan, Punjab Univ. Lhr. Vol. 48, No.2, 2011.
- “Afghanistan: Quest for Peace and Stability (Historical Context)”, Journal of Political Studies, Punjab University, Vol. 18, No.2, 2011

Rana Eijaz Ahmad, Assistant Professor

- Rana Eijaz Ahmad, Peace as a Global Language in the Twenty First Century, Published in European Journal of Social Sciences Vol. 34 No 1, September, 2012, pp.138-140.
- Rana Eijaz Ahmad, The U.S. and the Muslim World: Engagements, published in *American International Journal of Contemporary Research* Vol. 2 No. 7; July 2012.
- Rana Eijaz Ahmad, The U.S. Engagement in Afghanistan: Post 9/11 Scenario published in European Journal of Business and Social Sciences, Vol. 1, No. 3, pp. 53 - 60, June 2012.
- Abida Eijaz and Rana Eijaz Ahmad, Electronic Colonialism: Out sourcing as Discontent of Media Globalization published in the International Journal of Business and Social Science United States Vol. 2 No. 15; December 2011.
- Rana Eijaz Ahmad and Abida Eijaz, Modern Sovereign State System is Under Cloud in the South Asian Studies Vol. 26, No. 2, 2011.
- Abida Eijaz and Rana Eijaz Ahmad, Discourses of Feminism in the Perspective of Allama Iqbal and the West published in Canadian Social Science Vol. 7, No. 5, 2011, pp. 190-197.
- Rana Eijaz Ahmad and Abida Eijaz, *Global Economy: New Actors and New Perspectives* published in Research Journal of International Studies United Kingdom- Issue 21 October, 2011.
- Abida Eijaz and Rana Eijaz Ahmad, *Challenges of Media Globalization for Developing Countries* Published in International Journal of Business and Social Science, United States Vol. 2 No. 18; October 2011.

Rehana Saeed Hashmi, Assistant Professor

- Contending Ethnic Identities: An Issue to Pakistan's Internal Security (The case of Karachi), Journal of Political Studies, Issue XIX, No. 1, Summer 2012, pp: 57-78.

Dr. Mubeen Adnan, Assistant Professor

- “U.S hegemony: A gap between U.S and the Muslim world” in an International Journal of South Asian Studies, Vol. 27, No.1 Jan. June 2012.

INSTITUTE OF COMMUNICATION STUDIES

• **Projects (i) Completed**

- “Systematic Review of Mass Communication Research in Public Sector Universities of Pakistan (1960-2010): A Case Study of Punjab” funded by University of the Punjab (2011-12) submitted by Dr. Bushra H. Rahman.
- “Systematic Review of Mass Communication Research in Public Sector Universities of Pakistan: A Case Study of Sindh” funded by University of the Punjab (2011-12) submitted by Dr. Abida Eijaz.
- “Systematic Review of Mass Communication Research in Public Sector Universities of Pakistan: A Case Study of Islamabad and KPK” submitted by Mr. Shafiq Ahmad Kamboh.
- “Systematic Review of Mass Communication Research in Public Sector Universities of Pakistan: A Case Study of Baluchistan” submitted by Mr. Naveed Iqbal Ch.

(ii) Newly Launched

- “Compatibility of Media Education & Market Needs: Issues, Challenges & Future Directions” approved for financial assistance from Punjab University by Dr. Noshina Saleem.
- “Striking a balance between real world and normative approaches: Ethical values in media practices and media education in Pakistan” funded by University of the Punjab by Dr. Bushra H. Rahman.
- “Meta-Analysis of Mass Communication Research Journals Published by the Public Universities of Sindh From their Inception to 2012” A project of 2012-2013, approved for financial assistance from the Punjab University by Dr. Abida Eijaz.

• **Publications**

Dr. Noshina Saleem

- “Impact of Natural disasters terrorism & political news on KSC-100 Index” Forman Journal of Economic Studies, volume 8, 2012 by Noshina, S. Ahmad, Ali, S & Imran S.

Dr. Bushra H. Rahman

- “Framing of Pakistani Muslim Women in International Media: Muslim Feminist’s Perspective” in American International Journal of Contemporary Research, volume 2, No.1 published in January 2012.
- “Islam and the West - connectivity through religion: a case of religious journalism in Pakistan (2000-2010)” Universal Journal of Management and Social Sciences (UJMSS) volume 2, Issue 4 published in November 2012.
- “Muslim Women in the Religious Magazines of Pakistan: Preserving Muslim women identity in the religious magazines of Pakistan in IJMU (The International Journal of Muslim Unity) Volume 8, No.1 & 2 published in 2011.

Dr. Abida Eijaz

- “Commercialization of Religion in Pakistan,” published in American International Journal of Contemporary Research. Vol. 1 No. 2; September 2011.
- “Electronic Colonialism: Outsourcing as Discontent of Media Globalization” published in American International Journal of Contemporary Research. Vol. 1 No. 3; November 2011.
- “Global Economy: New Actors and New Perspectives,” published in Research Journal of International Studies - Issue 21 (October, 2011)
- “China Emerging as an Economic Giant and its Impact on the Region,” published in British Journal of Economics, Finance and Management Sciences. Volume 1 (2), September 2011
- “Articulation of Political Discourse Through The Prism Of Mass Media In Pakistan” Published in European Journal of Business and Social Sciences. Vol.1 2012.
- Media Affecting upon or Affected by Foreign Policy: The Case of Pakistan. Published in Journal of Alternative Perspectives in the Social Sciences (2012). Vol. 5 No.1, 74-95.
- Re-conceptualizing Secularism in the Backdrop of Fethullah Gullen: The Case of Pakistan. Published in New Media and Mass Communication. Vol. 8. 2012, Pp12-19

Mr. Shafiq Ahmad Kamboh

- Book published on “Agenda Setting Roles of Elite Urdu Press and Politicians in Pakistan: A study on treatment of columns and letter to the editor and statements of politicians” published in elite Urdu Press published by LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany in 2012.

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

- Organized a seminar on “Political Motivation & Awareness Among Youth” at Hameed Nizami Memorial Conference Room, ICS on October 13, 2011. Mr. Ibrar-ul-Haq (well-known singer and Chairman, Sahara Trust) was the guest speaker.
- Organized a recording of Mehfil-e-Mushaira for TV One at the Hameed Nizami Memorial Conference Room on November 03, 2011.
- Organized a seminar on “Maulana Zafar Ali Khan” at Institute on January 19, 2012 (Majeed Nizami, Khalid Mahmood, Mowahid Hussain Shah and Dr. Zahid Munir Aamir was the speakers and Prof. Dr. Mujahid Kamran, Vice Chancellor Punjab University presided over the session).
- Organized a seminar on “Balochistan and Media: Crises, Causes, Solution” at Institute on February 24, 2012. Mr. Hamid Mir, Mr. Aurya Maqbool Jan and Mr. Sohail Warraich were the guest speakers of this event.
- Organized a special lecture on "Media & Values" at Institute of Communication on April 19, 2012.
- Organized the 8th Anniversary of Punjab University Radio FM 104.6 at the Institute of Communication Studies on June 05, 2012.

- Organized a seminar on “National Issues and Responsibilities of Media” at Institute on June 14, 2012. Mr. Sajjad Mir, Mr. Irshad Ahmad Arif, Mr. Yasir Pirzada, Mr. Arshad Ansari, Mr. Ajmal Jami were the guest speakers of the seminar.
- Organized a special Lecture on "Media & Ethics" at the Institute of Communication Studies on June 26, 2012. Mr. Irfan Siddiqi (well-known columnist) was the guest speaker of the event.
- Organized a special Lecture on “Dengue Awareness” to the administrative and academic staff of the Institute of Communication Studies on August 26, 2012. Dr. Ijaz Qureshi, Institute of Public Health was the guest speaker.
- Organized a special lecture on “Dengue Awareness” at Institute on September 02, 2012. Dr. Muhammad Shaukat, Principal, Allama Iqbal Medical College, Lahore delivered the lecture.
- Organized a seminar on “Tahaffuz-e-Namoos-e-Risaalat and Media” at the Institute on September 20, 2012. Mr. Orya Maqbool Jaan and Mr. Farrukh Sohail Goindi were the guest speakers of this occasion.
- **Research Journals**
 - Biannual Journal of Media Studies

The Office of Research publishes:

 - Bi annual Journal of Media Studies
 - Communication Studies Bulletin (Newsletter)
 - A bilingual annual magazine “IMAGE”
 - Weekly Newspaper “IBLAGHIAT” as future plan

INSTITUTE OF SOCIAL & CULTURAL STUDIES

● **Publications**

Prof. Dr Muhammad Zakria Zakar:

- Zakar, Rubeena. (September, 2012). Intimate Partner Violence against Women and Its Implications for Women's Health in Pakistan. Hamburg, Germany: Disserta Verlag ISBN 978-3954250806

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

- DGEpi Conference 2011 “Biometry, Epidemiology and Informatics: Intersection between Health & Research” held in Mainz, Germany from 26-29th September 2011, sponsored by German Society of Epidemiology (DGEpi). Prof. Dr. Muhammad Zakar gave oral presentation on “Paternal factors associated with adverse birth outcomes: Evidence from Pakistan Demographic and Health survey.
- DGEpi Conference 2011 “Biometry, Epidemiology and Informatics: Intersection between Health & Research” held in Mainz, Germany from 26-29th September 2011, sponsored by German Society of Epidemiology (DGEpi). Dr. Rubeena Zakar gave oral presentation on “Determinants of maternal health care service utilization in Pakistan”.

- **Research Journals**

- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (2012). Voices of Strength and Struggle: Women's Coping Strategies against Spousal Violence in Pakistan. *Journal of Interpersonal Violence*, 27(16), 3268-3298. DOI: 10.1177/0886260512441257. (**Impact factor: 1.639**)
- Zakar, Rubeena, Muhammad Zakria Zakar, Thomas Faist, Alexander Krämer. (2012). Intimate Partner Violence against Women and related Immigration Stressors in Pakistani Immigrant Families in Germany. *Springer Plus*, 1:5. doi:10.1186/2193-1801-1-5. (**Internationally highly accessed article**)
- Zakar, Rubeena, Muhammad Zakria Zakar, Rafael Mikolajczyk, Alexander Krämer. (2012). Intimate partner violence and its association with women's reproductive health in Pakistan. *International Journal of Gynecology and Obstetrics*, 117(1), 10-14. (**Impact factor: 2.045**)
- Zakar, Rubeena, Muhammad Zakria Zakar, Claudia Hornberg, Alexander Krämer. 2012. Coping strategies adopted by pregnant women in Pakistan to resist spousal violence. *International Journal of Gynecology and Obstetrics*, 116(1), 77-78. doi:10.1016/j.ijgo.2011.08.006 (**Impact factor: 2.045**)
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. 2011. Spousal violence against women in the context of marital inequality: Perspectives of Pakistani religious leaders. *International Journal of Conflict and Violence*, 5(2), 371-384. (**Listed in ISI web of Knowledge index**).
- Wilke, Boris, Jochen Hippler, Muhammad Zakria Zakar. 2011. Violence Research from North Africa to South Asia: A Historical and Structural Overview. *International Journal of Conflict and Violence*. 5 (1) 2011, pp. 32 – 54. (**Listed in ISI web of Knowledge index**).
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. 2011. Primary health care physicians' response to the victims of spousal violence against women in Pakistan. *Health Care for Women International*, 32(9), 811-832. (**Impact factor: 0.63**)

Dr. Muhammad Hafeez

- Hafeez, M. (2012) 'Socio-political Complexity and National Interest: Some Thoughts and Ideas. Pakistan Sociological Review Vol. 1 Pp 1-10.
- Hafeez, M. 'Promoting Gender Awareness Among Health Workers. Conference Proceeding on Women's Empowerment and Social Transformation. Pp 35-54

Dr. Riffat Munawar:

- Munawar, R. Promoting Gender Awareness Among Health Workers. Conference Proceeding on Women's Empowerment and Social Transformation. Pp 35-54
- Munawar, R. (2011) 'Negotiating Political Spaces Analyzing Decentralization and Women's Political Empowerment in Pakistan.

Dr. Khalil Ahmad

- Ahmad,K., & Hafeez, M. (2011). Factors Affecting Social Participation of Elderly People: A Study in Lahore. *The Journal of Animal & Plant Sciences*, 21(2): 283-289.
- Ahmad,K. (2011). Older Adults' Social Support and its Effect on their Everyday Self-maintenance Activities: Findings from the Household survey of urban Lahore-Pakistan. *Research Journal of South Asian Studies*, 26 (1): 37-52

Dr. Fauzia Saleem Alvi

- Presented paper titled “Influence of Consumer Culture on Youth: A Case Study of Punjab” in 12th Annual Population Research Conference “ Pakistani Youth: The Ultimate Resource”. Organized by Population Association of Pakistan from November 22-24, 2011, at University of the Punjab. Lahore.
- Participated in a special lecture on “Perspectives on Public Decision Making Processes” delivered by Prof. Tom Christensen, Department of Political Science. University of Oslo. The lecture was organized by IAS, PU on 21st Sep, 2011.
- Being the co-rdinator of seminar series in 2011-2012, I have organized the following seminars at department level;
- Seminar on “Positive Thinking”. Speaker: Ms Ishrat Aliya Tariq. Youth consultant. Organized at the ISCS. University of the Punjab.Lahore on October 27, 2011
- Seminar on “Pakistani Society: A Demographic Analysis”. Speaker: Mr Mohsin Muslim. Gallup.Organized at the ISCS. University of the Punjab.Lahore on November 17, 2011
- Seminar on “ Takhleeq-e-Pakistan main Maulana Zafar Ali Khan ka Kirdar”. Speaker: Dr Zahid Munir Amir. President Maulana Zafar Ali Khan Chair. ICS. PU. Organized at the ISCS. University of the Punjab.Lahore on November 18, 2011
- Seminar on “Maujuda Pakistani Mausharay main Tasawar-e- Islam”. Speaker: Dr Hafiz Mahmood Akhtar. Dean Oriental Learning.PU. Organized at the ISCS.University of the Punjab.Lahore on December 8, 2011
- Seminar on “ Art as a Psycho Therapeutics Force”. Speaker: Mr. Asim Amjad. Artist & Psychodramatist. Fountain House. Lahore. Organized at the ISCS. University of the Punjab, Lahore on December 20, 2011.

FACULTY OF COMMERCE**HAILEY COLLEGE OF BANKING & FINANCE**

- **Research & Development – An Overview**

Prof Dr. Fouzia Naheed Khawaja is acting as Advisor research head in HCBF. The College had also hired Dr. Humera Shahid a PhD from abroad, as Assistant Professor. These all steps have been taken to further develop and foster the research culture in department. The College also plans to start

MPhil and PhD programs. We are also planning to hold international conference and soon will take the necessary measures for call of papers and related activities.

- **Projects**

Research backed teaching is continuing and material continuous to be distributed to stakeholders.

- **Publications**

Sr. No.	Author	Book Title	Edition	Published By	Pages
1	Prof. Dr. Khawaja Amjad Saeed	Principles of Auditing	2012	Khawaja Publications	425
2	Prof. Dr. Khawaja Amjad Saeed	Advanced Auditing	2012	Khawaja Publications	575
3	Prof. Dr. Khawaja Amjad Saeed	Information Technology For Business Executives (Jointly Authored): with Two Sections namely: Concepts & Applications	2011	Khawaja Publications	304
4	Prof. Dr. Khawaja Amjad Saeed	Company Law in Pakistan	2012	Khawaja Publications	445
5	Prof. Dr. Khawaja Amjad Saeed	Management: Concepts & Cases (12) Foreword by: Prof. Danishmand, Former Dean & Director IBA, Karachi	2012	Khawaja Publications	307
6	Prof. Dr. Khawaja Amjad Saeed	The Economy of Pakistan	2011	Oxford University Press	467
7	Prof. Dr. Khawaja Amjad Saeed	Mercantile & Industrial Laws in Pakistan	2012	Oxford University Press	212
8	Prof. Dr. Khawaja Amjad Saeed	Income Tax Law of Pakistan	2012-13	Oxford University Press	-
9	Mr. Riaz Ahmad Mian	Money Banking & Currency	2012-13	Azeem Academy	429
10	Mr. Riaz Ahmad Mian	Banking & Finance	2012-13	-do-	361

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

Presentations in Conferences, Seminars and Workshops By Prof. Dr. Khawaja Amjad Saeed

- 2011 Investment Segments Review of Pakistan
- Company Law of Pakistan
- Corporate Governance
- Corporate Governance Past, Present and Future

- Corporate Lending Risk Analysis
- Cost & Management Accountants as Future Leaders
- Decision Making, Conflict Resolution, Negotiation Skills
- Developing Answers to Cases
- Economic Development & Population Control
- Economic Philosophy of Allama Iqbal
- Economy of Pakistan
- Emerging trends & Challenges in Capital Markets
- Enterprise Governance: Best Practice in SAFA Region
- Federal Budget 2012-13
- GEO Politics SAARC Economic Implications
- Health Sector
- Human Resource Management: Intretrospect & Modern Trends
- International Human Resource Management: Major Issues & Our course of Action
- Inventory Management from Hunch to MRP
- Islamic Banking in Pakistan
- KSE Listed Companies
- Listed Insurance Sector An Analysis
- Management Development
- Management Education Suggested Agenda for Quality
- Managing changing Through Motivation
- Orientation HCBF
- Orientation Noble College of Business Administration, Lahore
- Orientation of MBA Evening, HCBF
- Orientation Session Jinnah Islamia College
- Quaid-e-Azam
- Research Methodology
- SAARC 2012
- Show Casing innovation Creativity
- The Rise of Islamic Banking in Pakistan: Comparative Study of Conventional and Islamic Banking
- Women Empowerment Global Experiences & Divine Guidance
- World of Export Global and Regional Analysis

Presentations in Conferences, Seminars and Workshops By Mrs. Tahreem Sadiq

- Street Vendors and their Business Places: An Exploratory Study in Lahore. Published in Conference proceedings of ISSOS- 2011.

- **Research Journals**

Sr. No.	Authors Name	Article Name	Journal with Date
1.	Prof. Dr. Khawaja Amjad Saeed	Corporate Governance Past, Present and Future	Pakistan and Gulf Economist. September 2012
2.	Prof. Dr. Khawaja Amjad Saeed	Transparency International's Corruption Perception Index	Pakistan and Gulf Economist. December 2011
3.	Prof. Dr. Khawaja Amjad Saeed	Enterprise Governance: Best Practices in SAFA Region	Pakistan and Gulf Economist. July 2012
4.	Prof. Dr. Khawaja Amjad Saeed	Islamic Banking in Pakistan	The Pakistan Accountant. September 2012
5.	Prof. Dr. Khawaja Amjad Saeed	Pre-Budget 2012-13: Strategic Suggestions	Pakistan and Gulf Economist. May 2012
6.	Prof. Dr. Khawaja Amjad Saeed	Women Empowerment Global Experience & Divine Guidance	Management Accountant, September 2012
7.	Prof. Dr. Khawaja Amjad Saeed	Punjab in An Economics and budgetary Framework	Pakistan and Gulf Economist. December 2011.
8.	Dr. Humera Shahid	DO Accounting Based Regulations Reduce information Asymmetry Problem? Evidence From China	Interdisciplinary Journal of Contemporary Research in Business, August 2012

RESEARCH COLLABORATION

Research based articles have been contributed by our faculty members.

HAILEY COLLEGE OF COMMERCE

- **Publications**
 - 206 Research Publications of HEC Faculty Members in 2011
- **Conferences, Seminars and Workshops etc.**
 - 07 Seminars and Workshop of National and International attended by the HCC faculty members.
- **Research Journals**
 - Hailey College published Annual Journal Al-Iqtisad.

FACULTY OF ECONOMICS & MANAGEMENT SCIENCES

DEPARTMENT OF ECONOMICS

- **Publications**

Professor Dr. Hafeez ur Rehman (Chairman)

 - Nabeela Asghar, Asma Awan and Hafeez ur Rehman (2011), Exploring the linkages among economic growth, openness, income inequality, education and health in Pakistan. *Canadian Social Science*, Volume 7, No. 6, pp. 82-88.
<http://dx.doi.org/10.3968/j.css.1923669720110706.094>

- Nabeela Asghar, Zakir Hussain and Hafeez ur Rehman (2012), The impact of government spending on poverty reduction: Evidence from Pakistan 1972 to 2008. *African Journal of Business Management*, Volume 6, No. 3, pp. 845-853.
<http://dx.doi.org/10.5897/AJBM11.922>
- Nabila Asghar, Asma Awan and Hafeez ur Rehman (2012), Human capital and economic growth in Pakistan: A cointegration and causality analysis. *International Journal of Economics and Finance*, Volume 4, No. 4 (April), pp. 135-147.
<http://dx.doi.org/10.5539/ijef.v4n4p135>
- Nabila Asghar, Samia Nasreen and Hafeez ur Rehman (2012), Relationship between FDI and economic growth in selected Asian countries: A panel data analysis. *Review of Economics and Finance*, No. 1, pp. 84-96.
- Asma Awan, Nabeela Asghar and Hafeez ur Rehman (2012), The impact of governance on external debt burden in Pakistan. *Actual Problems of Economics*, No. 3(129), pp. 321-330.
- Wasim ul Rehman, Hafeez ur Rehman, Muhammad Usman and Nabila Asghar (2012), A link of intellectual capital performance with corporate performance: Comparative study from banking sector in Pakistan. *International Journal of Business and Social Science*, Volume 3, No. 12 (Special Issue), pp. 313-321.
- M. Azhar Khan and Hafeez ur Rehman (2012), Regional disparities in human capital: The case of Pakistan. *Pakistan Economic and Social Review*, Volume 50, No. 1, pp. 57-70.
- Nabila Asghar, Parvez Azim and Hafeez ur Rehman (2012), Impact of government spending in social sectors on economic growth: A case study of Pakistan. *Journal of Business and Economics*, Volume 3, No. 2, pp. 214-234.
- Nabila Asghar, Asma Awan and Hafeez ur Rehman (2012), Health/growth dynamics in Pakistan: A simultaneous model. *Actual Problems of Economics*, No. 12(138), pp. 276-285.

Dr. Hafiz Khalil Ahmad

- Zafar, Madiha and Ahmad, Khalil, "Export Growth and Volatility of Exchange Rate: A Panel Data Analysis", *Business and Social Science Review*, Vol. 1, No 4, October 2011, pp. 4-35.
- Ahmad, Khalil and Heng, Anthony Chin Theng, "Determinants of Agriculture Productivity Growth in Pakistan", *International Research Journal of Finance and Economics*, issue 95, 2012, pp. 163-172.

Dr. Tahir Mahmood

- Tahir Mahmood and Shahnaz A. Rauf (2012), Public Debt Sustainability: Evidence from Developing Country: *Pakistan Economic and Social Review*, Volume 50, No. 1 (Summer2012), pp. 23-40
- Tahir Mahmood and Muhammad Farooq Arby (2012), Business cycles in Pakistan. *International Journal of Business and Social Science*, Volume 3, No. 4 (Special Issue), pp. 271-277.

- **Research Journals**

- Pakistan Economic and Social Review

DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

- **Research & Development – An Overview**

- DLIS published its HEC recognized annual Pakistan Journal of LIS, and the faculty's research got published in national and international journals. We produced 8 M.Phil and two PhD.

- **Publications**

Research Papers

- Ameen, K. (2011). Changing scenario of librarianship in Pakistan: Managing with the challenges and opportunities. *Library Management*, 32(3), 171-182.
- Arshad, A., & Ameen, K. (2011). Reality versus expectations: A survey of university of the Punjab's libraries using servqual. *Library Philosophy and Practice*.
- Rafiq, M., & Ameen, K. (2012). Use of digital media and demand for digitized contents in higher education sector of Pakistan. *International Information and Library Review*, 44(3), 116-122.
- Tahira, M., Alias, A., & Ameen, K. (2012). Seeking online information sources among science faculties of developing countries. *Library Philosophy and Practice*.
- Mahmood, K. (2012). LIS curriculum review using focus group interviews of employers. *Library Philosophy and Practice (LPP)*.
- Mahmood, K., & Richardson Jr., J. V. (2011). Adoption of Web 2.0 in US academic libraries: A survey of ARL library websites. *Program: Electronic Library and Information Systems*, 45(4), 365-375.
- Mahmood, K., & Shafique, F. (2012). Alumni participation in LIS program review: The case of MLIS at University of the Punjab. *Library Philosophy and Practice (LPP)*.
- Rehman, S. U., Shafique, F., & Mahmood, K. (2011). A survey of user perception and satisfaction with reference services in university libraries of Punjab. *Library Philosophy and Practice (LPP)*.
- Richardson, J. V., & Mahmood, K. (2012). eBook readers: User satisfaction and usability issues. *Library Hi Tech*, 30(1), 170-185.
- Shafique, F., & Mahmood, K. (2011). Availability of needed information to educational administrators in Pakistan: A survey. *Chinese Librarianship: An International Electronic Journal*, 32, 1-33.
- Anwar, M. A. (2011). Remembering late Mr. Abdur Rahim Khan. *Pakistan Library & Information Science Journal*, 42(1), 3-6.
- Fatima, N. & Ameen, K. (2011). Employment and learning outcomes of LIS graduates: A case of Pakistan. *Education for Information*, 28(2-4), 315-324.
- Memona Iqbal & Nosheen Fatima Warraich (2012). Usability evaluation of an academic library website: A case of the University of the Punjab *Pakistan Journal of LIS*.

- Batool, S. H. & Asghar, A. (2012). Mobile phone text messaging use among university librarians of Lahore city. *International Information and Library Review*, 44(3), 164-170.
- Syeda Hina Batool, Khalid Mahmood Teachers' conceptions about information literacy skills of school children, *Pakistan Journal of LIS*.
- Rehman, S. U., & Khalid, M. (2012). A macro sketch of users' needs, satisfaction and library performance. *Library Philosophy and Practice*.
- Wiorogórska, Z., & Rehman, S. U. (2012). When librarians become researchers: The creation of international culture of knowledge sharing beyond the borders. *Pakistan Library and Information Science Journal*, 43 (2), 22-33.
- Rehman, S. U. (2012). Understanding the Expectations of Pakistani Libraries Users: A LIBQUAL Study. *Library Philosophy and Practice*.
- Rehman, S. U., & Mustafa El Hadi, W. (2012). Perceptions of Pakistani users about library service quality: LIBQUAL comments. *Library Philosophy and Practice*.
- Ali, H. & Rehman, S. U. (2012). The changing role of academic libraries: Knowledge organization perspective. *Pakistan. Pakistan Library and Information Science Journal*, 43(1), 12-17.
- Rehman, S. U., Shafiq, F., & Khalid, M. (2011). A survey of user perception and satisfaction with reference services in university libraries of Punjab. *Library Philosophy and Practice*.
- Arshad, A., & Ameen, K. (2011). Reality versus expectations: A survey of university of the Punjab's libraries using servqual. *Library Philosophy and Practice*.
- **Books Published**
 - Altaf, A., & Fatima, N. (2012). *Use of Electronic Resources: A Study of University of the Punjab*, 84 pages, LAMBERT Academic Publishing.
- **Conferences, Seminars and Workshops etc.**
 - A seminar on "Preparing for job" was organized in the Department on 13th September, 2012 for outgoing MLIS class morning/afternoon session 2010-12. Renowned professionals from the field , Ms. Bushra Almas (Chief Librarian & Associate Professor, FC College), Ch. Muhammad Hanif, (Chief Librarian, Punjab University Library), and Mr. Shahid Soroya (President, PULISAA) were invited to share their experiences regarding job hunting tips.
 - DLIS & PULISAA jointly organized a seminar on "Writing a research proposal" on 12th September, 2012. A large number of professional librarians participated in the seminar. Prof. Dr. Kanwal Ameen, Prof. Dr. Khalid Mahmood and Prof. Dr. Mumtaz Anwar gave presentations on writing various parts of a research proposal.
 - A lecture by Dr. Carol Mitchell, the Field Director, Library of Congress Office, Islamabad, was organized with the collaboration of the American Information Resource Center, Lahore on 31st, January, 2012. She spoke on "The Library of Congress and the change in professional landscape". She introduced Library of Congress services and latest professional skills needed in emerging librarianship. Prof. Kanwal Ameen briefed her on the Department's history.

- The Department organized two consecutive workshops on “Research ethics, EndNote and Turnitin software” on 25th-26th September and 1st-2nd October, 2012. These workshops were designed specifically for the PU faculty members to facilitate them in conducting research. Forty six faculty members attended the workshops. Prof. Dr. Kanwal Ameen, Prof. Dr. Khalid Mahmood, Dr. Nosheen Fatima and Dr. Shafiq Ur Rehman were the resource persons.
- The first HEC workshop “Developing master trainers for HEC-National Digital Library” jointly sponsored by the HEC Learning & Innovation Division and PU was organized on 4th & 5th April, 2012 at DLIS. PU VC Prof. Dr. Mujahid Kamran was the chief guest. The workshop was specifically designed for the PU departmental librarians to enable them to make extensive use of the National Digital Library (NDL) resources for their faculty and researchers as well as transfer these skills to their users. DLIS faculty had different sessions with the participants. Dr. Kanwal Ameen, Dr. Khalid Mahmood, Dr. Nosheen Fatima Warraich, Dr. Muhammad Rafiq, Syeda Hina Batool were resource persons of the said workshop.
- A lecture by Prof. Dr. Khawaja Zikria on “Role of reading habit on the personality development” was organized for the MLIS students on 12th December, 2011. He emphasized to develop reading habits and recommended a list of books for students to groom their personality traits.
- A workshop on “Digital assets management (DAM)” was organized on 18th January, 2012 at the auditorium of PU Library. Dr. Abdus Sattar Chaudhry, a renowned scholar and from the MLIS program at the College of Social Sciences of Kuwait University was the resource person. The workshop was attended by more than 120 professionals. Dr. Sattar discussed the key concepts of DAM and the practical aspects of organizing information in digital forms.
- Mr. Shah Nawaz Zaidi, ex-principal, PU College of Art & Design, delivered a lecture on “Human personality” on 24th October, 2011 to MLIS students. He emphasized that to be a good human being they have to be a good listener, enthusiastic, accepting mistakes, avoiding grudges and humble on achievements.

As Invited Speaker

- Dr. Kanwal Ameen was a key note speaker at National Conference on “Changing Paradigm of LIS Profession in Pakistan” organized by the Dept. of LIS, Allama Iqbal Open University, Islamabad, 19-20 Oct., 2011.
- Dr. Kanwal Ameen delivered a presentation on ‘Literature and Literature Review’ in a workshop on “Enhancing your research skills” at IBA, Karachi organized by the Institute on 19 September, 2012.
- Dr. Kanwal Ameen delivered a lecture on Marketing and Librarianship at Dept. of LIS, University of Karachi, 20 Sep., 2012.
- Dr. Kanwal Ameen was a guest speaker at Peshawar University Campus Librarians Association’s 5 days Seminar on “Library Management in Virtual Environment”. 2-6 June, 2012.

- Dr. Kanwal Ameen gave presentation on 'Needed Competencies for LIS Professionals in Pakistan: Growing from Custodian to iLeader'. Lecture on 'LIS professionals and Identity Crises' organized by the DLIS, Sindh University, Jamshoro on 18 September, 2012.
- Dr. Kanwal Ameen gave a lecture on 'Writing a Literature Review' in a workshop on "Writing a Research Proposal" organized jointly by the PULISAA and DLIS, PU.
- Prof. Dr. Kanwal Ameen and Dr. Nosheen Fatima delivered lectures on "Research, publication and information management" in PU faculty orientation program on 6th July, 2012 at Institute of Administrative Sciences, University of the Punjab.
- Prof. Dr. Kanwal Ameen was invited at Lahore College Women University as guest speaker in a seminar on "Avoiding plagiarism" on 2nd May, 2012.
- Dr. Kanwal Ameen was a guest speaker at a seminar organized by the PU Institute of Agricultural Sciences (IAGS) on 11th April, 2012 on "Plagiarism: How to avoid it".
- Dr. Khalid Mahmood presented a paper and chaired three sessions at 7th National LIS Conference on "Information Resources and Services in the 21st Century" organized by Department of Library and Information Science and Central Library, University of Peshawar, Baragali, Jul. 17-19, 2012.
- Dr. Khalid Mahmood delivered a lecture on "LIS Research in Pakistan: Problems and Prospects" organized by Islamia University Library and Information Science Alumni Association (IULISAA), Islamabad, Jun. 13, 2012.
- Dr. Khalid Mahmood participated as resource person in an international online workshop on "Publishing Your Research" organized by Institute of Research Promotion, Lahore, May 26, 2012.
- Dr. Khalid Mahmood participated as resource person in an international online workshop on "Mastering Scale Development and Reliability and Validity of Scale" organized by Research Center for Training & Development, Lahore, May 19, 2012.
- Dr. Khalid Mahmood participated as resource person in an international online workshop on "Mastering Survey Methodology" organized by Research Center for Training & Development, Lahore, April 28, 2012.
- Dr. Khalid Mahmood participated as resource person in the workshop on "Publishing Your Research" organized by University of Management & Technology and Institute of Research Promotion, Lahore, Mar. 31, 2012.
- Dr. Khalid Mahmood participated as resource person in an international online workshop on "Mastering Dissertation/Thesis/Paper Writing" organized by Research Center for Training & Development, Lahore, Mar. 24, 2012.
- Dr. Khalid Mahmood participated as resource person in the "National Workshop on Library Automation Package Koha" organized by Pakistan Scientific & Technological Information Centre (PASTIC), Islamabad, Feb. 20-24, 2012.

- Dr. Khalid Mahmood participated as resource person in the workshop on “Managing Information” organized by Faculty of Behavioral & Social Sciences, University of the Punjab, Lahore, Jan. 13-14, 2012.
- Dr. Nosheen Fatima Warraich presented her paper “Impact of E-Sources on E-Learning among Library Science Professionals in Universities: A Case of Pakistan in 5th ICELW Conference, 13-15 June 2012 in Columbia University, New York, United States.
- Dr. Nosheen Fatima delivered lectures on “Research, publication and information management” in PU faculty orientation program on 6th July, 2012 at Institute of Administrative Sciences, University of the Punjab.
- Dr. Shafiq ur Rehman presented a paper ‘Measuring service quality in public and private sector university libraries of Pakistan’ in First Open LIS Conference Changing Paradigm of LIS Profession in Pakistan on 19- 20 October, 2011, Islamabad.
- **Research Journals**
 - Pakistan Journal of Library and Information Science, HEC recognized annual journal with annual frequency.

RESEARCH COLLABORATION

- International Research Collaboration
- **Funding Grants for R&D**
 - Dr. Nosheen Fatima Warraich got PU travel grant to present her paper in 5th ICELW Conference, 13-15 June 2012 in Columbia University, New York, United States.
 - Dr. Nosheen Fatima Warraich got PU research grant as Principal Investigator for her project titled “Need of Institutional Repositories in Archiving Indigenous Scholarly Literature: A Case of PU” (2011-2012)

INSTITUTE OF ADMINISTRATIVE SCIENCES

● **Publications**

Sr. #	Name of Author	Title of Paper	Name of Journal / Conference	Vol.	Date	Page #
1.	Sheikh, Labiba and Muhammad Zafar Iqbal Jadoon	“Path Dependency and Path Creation: Exploring the Possibility of Integration”	2 nd International Conference on Path Dependency to be held at School of Business, University of Berlin, Germany.	-	March, 2011	-
2.	Jadoon, Muhammad Zafar Iqbal, Jabeen, Nasira, Aisha Rizwan	“Federal Agencies in Pakistan”	European Group of Public Administration (COST)	-	May 2011	-

Sr. #	Name of Author	Title of Paper	Name of Journal / Conference	Vol.	Date	Page #
3.	Dr. Zafar Iqbal Jadoon & Dr. Nasira Jabeen	Public Administration Education in Pakistan: Issues, Challenges and Opportunities	Pakistan Vision, Pakistan Study Centre, University of the Punjab	Vol. 11 No. 1	2011	121-141
4.	Prof. Dr. Nasira Jabeen	Governance and Management of third sector organizations	P.U. Research Project		2011	
5.	Jadoon, Muhammad Zafar Iqbal, Jabeen, Nasira, Aisha Rizwan	Governance and Management of Public Sector Organizations of Pakistan	Research Project with COBRA – HEC funded		2011	
6.	Sabeen Imran	An analysis of social security and worker welfare schemes in Pakistan	P.U. Research Project		2011	
7.	Aisha Rizwan & Dr. Zafar Iqbal Jadoon	Agencification in Pakistan: A comparative study of service delivery and regulatory agencies	32 nd International conference, European group of Public Administration, Toulouse, France	-	September 8-10, 2010	-
8.	Dr. Nasira Jabeen & Dr. Zafar Iqbal Jadoon	Gender and local governance in Pakistan: Promoting participation through capacity building	South Asian Studies	Vol. 25 No.2	July-December, 2010	255-281

INSTITUTE OF BUSINESS ADMINISTRATION

• Publications

- Prof. Dr. Muhammad Ehsan Malik, Danish, R. Q., & Munir, Y. (2012). The Role of Transformational Leadership and Leader's Emotional Quotient in Organizational Learning. *World Applied Sciences Journal* 16(6): 814-818. AUSTRALIA Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Danish, R. Q., & Munir, Y. (2012). Determinants of Learning Organization in Higher Education Institutes: A Correlational Study. *International Journal of Innovation, Management and Technology*, 3(2): 117-120. SINGAPORE Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Danish, R. Q., & Munir, Y. (2012). The Impact of Pay and Promotion on Job Satisfaction: Evidence from Higher Institutes of Pakistan. *American Journal of Economics*, June 2012 Special Issue: 6-9. UNITED STATE OF AMERICA (Peer-reviewed journal).

- Prof. Dr. Muhammad Ehsan Malik & Naeem, B. (2012). Towards Understanding Controversy on Herzberg Theory of Motivation *Journal of Basic and Applied Scientific Research* 2(11),11936-11941. EGYPT Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik & Naeem, B. (2012). Aaker's Brand Personality Framework: A Critical Commentary *Journal of Basic and Applied Scientific Research* 2(12),11992-11996. EGYPT Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Ahmad, W. (2012). Role of Optimism Subculture and Optimism in Sales force Creative Performance: Empirical Evidence from Pharmaceutical Industry in Pakistan, *Journal of Basic and Applied Scientific Research* 2(12),12389-12395. EGYPT Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Ahmad, W. (2012). Creative Performance of Pharmaceutical Sales force: Role of Intrinsic Motivation and Learning Goal Orientation, *Journal of Basic and Applied Scientific Research* 2(12),12633-12640. EGYPT Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Munawar, M. (2012). Brand Image: Past, Present and Future, *Journal of Basic and Applied Scientific Research* 2(12),13069-13075. EGYPT Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Munir, Y., Zainab, Z., Hussain, S., Munawar, S., Bashir, A. (2012). Empirical Investigation of Leadership Style on Enhancing Team Building Skills. *Interdisciplinary Journal of Contemporary Research in Business* 4(8),738-749. UNITED KINGDOM (Recognized "Y" Category by HEC)
- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M M, & Iqbal, H. K. (2012). Impact of Brand Image, Service Quality and price on customer satisfaction in Pakistan Telecommunication sector. *International Journal of Business and Social Science* 3(23),123-129. UNITED STATE OF AMERICA (Recognized "Y" Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Munir, Y., Ejaz, F., Alam, A., & Aqsa, A. (2012). Cross Sectional Examination Of Team Performance And Impact Of Organizational Change On Team Building, *Far East Journal of Psychology and Business*, 9(2), 48-56 HONG KONG. (Recognized "Y" Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Munir, Y., Chahal, A., Nasir, S. & Iftikhar, N. (2012). Rethinking Leadership Style: How Different Approaches And Leadership Power Manage Organizational Stress?, *Far East Journal of Psychology and Business*, 9(3), 9-18 HONG KONG. (Recognized "Y" Category by HEC).
- **Conferences, Seminars and Workshops etc.**
 - Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in International Conference on "Management Research" organized by Superior University, Lahore Pakistan in associations

with The University of New Castle, Australia and Rouen Business School, France held at Superior University, Lahore on 15th December 2011.

- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in International Conference on “Management, Business Ethics and Economics” organized by COMSATS Institute of Information Technology (CIIT) in associations with the Academy of Global Business Advancement (AGBA) held at Pearl Continental Hotel Lahore, Pakistan from December 28 to 29, 2011.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in Annual Conference on “Innovations in Management & Doctoral Symposium” organized by Centre for Innovations in Business & Management Practices (CIBMP) held at University of London, London, UK on 27th February 2012.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in 2nd International Conference on Business Management on “Business, Society, Science and Technology” organized by the University of Management and Technology, Lahore in association with IBA-Sukkur, AMDIP, Higher Education Commission etc. held at Pearl Continental Hotel Lahore, Pakistan from March 28 to 29, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in 4th Global Conference on SME, Entrepreneurship and Service Innovation (GCSMES) 2012 to be organized by Griffith University, Australia at Gold Coast, Queensland, Brisbane, Australia from July 12 – 13, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated as Peer Review Team Leader in AMDISA’s South Asian Quality Assurance Systems (SAQS) meeting held at School of Business and Economics (SBE), University of Management and Technology, Lahore Pakistan for SAQS Accreditation process from August 16 to 17, 2012.

INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

• Publications

Different faculty members were involved in publications in HEC recognized journals. During the said period 8 research papers and 18 books were contributed by the faculty members of IBIT.

Papers Published	Books Published
08	18

○ Papers Published

Sr. No	Name of Faculty Member	Co-author	Title of Research Paper	Name of Publishing Journal	Vol.
1	Dr. Syed Mansoor Sarwar	Aamir Sarwar	“Factors having Impact on the Performance of Business Students: Case Study of Institute of	International Journal of Business and Social Sciences (IJBSS), September,	Vol.3 No.12, PP: 279-293

Sr. No	Name of Faculty Member	Co-author	Title of Research Paper	Name of Publishing Journal	Vol.
			Business and Information Technology (IBIT), University of the Punjab, Lahore, Pakistan	2012	
2	Aamir Sarwar	Dr. Syed Mansoor Sarwar	"Factors having Impact on the Performance of Business Students: Case Study of Institute of Business and Information Technology (IBIT), University of the Punjab, Lahore, Pakistan	International Journal of Business and Social Sciences (IJBSS), September, 2012	Vol.3 No.12, PP: 279-293
3	Aamir Sarwar	Hamza Qureshi	"Satisfaction Level with Employer Based Health Insurance in Pakistan: Study of Private and Public Sector Employees in Pakistan"	International Journal of Business and Commerce (IJBC), September, 2012	Vol.2 No.12, PP: 54-66
4	Hamza Qureshi	Aamir Sarwar	"Satisfaction Level with Employer Based Health Insurance in Pakistan: Study of Private and Public Sector Employees in Pakistan"	International Journal of Business and Commerce (IJBC), September, 2012	Vol.2 No.12, PP: 54-66
5	Shamaila Gull	Habib-ur-Rehman & Syeda Farheen Batul Zaidi	Impact of Conflict Management Styles on Team Effectiveness in Textile Sector of Pakistan	International Journal of Business and Management(IJBM) February, 2012	Vol. 7 No. 3
6	Shamaila Gull	Ayla Abbas Zadi	"Impact of Organizational Politics on Employees' Job Satisfaction in the Health Sector of Lahore Pakistan"	Interdisciplinary Journal of Contemporary Research in Business (IJCRB) June,2012	Vol.4 No. 2
7	Shamaila Gull	Sahar Mubeen Ashraf	"Impact of Internal Branding on Service Employees' Quality Commitment – Study on Education Sector of Pakistan"	International Journal of Business and social Science (IJBSC) July, 2012	Vol. 3 No. 14
8	Shamaila Gull	Sahar Mubeen Ashraf	"Impact of Internal Branding on Service Employees Quality Commitment – Study on I.T. Solution Sector of Pakistan"	Interdisciplinary Journal of Contemporary Research in Business (IJCRB) July, 2012	Vol. 4 No. 3

○ **Books Published**

Sr. No	Name of Faculty Member	Title of Book	Year of Publication	Name of Publisher
1	Aamir Sarwar	CAMEL Rating Application on Commercial Banks in Pakistan	October 2011	LAP, Germany
2	Shamaila Gull	Impact of CSR on Customers Retention in different Sectors of Pakistan	Nov,2011	LAP, Germany
3	Mansoor Mahmood Ashiq	Branding of Political Party Workers of Pakistan	Dec, 2011	LAP Lambert Academic Publishing,
4	Aamir Sarwar	Factors having Impact on the Career Decisions: Study of the Business Graduates in Pakistan	July 2012	LAP, Germany
5	Aamir Sarwar	Factors Influencing the Bank Selection Decision of Students: An Investigation of the Business Graduates	July 2012	LAP, Germany
6	Aamir Sarwar	Satisfaction Level with Employer Based Health Insurance n Pakistan: Study of Private and Public Sector Employees in Pakistan	July 2012	LAP, Germany
7	Shamaila Gull	Consumer Demographics, Retail Store Attributes and Store Choice	August 2012	LAP, Germany
8	Shamaila Gull	Advertising, Sales Promotion and Brand Switching	August 2012	LAP, Germany
9	Hira Aftab	Impact of rewards on the Job performance	July 2012	Lambert Academic Publishing
10	Hira Aftab	Does Asset price bubble affects investor's behavior	August 2012	Lambert Academic Publishing
11	Hira Aftab	Influence of Job Satisfaction in escalating Employee Performance	September 2012	Lambert Academic Publishing
12	Hira Aftab	Work Stress and Counter Work Productive Behavior	August 2012	GRIN
13	Amna Arif	Job Satisfaction & Organizational Citizenship Behavior	August 2012	Lambert Academic Publishing
14	Amna Arif	Brand-Consumer Congruence Personality and Brand Quality Relationships	August 2012	Lambert Academic Publishing

Sr. No	Name of Faculty Member	Title of Book	Year of Publication	Name of Publisher
15	Amna Arif	Impact of Corporate Social Responsibility On Brand Image	September 2012	Lambert Academic Publishing
16	Hina saleem	Antecedents & Consequences of Organizational Citizenship Behaviours	September 2012	LAP, Germany
17	Farheen Zaidi	Investor's Personality and Cognitive Biases: An Investigation of Behavioral Finance Theory In Lahore Stock Exchange (LSE)	October 2012	Lambert Academic Publishing
18	Hamza Qureshi	Satisfaction Level with Employer Based Health Insurance n Pakistan: Study of Private and Public Sector Employees in Pakistan	July 2012	LAP, Germany

FACULTY OF EDUCATION

DEPARTMENT OF SPECIAL EDUCATION

- **Research & Development – An Overview**

The research papers of faculty members have been published in various journals. They have also presented their papers at international conferences.

- **Publications**

Dr. Humara Bano

- Provision of Special Educational need s of hearing impaired Children” in Pakistan Journal of Special Education, ISSN 1818-2860, Volume (13), 2012 (Pp 131-137). Department of Special Education, University of Karachi.
- “Activities of Physical Education for Girls with visual impairment and their access in Pakistan”, in Pakistan Journal of Special Education, ISSN 1818-2860, Volume (12), 2011 (Pp 11-19). Department of Special Education, University of Karachi.
- “ A comparative study of self concepts among hearing impaired adolescents and visually impaired adolescents,
- in Pakistan Journal of Special Education, ISSN 1818-2860, Volume (12), 2011 Department of Special Education, University of Karachi.

Dr. Hina Fazil

- A research paper is published on, “Level of job satisfaction in principals of Special schools of Karachi, Pakistan” ijcrb.webs.com interdisciplinary journal of contemporary research in business

copy right © 2012 institute of interdisciplinary business research 566.July 2012 Vol. 4, no.3 pp.566-581.

- Hina, F. & Hameed, A. (2011). "The Level of Access to Quality Health and Physical Education of Children with Disabilities in Pakistan" EDUCERE: Pakistan Journal of Education, Department of Education, University of Karachi, BCC&T Press, Vol.1, pp. 23-34.

Hina, F. (2011). "Behavior Modification Techniques used by the Teachers of Children with Autism in Pakistan". SCHEMA Annual Journal of Humanities and Social Sciences, Department of Special Education, University of Karachi, Vol.8, pp. 91-103.

Dr. Samina Ashraf

- A research paper published in SCHEMA a journal of humanities and social sciences entitled "classroom communication and academic achievement of students with hearing impairment in segregated and inclusive settings" ,volume 8,2011
- A research paper published in SCHEMA a journal of humanities and social sciences entitled "Use of Pakistan sign language books by students with hearing impairment" volume 8,2011

Mrs. Ghulam Fatima

- A research paper is published on "Problems faced by students with hearing impairment in inclusive education at university level" in Journal of Research & Reflections in Education, December 2012, Vol. 6, No. 2, pp 134-143. University of Education, Lahore.
- A research paper is published on "A study of life goals of persons with visual impairment" in Pakistan Journal of Special Education, Vol.13, 2012,pp 1-17. Development of Special Education, University of Karachi, Pakistan.

• Conferences, Seminars and Workshops etc.

Dr. Humara Bano

- Attended one day seminar on "Information Technology for Persons with Disabilities" on 15th October in celebration of white cane safety day, at University of Management and Technology, organized by the UMT.
- Attended seminar on "Nine Eleven and World War-III" September,11, 2012 at Al-razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. The worthy Vice Chancellor, Prof. Dr. Mujahid Kamran was Key Note speaker.
- Attended a seminar on "Defense Status of Pakistan" in Celebration of Pakistan Defense Day on September,6 2012 at Al-razi Hall Undergraduate block,Quaid—a-azam campus ,Punjab University Lahore.
- Presented a paper on "Rights of the Persons with Disabilities and Inclusion "in National Conference on Special Education held in February 2012, at Holiday Inn, Lahore

- Presented a paper on “Functional Curriculum for Individuals with Intellectual Disability” in the Symposium on “Challenges and Opportunities for children with intellectual Impairment” at University of Central Punjab, on 21-4-2012.
- Deliver a lecture on “Classroom management for children with special needs” in a 5 days National workshop on Inclusive education at Govt. In service teachers training college for the disables on 14-04-2012.
- Deliver two lectures on “Curriculum adaptations and modifications by teachers in inclusive setting” and “Development of lesson plans for inclusive classroom for special needs” in a 6 days workshop on Inclusive education at Govt. In service teachers training college for the disables on 6-6-12 in a series of National workshops on inclusive education from 04-06-12 to 09-6-12.
- Attended “5th National Task Force meeting to implement EFAVI campaign” as focal person at Dreamland Motel, Club Road, Islamabad on 20-9-12 organized by Council of Community Development(CCD), Rawalpindi.
- Attended a seminar on “Programs of Helping Hands for Relief and Development (HHRD) in Department of Special Education, University of the Punjab, Lahore on 6th June, 2012. Mr. Khalid Naeem, former Director General of Special Education, Honorary Country Director (ICEVI), Advisor (Rehabilitation) HHRD was the keynote speaker.
- Attended a seminar on “Practical utilization of Special Education” on 8th June, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Shahid Ahmed Memon, Chairman, Pakistan Disabled Foundation was the keynote speaker.
- Worked on “Development of an Advocacy and Training Module/Toolkit on Inclusive Education” in collaboration with UNESCO and Department of Special Education, University of the Punjab, Lahore.2012

Dr. Hina Fazil

- Attended one day seminar on information technology for persons with disabilities on 15th October 2011 in celebration of white cane safety day, at University of Management and Technology, organized by the UMT.
- Attended one day conference on Globalization and gender equality on November, 2011 at Wheed Shaeed hall, Organized by the Department of gender studies, University of the Punjab ,Lahore.
- Attended seminar on the topic Nine eleven and world war three September,11, 2012 at Al-Razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. The worthy Vice-Chancellor, Prof. Dr. Mujahid Kamran was Key Note Speaker.
- Attended a seminar on the topic Defense status of Pakistan in celebration of Pakistan defense day on September,6 2012 at Al-Razi Hall Undergraduate Block, Quaid-e-azam campus ,Punjab University Lahore.

- Attended a seminar on “Programs of Helping Hands for Relief and Development (HHRD) in Department of Special Education, University of the Punjab, Lahore on 6th June, 2012. Mr. Khalid Naeem, former Director General of Special Education, Honorary Country Director (ICEVI), Advisor (Rehabilitation) HHRD was the keynote speaker.
- Attended a seminar on “Practical utilization of Special Education” on 8th June, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Shahid Ahmed Memon, Chairman, Pakistan Disabled Foundation was the keynote speaker.
- Worked on “Development of an Advocacy and Training Module/Toolkit on Inclusive Education” in collaboration with UNESCO and Department of Special Education, University of the Punjab, Lahore.2012

Dr. Rukhsana Bashir

- Attended a seminar on the topic Nine eleven and world war three September 11, 2012 at Al-Razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. The worthy Vice Chancellor, Prof. Dr. Mujahid Kamran was Key Note speaker.
- Attended a seminar on the topic Defense status of Pakistan in celebration of Pakistan defense day on September,6 2012 at Al-Razi Hall Undergraduate Block, Quaid-e-azam campus ,Punjab University Lahore.
- Attended one day conference on Globalization and gender equality on November, 2011 at Wheed Shaeed hall, Organized by the Department of Gender Studies, University of the Punjab, Lahore.
- Attended a seminar on “Programs of Helping Hands for Relief and Development (HHRD) in Department of Special Education, University of the Punjab, Lahore on 6th June, 2012. Mr. Khalid Naeem, former Director General of Special Education, Honorary Country Director (ICEVI), Advisor (Rehabilitation) HHRD was the keynote speaker.
- Attended a seminar on “Practical utilization of Special Education” on 8th June, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Shahid Ahmed Memon, Chairman, Pakistan Disabled Foundation was the keynote speaker.
- Worked on “Development of an Advocacy and Training Module/Toolkit on Inclusive Education” in collaboration with UNESCO and Department of Special Education, University of the Punjab, Lahore.2012

Mrs. Ghulam Fatima

- Participated in a “One Day Workshop on Research Skills Development” on April 21, 2012 held at Department of Political Science, University of the Punjab, Lahore
- Attended a special lecture on “ Sectarian Violence & Future of Pakistan” by Ms. Mariam Abou Zahab, researcher and teacher at INALCO, Paris, France, held at IER, University of the Punjab, Lahore on April 20, 2012
- Attended a seminar on “Differential achievements of students in assessment studies: searching for a causal variable” on 29th June, 2012. Prof. Dr. Hafiz Muhammad Iqbal, Dean, Faculty of Education, University of the Punjab, Lahore was the keynote speaker.

- Attended a seminar on “9 11 and World War 3” on September 11, 2012 organized by Academic Staff Association, University of the Punjab, Lahore, Pakistan. Prof. Dr. Mujahid Kamran, Vice Chancellor, University of the Punjab was the keynote speaker.
- Attended a National Conference on Human Rights, Local Culture and Globalization on Tuesday, March 13, 2012 organized by Institute of Social & Cultural Studies, University of the Punjab, Lahore.
- Attended an “International Child and Family Conference” with theme “Parenting: Practices and Implications” from 14- 15 October, 2011 held at College of Home Economics Lahore.
- Presented a paper as co-author on “Problems faced by students with hearing impairment in inclusive education at the post graduate level” in 2nd International Multidisciplinary Conference with theme Towards Better Pakistan organized by Sarhad University of Science & Information Technology, Peshawar, Pakistan on 24th -25th September, 2012.
- Presented a paper as co-author on “A correlational study of research students’ motivational goals and their perceptions about teachers’ practices at university level” in 2nd International Multidisciplinary Conference with theme Towards Better Pakistan organized by Sarhad University of Science & Information Technology, Peshawar, Pakistan on 24th -25th September, 2012.
- Presented a paper as principal author on “A study of life goals of persons with visual impairment” in 2nd International Multidisciplinary Conference with theme Towards Better Pakistan organized by Sarhad University of Science & Information Technology, Peshawar, Pakistan on 24th -25th September, 2012.
- Attended a seminar on “Programs of Helping Hands for Relief and Development (HHRD) in Department of Special Education, University of the Punjab, Lahore on 6th June, 2012. Mr. Khalid Naeem, former Director General of Special Education, Honorary Country Director (ICEVI), Advisor (Rehabilitation) HHRD was the keynote speaker.
- Attended a seminar on “Practical utilization of Special Education” on 8th June, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Shahid Ahmed Memon, Chairman, Pakistan Disabled Foundation was the keynote speaker.
- Worked on “Development of an Advocacy and Training Module/Toolkit on Inclusive Education” in collaboration with UNESCO and Department of Special Education, University of the Punjab, Lahore.2012

Dr. Samina Ashraf

- Attended a seminar on the topic Nine eleven and world war three September 11, 2012 at Al-Razi Hall Undergraduate block, Quaid-a-Azam campus, Punjab University Lahore. The worthy Vice-Chancellor, Prof. Dr. Mujahid Kamran was Key Note speaker.
- Attended a seminar on the topic Defense status of Pakistan in celebration of Pakistan defense day on September 6, 2012 at Al-Razi Hall Undergraduate Block,Quaid-e-Azam campus ,Punjab University Lahore.

- Attended one day conference on Globalization and gender equality on November, 2011 at Wheed Shaeed hall, Organized by the Department of gender studies, University of the Punjab, Lahore.
- Attended a seminar on “Programs of Helping Hands for Relief and Development (HHRD) in Department of Special Education, University of the Punjab, Lahore on 6th June, 2012. Mr. Khalid Naeem, former Director General of Special Education, Honorary Country Director (ICEVI), Advisor (Rehabilitation) HHRD was the keynote speaker.
- Attended a seminar on “Practical utilization of Special Education” on 8th June, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Shahid Ahmed Memon, Chairman, Pakistan Disabled Foundation was the keynote speaker.
- Worked on “Development of an Advocacy and Training Module/Toolkit on Inclusive Education” in collaboration with UNESCO and Department of Special Education, University of the Punjab, Lahore 2012.

INSTITUTE OF EDUCATION & RESEARCH

• Projects (ii) Newly Launched

Project Title	Authors Name	Sponsoring Agency	Duration	Amount
Impact of Cooperative Learning Intervention on Students' Achievement and logical reasoning	Dr. Nasir Mahmood	University of the Punjab	On going	0.2 million
A Study of Gaps Between Beliefs and Practices of Teacher Educators in B.Ed (Hons) and ADE Classrooms in Universities and Affiliated Colleges in Punjab	Prof. Dr. Mumtaz Akhter Prof. Dr. Rafaqat Ali Akabar Prof. Dr. Abid Hussain Ch. Dr. Muhammad Abaidullah	US-AID	On going	1.74 Million
Development of Reflective Practitioners: A case of New B.Ed (Hons) Classroom	Prof. Dr. Rizwan Akram Rana Dr. Muhammad Saeed Mrs. Aroan Hashmi	US-AID	One going	0.724 million

• Publications

Name of Author	Title of Paper/Article
Prof. Dr. Mumtaz Akhter	Concept of School Experience Programme Among Teachers for Quality Enhancement in Teacher Education. Journal of Research and Reflections in Education 6(1).
Dr. Ashi Zeshan and Dr. Aamir Hashmi	Impact of Changes in demographical shifts on business schools: Opinion of faculty and Management. Bulletin of Education and Research Vol. 33 No. 2

Name of Author	Title of Paper/Article
Dr. Aamir Hashmi and Dr. Ashi Zeshan Hashmi	Development and validation of aptitude test for secondary school mathematics students. Bulletin of Education and Research Vol. 34 No. 1
Dr. Aamir Hashmi and Dr. Ashi Zeshan Hashmi	Perception of secondary school teachers about corporal punishment: A barrier in developing teacher student relationship. The International Journal of Learning, USA Vol 18 Issue 12
Dr. Tahseen Mahmood	Emotional Intelligence and Transformative Leadership style of Principals in High School, International Journal of Asian economic and Social Society.
Dr. Tahseen Mahmood	Managerial Ethics in Islamic framework, International Journal of Business and Social Science.
Dr. Tahseen Mahmood	Intellectual Death, International Journal of Business and Social Science.
Dr. Tahseen Mahmood	Pupils' Ideas in Learning Concept of the Chemical Bonding among Pakistani Students, International Journal of Applied Science and Technology
Dr. Tahseen Mahmood	The Study of AID Dependency and External DEBT on Pakistan's Economy, Pakistan Economic and Social Review
Dr. Tahseen Mahmood	Entrepreneurial Intentions amount University students of Punjab Province of Pakistan, International Journal of Humanities and social Science (Special Issue)
Dr. Tahseen Mahmood	Role of Intelligence and Creativity in the academic Achievement of Studies, International journal of Physical and Social Sciences
Dr. Tahseen Mahmood	Teacher' as a leader and their Traits: Evidence from Secondary Level, International Journal of Physical and Social Science
Dr. Tahseen Mahmood	An Empirical Study of Family Back Ground and Entrepreneurship as Career Selection among University Students of Turkey and Pakistan, International Journal of Business and Social Science
Dr. Tahseen Mahmood	Frequency of Learned words of English as a Marker of Gender identity in SMS Language in Pakistan, Journal of Elementary Education
Dr. Tahir Mahmood & Mr. Tariq Hussain	Impact of Formative assessment on Academic Achievement of Secondary School Students, International Journal of Business and Social Science Vol. 3, No. 17
Dr. Tahir Mahmood & Mr. Tariq Hussain	Impact of Co-curricular Activities on Personality Development of Secondary School Students, International Journal of Humanities and Social Science Vol. 2 No. 18
Dr. Tahir Mahmood & Mr. Tariq Hussain	Decentralization and Educational Institutional Development A Case Study from Pakistan, International Journal of Humanities and Social Science Vol. 2 No. 22

Name of Author	Title of Paper/Article
Dr. Tahir Mahmood & Mr. Tariq Hussain	Analysis of Grade Three Students Performance in the Subject of English in Pakistan, American International Journal of Contemporary Research, Vol. 2 No. 11
Dr. Tahir Mahmood & Dr. Muhammad Saeed	Comparative Evaluation of Internal Efficiency of Teacher Education Institutional in Pakistan, International Researchers Vol. 1(4).
Dr. Muhammad Saeed	Problem in Public Sector Universities of Punjab, View of PhD Scholars, International Researchers 1(3).
Dr. Muhammad Saeed	Status of Physical Facilities in Government Schools of Punjab, Journal of Research & Reflection in Education, 5(2), 105-127 December 2011.
Dr. Muhammad Saeed	Ensuring Textbook quality through evaluation: An issue in Pakistan
TahirMehmood	Analysis of Grade Three Students' Performance in Subject of Social Science in Pakistan International Journal of Business, Humanities and Technology Vol. 2 No. 6; October 2012
TahirMehmood	Situation Analysis of Institutional Policies for Teacher Educators and Prospective Teachers International Journal of Humanities and Social Science Vol. 2 No. 24
Dr. Shaukat Ali Raza	Faculty Development Program for Universities of Pakistan. e-book LAP Lambert Academic Publishing
Dr. Shaukat Ali Raza	Students' evaluation of Frame Factors and Teaching Process: Implications for Educational Leadership. Journal of Management and Sustainability.
Dr. Shaukat Ali Raza	Investigating Service Quality Initiatives of Pakistani Commercial Banks. International Business Research,
Dr. Shaukat Ali Raza	Impact of Rain fall on Rural Poverty in Sindh. Asian Journal of Business and Management Sciences.
Dr. Abdul Qayyum Ch.	Does the Job Satisfaction Varies in Gender & Age: Analysis of Public and Private University Teachers of Pakistan, Elixir Leadership Management, 43 (2012). India
Dr. Abdul Qayyum Ch.	Is the Academic of the Child Influenced by the Teachers: A Case of Pakistani School Teachers? International Journal of Humanities and Social Sciences, USA Vol. No. 3, Feb 2012
Dr. Abdul Qayyum Ch.	Impact of Transactional and Laissez Faire Leadership Style on Motivation. International Journal of Business and Social Science, USA Vol. 2, 2012
Dr. Abdul Qayyum Ch.	An Analysis of Relationship between Occupational Stress and Demographics in University: The case of Pakistan. International Education Studies, Canada, Vol. 34, No. 2, 2012
Dr. Abudl Qayyum Ch.	The Relationship Between Occupational Stress and Job Satisfaction: The case of Pakistani Universities. International Education Studies, Canada. Vol. 5, No.3 2012.

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

- Attended:**

- Dr. Muhammad Saeed attended workshop entitled “Two Day Workshop for School & College Teachers on Awareness of HIV AIDS organized by UNESCO Islamabad.
 - Dr. Muhammad Saeed attended workshop entitled “National Seminar on Re-Searching Pre Service Teacher Education” organized by HEC in Collaboration with Pre-STEP Islamabad January 10-13, 2012.
 - Dr. Muhammad Saeed attended workshop entitled “Understanding Holy Quran Using Symbols” organized by Bait-ul-Quran, Shadman Lahore.
 - Dr. Muhammad Saeed attended workshop entitled “Dialogue on Continuous Professional Development” Organized by DSD in Collaboration with GIZ International.

- Organized by IER**

- Two days workshop on Critical Thinking and Peer Review for Year 3 and 4 Course Writers organized by Pre-Step in collaboration with IER, University of the Punjab, at Waheed Shaheed Hall, IER from May 18-19, 2012.
 - Seminar on Critical Thinking Skills organized by Pre-Step in collaboration with IER, University of the Punjab, at Waheed Shaheed Hall, IER on February 20, 2012.
 - National Research Seminar organized by Pre-Step in collaboration with IER, University of the Punjab, at Waheed Shaheed Hall, from January 10-13, 2012.
 - Three days conference to discuss University & College Collaboration: Planning for Action, organized by Pre-Step, Institute of Education and Research, University of the Punjab on March 12-14, 2012.
 - Three days workshop on developing research proposal Organized by Pre-STEP in collaboration with HEC at IER, University of the Punjab, Lahore from August 11-13, 2011.
 - Follow-up meeting for Writing Research proposal IER, University of the Punjab, at Waheed Shaheed Hall, from November 29, 30 & December 01, 2011.
 - Follow-up Meeting/Workshop to Develop Strategic Plan for Institute of Education and Research, University of the Punjab, from October 18-20, 2011.

- **Research Journals**

- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 33. No. 2, 2011.
 - Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 34. No. 1, 2012.

FACULTY OF ENGINEERING & TECHNOLOGY

CENTRE FOR COAL TECHNOLOGY

- **Research & Development – 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 continue throughout the year by mutual coordination of the faculty and students. 24 students have completed their research thesis under the supervision of senior faculty teachers. Moreover Director, Centre for coal technology participated in the Panel of experts for Punjab Power Development Board (Government of the Punjab) for the technical auditing of coal fired power plants that are to be installed in Punjab. About 300 samples of coal were tested at the Centre for coal technology and results has been used in the estimation of coal reserves of salt range and trans indus range by M/s SNOWDEN, an australian consulting firm hired by Punjab Govt. for the estimation of coal deposits of Punjab. Director, Centre for coal technology participated in meetings with M/s SNOWDEN and Punjab Govt. officials to discuss various issues.

- **Projects (i) Completed**

- Effect of moisture on grinding index (HGI) of indigenous coals.
- Effect of blending on grindability index (HGI) of indigenous and imported coals.
- Effect of coal rank on the grindability index (HGI) of some indigenous coals
- Design and fabrication of bubbling fluidized bed coal gasifier
- Heavy media separation of some indigenous coals.

- **(ii) Newly Launched**

The following projects with one year duration will be sponsored by Centre for Coal Technology

- Characterization of bottom ash coming from coal gasification plant at Mughal Steel Mills Lahore.
- Characterization of fly ash coming form coal gasification plant at Mughal Steel Mills Lahore
- Studies on strength of cement/ fly ash; cement/ fly ash/ sand and cement / sand building blocks. Fly ash obtained from Lakhra power plant.
- Studies on strength of cement/ fly ash; cement/ fly ash/ sand and cement / sand building blocks. Fly ash obtained from Olympia Chemicals, Khushab.
- Effect of addition of fly ash, obtained form Lakhra power plant, on the strength of concrete.
- Effect of addition of fly ash, obtained from Olympia Chemicals Khushab, on the strength of concrete.
- Thermogravimetric Analyzer (TGA) of some indigenous and imported coals.
- Effect of particle size, volatile matter, mineral matter and fixed carbon on the apparent density of indigenous coals.

- Design of a low NO_x coal fired burner sponsored by University of the Punjab , Lahore.
- Preparation of easily combustible briquettes from coke dust obtained from Pakistan Steel Mills, Karachi.
- Combustion and pyrolysis behaviour of some indigenous coals and gram sticks biomass.
- Preparation of Humic acid from indigenous lignite.
- Characterization and Thermogravimetric Analyzer (TGA) of corn colb.
- Removal of slags from surface of coal fired boilers by chemical treatment.
- Optimization of bubbling fluidized bed gasifier
- Agglomeration of coal fins using vegetable oil
- **Publications**
 - Shafqat Nawaz, "Impact of coal and rice husk on the quality and chemistry of cement", PIChE, Vol.40, no.1, 2012.
 - Javaid Akhtar, "A review on operating parameters for optimum liquid oil yield in biomass pyrolysis", Renewable Sustainable Energy Reviews, 16(7), 2012.
 - Javaid Akhtar, "Optimization studies for catalytic ozonation of cephalixin in a batch reactor using RSM & AMN", Journal of water supply research and technology, Accepted 19 October ,2012.
 - Shahid Munir, "Pakistani sugarcane bagasse as potential secondary fuel for NO_x reburning in large scale coal burning systems", Pak-UK coal conference, 3-5 July, 2012.
 - Shahid Munir, "Energy crises and its solutions", Pak-UK coal conference, 3-5 July, 2012.
 - Shahid Munir, "Energy challenges and research areas for young scientists", First Innovation Youth Workshop organized by National Academy of Young Scientist, 11-12 August, 2012, ICET, University of the Punjab, Lahore.
 - Khurram Shahzad, "Burning of Pakistani coal in CFB and radial heat transfer investigations", Pak-UK Coal Conference, 3-5 July, 2012.
 - 8. Sumaira Kanwal, "Effect of moisture and coal blending on hardgrove Grindability index of pakistani coal", ICES 2012 conference, 28th - 29th Feb., 2012, ICET, University of the Punjab, Lahore.
 - Sumaira Kanwal, "Upgradation of Dandot coal by heavy media separation", ICES 2012 conference, 28th - 29th Feb., 2012, ICET, University of the Punjab, Lahore.
- **Conferences, Seminars and Workshops etc.**
 - A national seminar on "Energy crisis and its solutions" was organized on 13th June, 2012.
 - A welcome and farewell party was organized

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Director of the Centre, Prof. Dr. Shahid Munir is a co-investigator of the International Strategic Partnership in Research Education (INSPIRE) Programme funded by British Council and Higher

Education Commission Pakistan to investigate the co-combustion of Pakistani coal with Pakistani biomass. As a result of the collaboration with University of Leeds and University of Sheffield, an international conference, UK Pakistan Coal Conference was organized in Leeds UK from 3rd-5th July 2012.

- **Funding Grants for R&D**

- University of Punjab, Lahore
- From departmental coal testing earning

COLLEGE OF ENGINEERING & EMERGING TECHNOLOGIES

- **Research & Development – An Overview**

- In the academic year 2011-12, the focus was on the establishment of new labs and up-gradation of the existing labs. In the Department of Metallurgy and Materials Engineering, in addition to the existing equipment related to Foundry, Metallography, Corrosion Testing etc., new equipments to meet the requirements of currently introduced subject “Welding Engineering” have been purchased and made functional to facilitate the students to get on-hand training on the said equipments, however, request for construction of lab has been submitted to University. Similarly, an important state of the art equipment “Gamry Instrument” of Corrosion lab was repaired from USA and made functional for the research work. A newly bought optical microscope with image analysis software was made functional. A one day training workshop on the microscope was arranged for the faculty members of Department of Metallurgy and Materials Engg. The Department of Electrical Engineering has well established labs for the robotics, wireless communications, data structure and analysis etc. The requests for the development of new labs in CEET have also been submitted. Similarly, Department of Polymer Engineering & Technology has well established well equipped with synthesis, characterization and processing facilities. The characterization labs have state of the art equipments covering the fields of thermal, spectroscopy, paint, membrane, mechanical, chromatography, processing, viscoelasticity and rheology. Synthesis platform has facilities from lab scale synthesis to pilot plant scale production.

- **Projects (ii) Newly Launched (in progress)**

- Modification of passive films on Titanium alloys for biomedical applications
- Development & application of HA Nano particles their coating on 316L orthopedic implants & electrochemical characterization for biocompatibility
- Biodegradable polymers synthesis and characterization
- Development of Dye Sensitized Solar Cell
- Photocatalytic behavior of TiO₂ nanotubes and generation of hydrogen gas for fuel

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

- Anti-Corrosion Behavior of Ni/Ti₂N Composite coated Sintered NdFeB permanent magnets
K.M.Deen, A.Ali, A.Ahmad, R.Ahmad

- 18th International Corrosion Congress (ICC) Conference, Perth Convention Exhibition Centre, 20-24 November, 2011, Perth, Western Australia, Australia
- Engineering Failure analysis in chemical process Industries
K.M.Deen, I.H.Khan, R.Ahmad, M.A.Virk
International Conference on Engineering Conference, ICES 2012, Institute of Chemical Engineering and Technology, University of the Punjab, February 28-29, Lahore, Pakistan
 - Electrochemical comparison of API X-70 Steel Surfaces in Base oil
M.Z.Khalid, K.M.Deen, F.Hussain, R.Ahmad, M.A.Butt
International Conference on Engineering Conference, ICES 2012, Institute of Chemical Engineering and Technology, University of the Punjab, February 28-29, Lahore, Pakistan
 - Investigating the effect of welding on Electrochemical Behavior of SA516 (Grade 70)
G.Abbas, K.M.Deen, F.Hussain, R.Ahmad
International Conference on Engineering Conference, ICES 2012, Institute of Chemical Engineering and Technology, University of the Punjab, February 28-29, Lahore, Pakistan
 - Oxidation behavior of Yttria stabilized Thermal Barrier coatings on mild steel in Artificial sea water
M.Farooq, K.M.Deen, S.Naseem, S.Alam, R.Ahmad
National Science Conference; Roadmap of Cutting Edge Technologies, Organized by Pakistan Academy of Sciences, January 10-12, 2012
 - Electrochemical & Metallurgical Characterization of 316L Stainless Steel Weldment in Physiological Solutions
A.Farooq, K.M.Deen, I.H.Khan
National Science Conference; Roadmap of Cutting Edge Technologies, Organized by Pakistan Academy of Sciences, January 10-12, 2012
 - Effect of Heat Treatment Cycles on Electrochemical behavior of Aluminum 2219
M.A.Fahad, K.M.Deen, M.Kamran, I.H.Khan
National Science Conference; Roadmap of Cutting Edge Technologies, Organized by Pakistan Academy of Sciences, January 10-12, 2012
 - Effect of Surface Profile on Electrochemical behavior of API X-70 in Simulated crude Oil Environment
M.Z.Khalid, K.M.Deen, F.Hussain, R.Ahmad, M.A.Butt
National Science Conference; Roadmap of Cutting Edge Technologies, Organized by Pakistan Academy of Sciences, January 10-12, 2012
 - Corrosion & Corrosion Damages in Practice
K.M.Deen, A.Farooq, I.H.Khan, R.Ahmad
3rd International conference on „CORROSION“ Corrosion Management & strength of Pipeline Network, May 17, 2012, Marriott Hotel Karachi, Pakistan

- Characterization of FBE coating exposed to artificial sea water
K.M.Deen, A.Farooq, , I.H.Khan, R.Ahmad
Pakistani Chapter of National Association of Corrosion Engineers (NACE), Corrosion Control Centre, SNGPL on World Corrosion Awareness Day (24th April 2012) held at SNGPL, Lahore, Pakistan
- Advance Electrochemical Techniques for Corrosion Testing
K.M.Deen, I.H.Khan, R.Ahmad
Corrosion & Corrosion Control Symposium 2011, October 27, 2011, University of the Punjab, Lahore, Pakistan
- Gate-bias-induced tuneable spectral response of silicon p-i-n photodiode with enhanced UV sensitivity
Abid, K. and F., Rahman,. UK Semiconductors 2012.
- High Responsivity Lateral Silicon p-i-n Photodiodes with single and dual MOS Gate structures exposed to visible and high energy radiation
International Multi-topic Conference,
Abid, K. Muhammad Azhar Naeem and F., Rahman.
- Silicon Based Self-tuneable Micro-spectrometer - A Possibility
International Conference and Workshop on Nano-Science and Technology
K. Abid, M. A. Naeem and F. Rahman, , QAU, Islamabad, October 1-5, 2012
- Grating-Integrated Semiconductor Polarization Detector
13th National Symposium on Frontier in Physics
K. Abid, M. A. Naeem, J. Akbar, and F. Rahman, University of Peshawar, 19th December to 21st December 2012.
- 40 GHz, Passively Mode Locked Lasers
13th National Symposium on Frontier in Physics ,
J. Akbar, M. Haneef, S. Arif, S. Muhammad, K. Abid, University of Peshawar, 19th December to 21st December 2012.

Conferences/Seminars/Symposiums Organized

- Metallography Competition 2012 was organized by Department & Materials Engineering, CEET held in March 2012.

• Research Journals

The articles published by the faculty members of Department of Metallurgy and Materials Engg are listed below:

- W.Q.Khan, K.M.Deen, K.M.Ghauri, R.Ahmad, T.Tabish, S.Atiq, H.Zaigham and L.Ali, Corrosion Behavior of Ti-Ta-Sn alloy systems in 0.9% NaCl Solution , Materials & Corrosion, Volume 69, No. 9999, 2012

- Nauman A. Siddiqui, M. Zubair Khan, Azhar Munir, K.M. Deen, M. Aftab Amin Failure investigation of wheel gear hub assembly of an aircraft, Engineering Failure Analysis, Volume 22, June 2012, Pages 73-82 (2011)
- K.M. Deen, I.H. Khan, R. Ahmad, Z.H. Rizvi, J. Ahmad, Remaining life assessment of platforming reactor vessels, , Engineering Failure Analysis, Volume 18, Issue 4, June 2011, Pages 1247-1252
- K.M.Deen, M.A.Virk, I.H.Khan, K.M.Ghauri, Failure of Crude Oil Heater Tubes, Journal of the Pakistan Institute of Chemical Engineers, Volume 39, No. 1 (2011)
- H.Khurshid, K.M.Deen, S.L.Ahmad, R.Ahmad, Localize corrosion study of 316L bio-implant in simulated body fluids, , Science International, vol. 23, No.4, 2011
- M.Zafar, M.Ali, S.M.Khan, T.Jamil, M.T.Z. Butt, Effect of Additives on the properties and performance of cellulose acetate derivative membranes in the separation of isopropanol/water mixture, Desalination 285;2012 P359-365;Elsevier, USA
- M.Z. Khalid, F.Hussain, M. T. Z. Butt, and M.A. Butt, To study the Corrosion Tendency of API X-70 in Base oil Environments, Engineering News, J. of Pakistan Engineering Congress, Jan-Jun 2012, Vol: 44, No. 3-4, P88-95, Pakistan.

The articles published by the faculty members of Department of Electrical Engg are listed below:

- M. K. Samee and J. Götze: Channel Equalization using Watermark as a Training Sequence, Kleinheubacher Tagung-2010, Miltenberg, Germany, October 2010 (published in Advances in Radio Science, Vol. 9, (ISSN: 1684-9965), 2011).
- M. K. Samee and J. Götze: CDMA Based Reversible and Blind Watermarking Scheme for Images, International Conference on Intelligence and Information Technology (ICIIT 2010), Lahore, Pakistan, October 2010 (will be published in International Journal of Computer and Communication Engineering (IJCCE, ISSN: 2010-3743), 2012).
- M. K. Samee and J. Götze: Reduced Reference Image Quality Assessment for Transmitted Images Using Digital Watermarking, 7th International Symposium on Image and Signal Processing and Analysis (ISPA 2011), Dubrovnik, Croatia, September 2011. (included in IEEE Xplore).
- S. Altous, M. K. Samee, J. Götze: Blind Quantization Ratio Estimation for JPEG Images Using Digital Watermarking, 53rd International Symposium ELMAR-2011, Zadar, Croatia, September 2011. (included in IEEE Xplore)
- S. Altous, M. K. Samee, J. Götze: Reduced Reference Image Quality Assessment for JPEG Distortion, 53rd International Symposium ELMAR-2011, Zadar, Croatia, September 2011. (included in IEEE Xplore)
- M. K. Samee and J. Götze: CDMA Based Blind and Reversible Watermarking Scheme for Images in Wavelet Domain, 19th International Conference on Systems, Signals and Image Processing (IWSSIP 2012), Vienna, Austria, April 2012. (included in IEEE Xplore)

- M. K. Samee and J. Götz: Authentication and Scrambling of Radio Frequency Signals Using Reversible Watermarking, 5th IEEE International Symposium on Communications, Control and Signal Processing (ISCCSP 2012), Rome, Italy, May 2012. (included in IEEE Xplore).
- Abid, K., and F. Rahman, Gated Lateral p-i-n Junction Device for Light Sensing. *Photonics Technology Letters*, IEEE. 23(13) (2011): p. 911-913.
- Abid, K., and F. Rahman, High spectral responsivity gated silicon photodiodes. *UK Semiconductors 2011*, University of Sheffield, UK. p. 117.
- Abid, K., A.Z. Khokhar, and F. Rahman, High responsivity silicon MOS phototransistors. *Sensors and Actuators A: Physical*, 172(2) (2011) P. 434-439.
- Chee Heng Teo, Nireeksha S. Karode, Abid, K., F. Rahman, Interfacial behaviour of polyaniline as an organic electronic material. *Journal of physics and chemistry of solids*. 72 (2011) page 886–890.
- Abid, K., Xingshang Wang, A. Z. Khokhar, S. Watson, S. Al-Hasani and F., Rahman, Electrically tuneable spectral responsivity in gated silicon photodiodes. *Applied Physics Letters*. 99, 231104 (2011); doi: 10.1063/1.3665613.
- H Raza, *Graphene Nanoelectronics: Metrology, Synthesis, Properties and Applications*, Springer, Berlin/Heidelberg/New York, 2012.
- H Raza, Zigzag graphene nanoribbons: bandgap and midgap state modulation, *Journal of Physics: Condensed Matter* 23, 382203, 2011.
- H Raza, Edge and passivation effects in armchair graphene nanoribbons, *Physical Review B* 84 (16), 165425, 2011.
- TZ Raza, JI Cerdá, H Raza, Three-dimensional extended Hückel theory-nonequilibrium Green's function spin polarized transport model for Fe/MgO/Fe heterostructures, *Journal of Applied Physics* 109 (2), 023705, 2011.
- J Shaw, YW Zhong, KJ Hughes, TH Hou, H Raza, S Rajwade, J Bellfy, et al., Integration of Self-Assembled Redox Molecules in Flash Memory Devices, *IEEE Transactions on Electron Devices*, 58, 826, 2011.
- H Raza, DR Andersen, Plasmon dispersion in semimetallic armchair graphene nanoribbons, *Physical review b* 85 (7), 075425, 2012.
- A Umair, H Raza, Controlled synthesis of bilayer graphene on nickel, *Nanoscale research letters* 7 (1), 437, 2012.
- TZ Raza, H Raza, Independent-Band Tight-Binding Parameters for Fe-MgO-Fe Magnetic Heterostructures, *IEEE Transactions on Nanotechnology*, 10, 237, 2011.
- J Lee, JJ Cha, S Barron, DA Muller, RB Van Dover, EK Amponsah, TH Hou, H Raza et al., Stackable nonvolatile memory with ultra thin polysilicon film and low-leakage (Ti,Dy)_xO_y for low processing temperature and low operating voltages, *Microelectronic Engineering* 88 (12), 3462-3465, 2011.

- M. F. Hanif, P. J. Smith, D. P. Taylor and P. A. Martin, "MIMO Cognitive Radios with Antenna Selection," submitted to the IEEE Transactions on Wireless Communications (minor revisions, May 2011).

RESEARCH COLLABORATION

The Department of Metallurgy & Materials Engineering, CEET has established collaboration with following institutions:

- **Indigenous**
 - Centre for Advance Studies in Physics, Govt College University, Lahore
 - Center for Excellence in Solid State Physics, University of the Punjab, Lahore
- **Foreign Linkages**
 - Prof. Wasseem Haider, Assistan Professor, University of Texas Pan American, USA
 - Natural Gas Metering in SNGTI 2012

DEPARTMENT OF TEXTILE ENGINEERING & TECHNOLOGY

- **Conferences, Seminars and Workshops etc.**
 - Workshop conducted on "Importance of Global Textile Standards & Compliance Requirements" on 5th April, 2012 in collaboration with Ministry of Textile Industry, Textile Testing International (TTI) and University of Management & Technology (UMT)

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **Research & Development – 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) waste water treatment.
- **Projects (ii) Newly Launched**
 - The faculty is motivated and facilitated to apply for grants from local and foreign agencies. The details of few of the projects initiated with the help of HEC, University of the Punjab and SNGPL are given below:

Proaject Title	Funded by	Approved Amount	Approved Date
Catalytic Hydrodechlorination of Chlorophenols	Higher Education Commission	Rs. 992,585/-	24-05-2011
Fast Pyrolysis of Agricultural Residues for the production of Bio Oil /Liquid Fuel	Punjab University	Rs. 1.360 million	07-02-2011
Biogas Techno-economic feasibility for the production of 5 MMCFD Biogas Plant	SNGPL	-----	----
Comparative Study of Black Powder test with the analysis report of Dr. Johon Smart from 36" Qadir Pur Bhong Pipeline Segment	SNGPL	-----	----

Proaject Title	Funded by	Approved Amount	Approved Date
Provision of Technical Specifications, Supplier Details and Mechanism of Iso Kinetic Kit to SNGPL	SNGPL	-----	----
Optimization of the amount of Inhibitor to be injected for protection of Gas Pipeline transmitting gas with high sulphur contents to Engro Power.	SNGPL	-----	----
Elaboration of the route path / process / mechanism of Solid Particles especially clay and Quartz detection in the gas pipe line.	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 are given below:

- A. Ijaz, S. M. Irfan, D. M. H. Kee, M. Awan , “Impact of TQM practices on operational performance of Public Hospitals: A study of Public Hospitals in Pakistan”, International Symposium on Business and Management (ISBM 2012) Hong Kong
- A. Ijaz, S.M. Irfan, D. M. H. Kee, M. Awan, “ Improving operational performance of public hospital in Pakistan: A TQM based approach”, World Applied Sciences Journal 19 (6):, 2012, 904-913.
- A. Ijaz, S. M. Irfan, M. M. Farooq , “Patient Satisfaction and Service Quality of Public Hospitals in Pakistan”, an Empirical Assessment, Middle-East Journal of Scientific Research 12 (6): 870-877, 2012
- A. Ijaz, Farhan Aslam, Hakeem-ur-Rehman, S. M. Irfan, “ Implementation of Total Quality Management tools and techniques”, A case study of fried peanut processing plant, Sci.Int.(Lahore), 24(4),475-486, 2012 ISSN 1013-5316,CODEN: SINTE 8
- M. Tahir, M Saleem, N.A. Akhtar, J. R. Khan, M Siebenhofer, “Developing Products and Resource Recovery from Industrial Process Waters and Wastewaters”, 12th AIChE Annual Meeting, Abstract
- W.A. Khan, M.S. Tahir, K. Shahzad, M. Saleem, NA Akhtar , “Burning of Pakistani (Salt Range) Coal in a Circulating Fluidized Bed and Radial Heat Transfer Investigations”, UK-Pakistan Coal Conference 2012, Leeds, UK, 32
- M. Saleem, G. Krammer , “On the Stability of Pulse-Jet Regenerated-Bag Filter Operation”, Chemical Engineering & Technology (IF 1.394) 35 (5), 904-910
- M. Saleem., M. S. Tahir, G. Krammer , “Experimental measurement of axial gas flow distribution in pulse-jet bag filter”, 11th World Filtration Congress, Graz, Austria
- M. Saleem, G. Krammer, R. U. Khan, M. S. Tahir , “Influence of operating parameters on cake formation in pilot scale pulse-jet bag filter”, Powder Technology (IF 2.009) 224 (July 2012), 28-35

- M. S. Tahir, M. Saleem, S.R. Malik, J.R. Khan, "UV-radiation in Wet-tube Electrostatic Precipitator (WESP)", International Conference on Engineering Sciences, Lahore-Pakistan
- M. Saleem, G. Krammer, M.S. Tahir, "Measurement and Simulation of Axial Velocity in a Filter Bag", Chemical Engineering & Technology (IF 1.394) 35 (00), 1-10
- M. Saleem, G. Krammer, M. Suleman, "Effect of Operating Parameters on Resistance Parameters of Filter Media and Limestone Dust Cake for Uniformly Loaded Needle Felts in a Pilot Scale Test Facility at Ambient Conditions", Powder Technology (IF 2.009) 228 (September 2012), 100-107
- **Conferences, Seminars and Workshops etc.**
 - Institute of Chemical Engineering and Technology organized International Conference on Engineering Sciences ICES-2012 in Feb 2012.
- **Research Journals**

Following two journals are 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 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.
- **Funding Grants for R&D**
 - Faculty at the institute actively participates in R & D activities. Every year faculty earns significant research grant from Punjab University Research Grant. Recently 08 faculty members got University of the Punjab annual research grant. Three of the faculty members have got research grants from HEC and DAAD.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **Research & Development – An Overview**
 - Ph.D. in TQM program has been re launched after a gap of 8 years. 6 Students have completed first term of course work. 45 MS TQM thesis supervised in this Institute.
- **Projects (i) Completed**
 - Dr. Muhammad Usman Awan has successfully completed research project about quality in higher education institutions funded by University of the Punjab.
- **(ii) Newly Launched**
 - Two Lecturers of the Institute have been awarded research grants by the University of the Punjab.

- **Publications**

- Awan, M.U., Asif, M., Ahmad, N. and Khan, M.K. (2011), "A model for Total Quality Management in Higher Education". The paper has been accepted for publication in 2012 in an impact factor journal "Quality and Quantity".
- Rehman, H., "Implementation of Total Quality Management Tools and Techniques: A Case Study of Fired a Peanut Processing Plant", Journal of Science International (accepted for publication).
- Mr. Hakeem-ur-Rehman, Application of Six Sigma at Cell Site Construction: A Case Study, Asian Journal on Quality (Emerald Article).

- **Research Journals**

Institute publishes two research journals.

- Journal of Quality & Technology Management is recognized by HEC in category X.
- Journal "International Journal on Quality & Innovation is published by international published Inter Science.

OFFICE OF RESEARCH, INNOVATION & COMMERCIALIZATION (ORIC)

- **Operation of ORIC**

- A separate Office of Research, Innovation & Commercialization (ORIC) was established at Punjab University to develop, expand, enhance and manage the University's research programs and to link research activities directly to the educational, social and economic priorities of the university and its broader community. The office is also responsible for assuring that the quality of research reflects the highest international standards of the university among the world's best research institutions.

- **Functions of ORIC**

- The main aims of Office of Research, Innovation & commercialization (ORIC) are as follows: Identify research grant & create particularly opportunities for faculty to apply. Facilitate faculty to apply for research grants. Legal, administrative and financial management support of research grants. Support commercialization, licensing, etc. of the University research.

- **Establishing of ORIC**

- Research Office was established at University of the Punjab with effect from April 2010 in compliance of the directive of the Vice Chancellor; as at present, Research Office has now been renamed as "Office of Research Innovation & Commercialization" (ORIC), with effect from January 2011. The Office of Research, Innovation and Commercialization (ORIC) University of the Punjab has been notified by Higher Education Commission (HEC), Islamabad on 01.01.2011.

- **Budget of ORIC**

- Allocation : 2.650 million
- Posts : 1.2144 million

- Higher Education Commission (HEC) has allocated 15% share to ORIC from the grants awarded to the projects of Punjab University faculty funded by HEC.

- **Activities**



Invention to Innovation Summit on 18th June 2012

- **Workshops/ Seminars/ Video Conferences/ Training courses organized by ORIC**

- Workshops on “Qualitative Research using NVIVO 9 Software” conducted on 17th March, 2012.
- Workshop on “HEC Plagiarism Policy and Turnitin Software” held on 23rd April, 2012.
- A Video Conference on the “Intellectual Property Rights Protection, Patent drafting and Prosecution-Research towards Commercialization” held on 11th May 2012.
- Workshop on “Financial Modeling using MS Excel Advanced Tools” held on 19th May 2012.
- A Summit “Invention to Innovation Summit” held on 18th June 2012.
- Workshop on “Computerized Accounting using Peachtree Quantum” held on 7th July 2012.
- Workshop on “Qualitative Research with “NVivo 9” Software (Hands on practice)” held on 7th July 2012.
- A Video Conference “Launching ceremony of phase-V, Pakistan- United States Science & Technology Cooperation Program” held on 5th September 2012.
- A Seminar on “Platform for Bridging Academia- Industry Linkages” held on 20th September 2012.
- Workshop on “Quantitative Data Analysis using SPSS” held on 29th September 2012.
- On the advice of worthy Vice Chancellor, Director and ORIC staff of Punjab University participated in a 5 Days (January 23-27, 2012) extensive training sessions on “Capacity Building for ORIC’s Managers” organized by HEC and British Council at NUST, Islamabad. The other

participants were ORIC officials from 13 different Universities of Pakistan. The core objectives of this workshop were to develop the understanding of significance of Intellectual Properties (IP) in commercialization, Technology transfer process, setting up the technology incubation centers, Proposal and report writing for the purpose of availing the funding opportunities. The platform has provided an excellent opportunity for ORIC office of Punjab University to strengthen the research culture in Punjab University in line with the research vision of worthy Vice Chancellor.

- **Future Targets:**

ORIC is preparing a database of all the research activities including existing and new research projects, contractual/ commercial research activities, research output in terms of publications, products, patents, etc. and information of research meetings/ conferences organized in each academic department of the University. Research focal persons (RFP) from each academic unit have been identified. The major functions of Research Focal Persons are to coordinate the following activities through the head of academic unit with the ORIC.

- To provide the necessary information about research activities in his/ her academic unit. These activities may include new and existing research projects, contractual/ commercial research activities, and research output in terms of publications, products, patents and information of research meetings / conferences, organized.
- Participate in the meetings, training sessions, and other activities notified by the ORIC.
- Disseminate the information about new research funding opportunities communicated by the ORIC to other fellow faculty members/ researchers through e-mails, letters, circulars, etc. through the head of his/ her academic unit.
- To prepare Research Activity Performa for each new and existing research projects through the head.
- To save time of our faculty members/ researchers; the ORIC encourages to e-mail their Research Activity Performa (RAP) on the official e-mail address of Office of Research Innovation & commercialization (ORIC) is placed on Punjab University website.

Office of Research Innovation & Commercialization is relatively a new function / department. HEC has recently provided grant for building its own infrastructure and work is in process in this regard of building its own offices.

FACULTY OF ISLAMIC STUDIES

DEPARTMENT OF ISLAMIC STUDIES

- **Projects (i) Completed**

- Concept of Nafs in Quran and Modern Psychological Thought

- **(ii) Newly Launched**

- Quranic Concept of Religion

- **Publications**

Prof. Dr. Hafiz Mahmood
Akhtar

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Dr. Tahira Basharat

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Dr. Muhammad Saad Siddiqui

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Dr. Ghulam Ali Khan

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A Social Custom "VANI" introduction and critical analysis.

Dr. Ihsan ur Rehman Ghauri

Orientalistic views on social status of the messenger's (PBUH)
life at Makkah a critique.

Dr. Shahida Parveen

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Role of Women in the Development of Scholarly tradition

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Mr. Asim Naeem

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

The Department conducted the following three national conferences and one international seminar during the period in question:

- "Tadrees Uloom-e-Islamia Kay Maayar ke Behtree aur Masaael o Tajaaweez"
- "Akhlaqi Adab aur Amn-e-Aalam ka Chellange"
- Seerat un Nabi Conference
- Saudi Arab main Muqem Pakistani Talba kay liyay Seminar"

- **Research Journals**

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

DEPARTMENT OF URDU ENCYCLOPEDIA OF ISLAM

- **Projects (ii) Newly Launched**

Dr. Manzoor Akhtar Tehsin Feraqi

- Six Persian Verse collections of Qudrat-allah Baligh, Contemporary of Sauda, in manuscript form. Editing and annotations in process.
- Persian Divan of Amir Minai (Manuscript), Ready for Press.
- Selected Poems of N.M. Rashed (In the Process of publication). Edited and annotated.

- **Publications**

Dr. Mahmood-ul-Hassan Arif

- Dr. Mahmood-ul-Hassan Arif, Mashaheer Banaam Moulana Sameeul Huque (The letters of the well known persons, in the name of Moulana Samiul Huque, in the monthly Magazine, Al-Huqq, published by Darul-Uloom Haqqania, Akoora Khatak, District Pishawar, KPK
- The Dialogue in the Era of the Khulafai Islam, published in the Six Montly Journal of the Uloom Islamia, International, vol. 8, Serial No. 15,16, published at Karachi, October 2013, pp. 77-112.
- The Tradition of Mukalma, in the reign of the Holy Prophet, published in the Oriental College Magazine, vol. 66, Serial No. 9, ISS No. 199-7007, December 2011, p. 55-66.
- The Seerat Nigaree in the reign of Tabeen, in the "Jihatal Islam", vol. 5, November 2011, pp. 63-83, published by the Department of Islamic Studies, P.U. Lahore.

Dr. Shamim Roshan Ara

- Maulana Khair Mohammad, Hayat & Khidmat, Jamia, Dec. 2011, Jamia Millia Islamia Delhi, India.
- Sayid Hajwari Ka Phalsafa Tasawaf, Jamia, Dec. 2011, Jamia Millia Islamia Delhi, India.

Dr. Hafsa Nasreen

- 'Maslihat-e-Mursila': A source of Fiqh-e-Islami, in Fiqh-e-Islami, Karachi, September 2012.
- "A Study of Foreign words and dialectual variations in the speech of Prophet Muhammad (p.b.u.h.)", in Maarif, Azam Gadh, India, March, 2012.

Dr. Manzoor Akhtar Tehsin Feraqi

- Annemarie Schimmel Bahaisiat Ghalib Shanas, Mabahis-I, June 2012.

- Mustashriqin Ka Usloob-e-Seerat-Nigari aur Abdul Majid Daryabadi, Tehqiq Nama (HEC Approved Journal No. 11), July 2012.
- Abdus-Sattar Siddiqi - Namwer Mahir-e-lisaniyyat, Teh Rus Mohaqqiq, Majalla-Armaghan, Vol.I, No.I, Deptt. of Urdu, Jamia Millia, New Delhi, India, 2012.
- Angraizi Tarjuma-e Kashf-al-Mahjub Per Aik Nazar, Maarif-e-Hujweria, Vol I, No. 1, June 2012.
- Ittehad-i-Aalam-Islami Fikr-e-Iqbal Ki Roshni Mein, Dawah, Islamabad, April-May 2012.
- Pakistan Mein Ghalib Shanasi, Makhzan, vol. 12, No. 1, Jan-June 2012.
- Abdul Majid Daryabadi and Orientalists' Biographies of the Holy Prophet (PBUH), Oriental College Magazine (HEC Approved Journal), vol. 87, No.2, 2012.
- Urdu Afsana - Chand Taassurat, Chand Sawalat, Nigharshat Alhamra Publications, LAC, 2012.
- Shahzad Ahamed Ki Yad Mein, Nawa-e-Waqt, Ang. 8, 2012.

Books:

- Shakh-e-Zaryab, Alhamd Publications, Lahore 2012
- Ghalib-Fikro-o-Farhang, Ghalib Institute, Nai Delhi, India, 2012.

Afzal Haq Qarshi

- Afzal Haq Qarshi, Muhammad Suheyl Umar and Tahir Hameed Tanoli. Essays of Dr. Javed Iqbal: Studies in Iqbal's Thought and Philosophy. Lahore: Iqbal Academy, 2012.
- Afzal Haq Qarshi, Muhammad Suheyl Umar and Tahir Hameed Tanoli. Intellectual Legacy: Essays by Dr. Javed Iqbal on Academic, Literary, Educational Issues, Political Thought and Pakistan. Lahore: Iqbal Academy 2012.

• Conferences, Seminars and Workshops etc.

Dr. Mahmood-ul-Hassan Arif

- Dr. Mahmood-ul-Hassan Arif, participated in the National Seminar entitled: "Dialogue on basis, Foundations of Religion, possibilities, benefits and suggestions under the Scope of the Searatulnabi" under auspicious Wifaqi, Uloom Islamia held at the University for Arts, Science and Technologies, Karachi, November, 2011.
- Dr. Mahmood-ul-Hassan Arif, participated and presented article in the National Conference entitled "Human Being Creation Substance in Quranic Teaching", held at Science and Humanities, Department of National University of Computer and Emerging Sciences, Karachi, on September, 10,11,2012.
- Dr. Mahmood-ul-Hassan Arif, participated and presented an article in the National Conference, on the Literature of Morality of the sub-continent, organized by the International League of Islamic Literature, at Sheikh Zayid Islamic Centre, Quaid-i-Azam Campus, P.U. Lahore, on April 12, 2012.

Dr. Shamim Roshan Ara

- Study of Iqbal at SZIC, P.U., on 9-11-2012.

- Concept of Shahadat at Law College P.U., on 1-1-2012.

Dr. Hafsa Nasreen

Attended and Presented Papers in:

- Seminar entitled: "The Mystical Literature of Subcontinent" held at Sheikh Zayed Islamic Centre, P.U., on 12-04-2012. Topic of Article: "The Ethics of Hinduism"

Attended:

- "Concept of Shahadat" at Law College, P.U. on, 01-01-2012.
- "Study of Iqbal", at SZIC, P. U. on 09-11-2012.
- International Conference on "Ideal Human and Ideal Society in the Thoughts of M. Fathullah Gulen" at P. U., on 20-21st Nov. 2012.

Dr. Manzoor Akhtar Tehsin Feraqi

- Participated in "Ghalib Symposium" held under the auspices of Quaid-e-Azam Library, Lahore and delivered a lecture on Ghalib's literary achievements, Feb. 29, 2012.

Afzal Haq Qarshi

- Afzal Haq Qarshi, Makateeb Baba-e-Urdu banam Dr. Syed Abdullah. Mabahis-I Jan-June 2012.

SHEIKH ZAYED ISLAMIC CENTRE

• Publications

Dr. Muhammad Ijaz, Director, Sheikh Zayed Islamic Centre

- Topic: , Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2011, Volume No. 26, Issue No.36, Page No. 67 to 88.
- Topic: Islamic Modes of Financing, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 33 to 40.
- Name: Dr. Muhammad Abdullah
- Associate Professor, SZIC
- Topic: The Role of Faith in Developing A Sense of Responsibility and Accountability, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2011, Volume No. 26, Issue No.36, Page No. 35 to 46.
- Topic: Trends of Nazm-Al-Qurān in Tafsīr Literature, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 55 to 70.

Dr. Hafiz Abdullah, Assistant Professor, SZIC

- Topic: The Role of Faith in Developing A Sense of Responsibility and Accountability, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2011, Volume No. 26, Issue No.36, Page No. 35 to 46.

- Topic: , Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 55 to 70.

Name: Dr. Abdul Wafa Mahmood, Assistant Professor, SZIC

- Topic: , Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 359 to 372.

Dr. Ishtiaq Ahmad Gondal, Assistant Professor, SZIC

- Topic: Poverty Reduction and Muslim World, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 71 to 78.

Name: Dr. Hafiz Muhammad Abdul Qayyum, Assistant Professor, SZIC

- Topic: The End of Ideology and the Rise of Islam, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 41 to 54.

Name: Dr. Hafiz Abdul Basit Khan, Assistant Professor, SZIC

- Topic: , Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2011, Volume No. 26, Issue No.36, Page No. 131 to 146.
- Topic: (, Journal: Al-Adwa, SZIC PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2012, Volume No. 27, Issue No.37, Page No. 55 to 70.

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

Sheikh Zayed Islamic Centre organized different seminars during October 01, 2011 to September 30, 2012 according to the following detail:

- Date 25-11-2011 to 26-11-2011
Speakers Dr. Safeer Akhtar, Mr. Ishaq Bhatti, Dr. Hafiz Mahmood Akhtar
Topic Baraysakheer main Aloom e Islamia ki Tarikh
- Date 12-12-2011
Speakers Dr. Asia Shabbir Mansoori
Topic Taqabli Adiyun Mutaliyati Munhaj aur Tareeq-e-qar
- Date 20-12-2011
Speakers Maulana Dr. Aslam Saddiqui
Topic Al-Nabi Khatim (S.A.W.)
- Date 21-12-2011
Speakers Dr. Umme Kalsoom
Topic Saqoot-e-Dhaka
- Date 16-02-2012
Speakers Dr. Asia Shabbir Mansoori
Topic Tafaqa fi deen di zaroorat aur fiqh al-Quran

- Date 05-04-2012
Speakers Mr. Yousaf Khan
Topic Ahday Hazir main Nojawanown ki zimadarian
- Date 07-05-2012
Speakers Dr. Tahir Mansoori
Topic Maqasad-e-Sharyiat
- Date 2nd Thursday of every month
Speakers Mr. Ahmad Javaid
Topic Arabi Adab Kabal az Islam
- **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. The current issue of December 2012 is in pipeline. Dr. Muhammad Ijaz Director Sheikh Zayed Islamic Centre is Chief Editor and Dr. Hafiz Muhammad Abdul Qayyum is the Editor of said journal.

FACULTY OF LAW

UNIVERSITY LAW COLLEGE

- **Conferences, Seminars and Workshops etc.**
 - Seminar on United Nations and International Law – 13th October, 2011.
 - Conference on “Pakistan Challenges to Democracy, Governness & National Unity”. 24-25 October, 2011.
- **Research Journals**

<p>Ms. Shazia Qureshi Assistant Professor</p>	<p>Feminist Analysis of Human Rights Law (Journal of Political Studies vol.19 Issue-2, Winter 2012, 41-55) Progressive Development of Women's human rights in international Human Right Law and within United Nations System. (Journal of Political Studies vol.19 Issue-2, Winter 2012, 111-124)</p>
<p>Mr. Samee Ozair Khan Assistant Professor (Co Author)</p>	<p>Ethnic Factor in Afghanistan (Journal of Political Studies vol.19 Issue-2, 2012, 97-109) Right to Life as Basic Structure of Indian Constitution Vol. 2, No.26, December 2011, Research Journal of South Asian Studies Basic Structure of Constitution: Impact of Kesavananda Bharti</p>

	on Constitutional Status of Fundamental Rights Vol. 2, No.26, December 2011, Research Journal of South Asian Studies
	Impact of the Objectives Resolution on Legal System Vol 16 Issue 2, December 2011 Al-Qalam (HEC recognized)
	Talaq: Impact of Tensions between Law and Shariah in Pakistan Vol 16 Issue 2, December 2011 Al-Qalam (HEC recognized)
Dr. Aman Ullah Malik Assistant Professor (Co author)	Right to Life as Basic Structure of Indian Constitution Vol. 2, No.26, December 2011, Research Journal of South Asian Studies
	Basic Structure of Constitution: Impact of Kesavananda Bharti on Constitutional Status of Fundamental Rights Vol. 2, No.26, December 2011, Research Journal of South Asian Studies
	Impact of the Objectives Resolution on Legal System Vol 16 Issue 2, December 2011 Al-Qalam (HEC recognized)
	Talaq: Impact of Tensions between Law and Shariah in Pakistan Vol 16 Issue 2, December 2011 Al-Qalam (HEC recognized)
Mr. Naeem Ullah Khan Lecturer (Co author)	Evolving Paradigm relating to ADR in Pakistan, International Journal on Contemporary Research and Buisness (IJCRB), March 2012.

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Link – Lexis Nexis
- **Funding Grants for R&D**
 - Link – Lexis Nexis

FACULTY OF LIFE SCIENCES

CENTRE FOR CLINICAL PSYCHOLOGY

- **Research & Development – An Overview**
 - Research courses are taught at both undergraduate and graduate level. Individual research projects are essential requirement for students of masters and doctorate level and undergraduate students. Research supervisors are assigned to every student undergoing their research project

at masters and doctorate level. 18 research theses are completed and added to library during this year by the MS students and 29 by BS (Hons.) students.

• **Projects (i) Completed**

Sr. No.	Project Name	Name of Faculty	Duration	Sponsoring Agency	Funding
1	Common Mental Disorders (CMDs) among Women Presenting with Gynecological Complaints	Dr. Nashi Khan	One Year	Punjab University	150000
2	Development of Scale for Emotional Intelligence – Adolescent Version	Dr. Saima Dawood	One Year	Punjab University	150000
3	Personality Traits, creativity and Psychological Adjustment among University Students	Aasma Yousaf	One Year	Punjab University	125000
4	Parents Perception of Adolescents Self Harm Behaviors: A Qualitative Study	Humaira Naz	One Year	Punjab University	125000
5	Prevalence of Sexual Disorders among Married Couples of Lahore	Tehreem Arshad	One Year	Punjab University	125000

(ii) **Newly Launched**

Sr. No.	Project Name	Name of Faculty	Duration	Sponsoring Agency	Funding
1	Perceptions & Beliefs of Men Presenting with Dhat Syndrome	Dr. Nashi Khan	One Year	Punjab University	150000
2	An exploration of Behavioural and Psychological Correlates of Dementia / Alzheimer's Disease and Caregivers Distress	Dr. Saima Dawood	One Year	Punjab University	150000
3	Caregiver burden, and belief among caregivers of patients with hepatitis C	Aasma Yousaf	One Year	Punjab University	125000
4	Illness perception, coping and mental health among patients with chronic pain	Humaira Naz	One Year	Punjab University	125000
5	Spiritual Intelligence, Happiness and Psychological Adjustment among University Students	Tehreem Arshad	One Year	Punjab University	125000

• **Publications**

Authors Name	Article	Journal
Naz F., & Kausar R.	Parental Acceptance Rejection	Journal of Behavioural

Authors Name	Article	Journal
	in relation to Somatoform Disorders in Children.	Sciences, Special Issue on Parental Acceptance Rejection Research in Pakistan. X Category.
Najam N F., & Kausar R.	Father acceptance rejection and emotional adjustment of adolescents.	Journal of Behavioural Sciences, Special Issue on Parental Acceptance Rejection Research in Pakistan. X Category.
Antonio Lasalvia, Silvia Zoppei, Tine Van Bortel, Chiara Bonetto, Doriana Cristofalo, Kristian Wahbeck and all the ASPEN/INDIGO Study Group Prof. Dr. Rukhsana Kausar, Nashi Khan et al (2012)	Global pattern of experienced and anticipated discrimination reported by people with major depressive disorder: a cross-sectional survey	(www.thelancet.com Published online) The Lancet October 18, 2012 http://dx.doi.org/10.1016/S0140-6736(12)61379-8 .
Dr. Nashi Khan, Adeela Khalid	Pathways of Women Prisoners to Jail in Pakistan	Journal of Health Psychology Perspective, 2012
Dr. Nashi Khan, Hira Fatima	Perception of Women Reporting Vaginal Discharge at Gynecology Clinics, Lahore.	Journal of Behavioural Sciences, 2012 (Submitted)
Dr. Nashi Khan, Hidna Iqbal	Demographic Variables of Men with Erectile Dysfunction	Journal of Behavioural Sciences, 2012 (Submitted)
Dr. Saima Dawood & Fakhar Jehan	Efficacy of Behaviour Therapy in the Treatment of OCD patients	Pakistan Journal of Clinical Psychology, 2012 (Submitted)
Dr. Aisha Sitwat & Saadia Shanz	Comparative study of the family functioning of OCD patients and Healthy Counterparts	Middle – East Journal of Scientific Research 12(5): 717-722 (2012)

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

Name	Sponsors	Presentation Oral / Poster	Topic	Date
Maryam Suheyl	CCP	Oral	Workshop on Marital and Family Therapy	3rd November, 2011
Ms. Saima Salman	CCP	Oral	Workshop on REBT in a Nutshell: Basic Diagnostic and Intervention Skills	16th December, 2011
Dr. Umneea Khan	CCP	Oral	Workshop on Psychopathic like	22nd

Name	Sponsors	Presentation Oral / Poster	Topic	Date
			Traits in Children and Adolescence	December, 2011
Elin Mahle Unni Marrie Heltne	CCP	Oral	Psychological Management of Children After Disaster	22nd – 24th February, 2012
Ms. Nazia Bashir Ms. Amira Amjad	CCP	Oral	Post Disaster Management of Children	22nd & 23rd June, 2012
Mr. Rab Nawaz Lodhi	CCP	Oral	Nvivo Software for Interpreting Qualitative Research Data	12th May, 2012
Dr. Iftikhar N. Hassan	CCP	Oral	Workshop on Counseling Skills	17th & 18th May, 2012
Dr. Aneeq Ahmed Khan	CCP	Oral	A Lecture on Dietary Omega -3 Fatty Acids and The Brain	1st February, 2012
Ms. Wajeeha Zahra	CCP	Oral	Extension Lecture on Childhood Disorder	14th & 21st September, 2011
Ms. Mujeeba Ashraf	CCP	Oral	Extension Lecture on Data Analysis in Grounded Theory	11th January, 2012
Dr. Naumana Amjad	CCP	Oral	Extension Lecture on Anger Problems in Children	18th January, 2012
Dr. Aneeq Ahmad Khan	CCP	Oral	Extension Lecture on Dietary Omega-3 Fatty Acids and The Brain	1st February, 2012
Dr. Altaf Qadir Khan	CCP	Oral	Extension Lecture on Mental status Examination and Interviewing Skills	7th March, 2012
Ms. Saira M. Khan	CCP	Oral	Extension Lecture on Personal and Professional Development: Be the Master of your Own Life	21st March, 2012
Dr. Moeen Ahmad	CCP	Oral	Extension Lecture on Epilepsy	4th April, 2012
Dr. Ghulam Mustafa	CCP	Oral	Extension Lecture on Child Psychiatry: An Overview	18th April, 2012
Ms. Elin Mahle & Ms. Unni Marrie	CCP	Oral	Extension Lecture on Status of Clinical Psychology in Norway	21st April, 2012
Dr. Irum Fatima	CCP	Oral	Extension Lecture on Ethical Standards in Research	16th May, 2012
Ms. Mirrat Gul Butt	CCP	Oral	Extension Lecture on Dialectical Behavior Therapy	30th May, 2012
Dr. Urusa Fahim	CCP	Oral	Extension Lecture on Self Awareness	28th September, 2012

- **Research Journals**

- Pakistan Journal of Professional Psychology: Research & Practice 2nd Issue is in process.

CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Research & Development – An Overview**

- The Centre of Excellence in Molecular Biology continues to pursue its objective of advanced teaching and research. Different research groups like previous year are actively engaged in Plant Biotechnology, Stem Cell Research, Functional Genomics, DNA Sequencing and Genotyping, Molecular Basis of Genetic Diseases, Forensic Science, Biopharmaceutical, Seed Biotechnology, Molecular Diagnosis of diseases etc areas of molecular biology. The scientists of the Centre published research papers in high impact factor peer reviewed journals. The excellent academic environment, prevailing in the Centre attract scientists from Pakistan and abroad, to spend sabbatical assignments at the Centre.

- **Projects (i) Completed**

Sr. No.	Name of the Projects	Duration	Sponsoring Agency	Funding	Total Approved Cost
1	Molecular Genetics of Usher Syndrome Type 1 in Pakistani Population.	36 Months	Higher Education Commission	8.497 Million	8.743 Million

- (ii) **Newly Launched**

Sr. No.	Name of the Projects	Duration	Sponsoring Agency	Funding	Total Approved Cost
1	Transformation of Gene Constructs and genetically engineered germplasm resource/commercial genotypes resistant to develop cotton leaf curl disease and /or its insect vector.	36 Months	ICARDA	4.396 Million	150936 US\$

- **Publications**

Research Papers:

- González-Carranza ZH., Shahid A A., Zhang L., Yang L., Ninsuwan U and Roberts J A (2012). A novel approach to dissect the abscission process in Arabidopsis. Plant Physiology. PP. 112.205955
- Ilyas M., Nawaz K., Shafiq M., Haider MS and Shahid AA. (2012). Archives of Virolog. Complete nucleotide sequences of two begomoviruses infecting Madagascar periwinkle (Catharanthus roseus) from Pakistan.

- Afzal M., Shahid AA., Shehzadi A., Nadeem S and Husnain T. (2012). RDN Analyzer: A tool for DNA secondary structure prediction and sequence analysis. *Bioinformation*, 8(14): 687-690.
- Israr M., Shahid AA., Rahman, Z., Shahzad MS., Ullah O. and Husnain T. (2012). Punjabi population data for seven X-chromosome short tandem repeat (X-STR) loci using a new miniplex system. *African Journal of Biotechnology*, 11(46): 10513-10516.
- Fatima S., Anjum T., Bajwa R and Shahid AA (2012). Identification of indigenous *Xanthomonas* isolates through 16S rRNA gene amplification and SDS PAGE analyses. *African Journal of Microbiology Research*, 6(15): 3651-3655.
- Shahid AA., Rao AQ., Bakhsh A and Husnain T (2012). Entomopathogenic Fungi as Biological Controllers: New Insights into their Virulence and Pathogensicity, *Archives of Biological Sciences*, Belgrade, 64 (1): 21-42.
- Javed S., Shahid AA., Muhammad HS., Umeera A., Ahmad R. and Mushtaq S. (2012). Nutritional, Phytochemical Potential and Pharmacological evaluation of *Nigella Sativa* (Kalonji) & *Trachyspermum Ammi* (Ajwain). *Journal of Medicinal Plant Research*, 6(5): 786-775.
- Bakhsh A., Rao AQ., Khan GA., Rashid B., Shahid AA and Husnain T (2012). Insect Resistance Studies of Transgenic Cotton Cultivar Harboring cry1Ac and cry2A. *Tarım Bilimleri Araştırma Dergisi* 5 (2): 167-171.
- Rahman M., Muhammad N., Shahid AA and Husnain T. (2012). Allelopathic effects of transgenic rice having cry1Ac and cry2A genes on seed germination of wheat and chickpea crops. *New Horizons in Science & Technology (NHS&T)*, 1(3):71-75.
- Rahman M., Muhammad N., Shahid AA and Husnain T. (2012). Elite transgenic lines of basmati-370 revealed high level of lodging resistance under field conditions. *Pure Applied Biology*. 1(2): 22-27.
- Rahman M., Rao AQ., Batool F., Azam S., Shahid AA and Husnain T (2012). Transgene copy number and phenotypic variations in transgenic Basmati rice. *The Journal of Animal & Plant Sciences*, 22(4): 1004-1013.
- Ibrahim A., Shahid AA., Shafiq M and Haider MS (2012). Management of root knot nematodes on the turnip plant (*Brassica rapa*) by using fungus (*Trichoderma harzianum*) and neem (*Azadirachta indica*) and effect on the growth rate. *Pakistan Journal of Phytopathology*. 24(2): 101-105.
- Shahid MN., Jamal., Rashid B., Aftab B and Husnain T (2012). Identification and isolation of salt stress responsive transcripts from *Gossypium arboreum* L. *Turkish J Biol*. 36 (6): 746-756
- Bakhsh A., Rao AQ., Shahid AA and Husnain T (2012). Spatio Temporal Expression Pattern of an Insecticidal Gene Cry2A in Transgenic Cotton Lines *Notulae Scientia Biologicae* 4 (4):115-119.
- Nasir IA., Jamal A., Husnain T and Riazuddin S (2012). Molecular Analyses of in-vitro selected gladiolus lines with increased resistance against *Fusarium* wilt. *Pak. J. Bot.* 44(1): 73-79

- Tabassum B., Nasir IA., Aslam U and Husnain T 2012. How RNA interference combat viruses in plants. In: Functional Genomics. 1st edition, Croatia: InTech. 113-130.
- Jamal A., Nasir IA., Tabassum B., Tariq M., Farooq AM., Qamar Z., Khan MA., Ahmad N., Shafiq M., Haider MS., Javed MA and Husnain T 2012. Molecular characterization of capsid protein gene of potato virus X from Pakistan. African Journal of Biotechnology. 13854-13857.
- Farooq AM., Nasir IA., Tabassum B., Tariq M., Qamar Z., Khan MA., Ahmad N., Shafiq M., Haider MS., Javed MA and Husnain T 2012. Development and comparative studies of double cross tomato hybrids. African Journal of Agricultural Research. 7(37) 5259-5264.
- Ishfaq M., Nasir IA., Mahmood N and Saleem M (2012). In vitro induction of mutation in tomato (*lycopersiconesculentum* L.) Cv. Roma by using chemical mutagens. Pak. J. Bot., 44: 311-314.
- Naeem MA., Chavali VRM., Ali S., Iqbal M., Riazuddin S., Khan SN., Husnain T., Sieving PA., Ayyagari R., Riazuddin S., Hejtmancik JF and Riazuddin SA (2012). GNAT1 associated with autosomal recessive congenital stationary night blindness. Investigative ophthalmology & visual Science. 53(3):1353- 1361
- Iqbal Z., Neveling K., Razzaq A., Shahzad M., Zahoor MY., Qasim M., Gilissen C., Wieskamp N., Kwint MP., Gijsen S., de Brouwer AP., Veltman JA., Riazuddin S and van Bokhoven H (2012). Targeted next generation sequencing reveals a novel intragenic deletion of the TPO gene in a family with intellectual disability. Arch Med Res. 43:312-316.
- Iqbal Z., Shahzad M., Vissers LE., van Scherpenzeel M., Gilissen C., Razzaq A., Zahoor MY., Khan SN., Kleefstra T., Veltman JA., de Brouwer AP., Lefeber DJ., van Bokhoven H and Riazuddin S (2012). A compound heterozygous mutation in DPAGT1 results in a congenital disorder of glycosylation with a relatively mild phenotype. European Journal of Human Genetics. doi:10.1038/ejhg.2012.257.
- Wajid N., Mehmood A., Bhatti FU., Khan SN and Riazuddin S (2012). Lovastatin Protects Chondrocytes Derived from Wharton's Jelly of Human Cord Against hypoxia and Serum deprivation Induced in vitro Injury. Cell and Tissue Research. 10.1007/s00441-012-1540-3
- Masoud MS., Anwar SS., Afzal MZ., Mehmood A., Khan SN and Riazuddin S (2012). Pre-conditioning augments mesenchymal stem cells survival and engraftment in renal ischemia reperfusion. Journal of Translational Medicine. 10:243 doi: 10.1186/1479-5876-10-243
- Ali G., Mohsin S., Khan M., Nasir GA., Shams S., Khan SN and Riazuddin S (2012). Nitric oxide augments mesenchymal stem cell ability to repair liver fibrosis. Translational Medicine. 10:75
- Choudhery MS., Khan M., Mahmood R., Mohsin S., Akhtar S., Ali F., Khan SN and Riazuddin S (2012). Mesenchymal stem cells conditioned with glucose depletion augments their ability to repair-infarcted myocardium. (2518-29) doi: 1111.j.1582-4934
- Choudhery MS., Khan M., Mahmood R., Mehmood A., Khan SN and Riazuddin S (2012). Bone marrow derived mesenchymal stem cells from aged mice have reduced wound healing,

- angiogenesis, proliferation and anti-apoptosis capabilities. *Cell Biology International*. 36(8):747-53.
- Butt AM., Feng D., Nasrullah I., Tahir S., Idrees M., Yigang Tong Y and Lu J (2012). Computational identification of interplay between phosphorylation and O- β -glycosylation of human occludin as potential mechanism to impair hepatitis C virus entry. *Infection Genetics Evaluation*. 12(6):1235-45.
 - Shah AR and Idrees M (2012). Hepatitis E Virus Associated Aplastic Anemia: First case of its kind. *J Clin Virol*. 54: 96-97.
 - Butt A., Feng D., Idrees M., Tong Y and Lu J (2012). Computational identification and modeling of crosstalk between phosphorylation, O-beta-glycosylation and methylation of FoxO3 and implications for cancer therapeutics. *Int J Mol Sci* 13(3), 2918-2938;
 - Badar S., Khubaib B and Idrees M (2012) et al. Association of Hepatitis C Virus With Insulin Resistance: Evidences From Animal Studies and Clinical Studies. 12(1): 11-15
 - Ali A., Nisar M., Idrees and Ahmad H (2012). Prevalence of HBV infection in suspected population of conflict-affected area of war against terrorism in North Waziristan FATA Pakistan. *Infection, Genetics and Evolution*. 1865-1869.
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 - Ahmad W., Ijaz B and Hassan S (2012). Gene expression profiling of HCV genotype 3a initial liver fibrosis and cirrhosis patients using microarray. *J Transl Med* 10:41
 - Asad S., Ijaz B., Ahmad W., Kausar H., Sarwar MT., Gull S., Shahid I., Khan MK and Hassan S (2012). Development of persistent HCV genotype 3a infection cell culture model in huh-7 cell. *Virol J*. 10;9:11.
 - Niaz M Achakzai., Z. Rahman., MS. Shahzad., S. Daud., M. Sahibzar., M. Israr., T Husnain., Sascha Willuweit and Lutz Roewer (2012). Y -Chromosomal STR analysis in Pashtun Population of Southern Afghanistan. *Forensic Sci. Int. Genet*. 6 (4): e103-e105.
 - Riazuddin S., Belyantseva IA., Giese AP., Lee K., Indzhukulian AA., Nandamuri SP., Yousaf R., Sinha GP., Lee S., Terrell D., Hegde RS., Ali RA., Anwar S., Andrade-Elizondo PB., Sirmaci A., Parise LV., Basit S., Wali A., Ayub M., Ansar M., Ahmad W., Khan SN., Akram J., Tekin M.,

Riazuddin S., Cook T., Buschbeck EK., Frolenkov GI., Leal SM., Friedman TB and Ahmed ZM (2012). Alterations of the CIB2 calcium and integrin-binding protein cause Usher syndrome type 1J and nonsyndromic deafness DFNB48. *Nat Genet.* 44(11):1265-71

- Bashir ZE., Latief N., Belyantseva IA., Iqbal F., Amer Riazuddin S., Khan SN., Friedman TB and Riazuddin S (2012). Phenotypic variability of CLDN14 mutations causing DFNB29 hearing loss in the Pakistani population. *J Hum Genet* doi: 10.1038/jhg.2012.143
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- Muhammad Ilyas., Saqib Shehzad., Muhammad Israr., Syayada Samra Jafri, Muhammad Shafeeq., Mian Sahib Zar., Azam Ali., Ziaur Rahman and Tayyab Husnain (2012). Genetic analysis of 17 Y-STR loci in Pashtun population from Swat Valley, Pakistan. *Int J Legal Med.* 126: S51.
- Masaud Shah., Sulaiman Shams and Ziaur Rahman (2012). Molecular Relationship between Field and Vaccine Strain of Measles Virus and its Persistence in Pakistan. *Genetic Vaccines and Therapy.* 10:1An ANN model for treatment prediction in HBV patients. *Bioinformation.* 6(6): 237–239.
- Abida Shehzadi., Shahid-ur-Rahman and Tayyab Husnain (2012). Selection of Epitope-Based Vaccine Targets of HCV Genotype 1 of Asian Origin: A Systematic In Silico Approach. *Bioinformation.* 8(20):957-62.
- Muhammad Afzal., Ahmad Ali Shahid., Abida Shehzadi., Shahid Nadeem and Tayyab Husnain (2012). RDNAnalyzer: A tool for DNA secondary structure prediction and sequence Analysis. *Bioinformation.* 8(14):687-90

Books Published:

- Adnan Muzaffar., Abdul Qayyum Rao and Tayyab Husnain Chloroplast Targeted Expression of Cry1Ac and Cry2A Genes in Cotton: Cloning and Chloroplast Expression of Cry1Ac and Cry2A Transit Peptide Fusion Genes in Cotton Variety MNH-786. Lambert Academic Publishing Germany. ISBN-978-3-659-31158-1

Book Chapter:

- Bushra Rashid., Tayyab Husnain and Sheikh Riazuddin (2012). Plant Genetic Engineering: Problems and Applications. 2012 In *Crop Production for Agricultural Improvement*. Ashraf, M.; Öztürk, M.; Ahmad, M.S.A.; Aksoy, A. (Eds.) ISBN 978-94-007-4115-7.

• Conferences, Seminars and Workshops etc.

- Tayyab Husnain (2012) Search of drought tolerant genes/transcription factor from *Gossypium arboreum* and its transformation in *Gossypium hirsutum*. Poster presented at International

Cotton Genome Initiative conference (ICGI). Raleigh, North Carolina, USA, (October 09-12, 2012.)

- Rashid B., Aftab B., Shahid MN., Hassan S., Saddique S and Husnain T (2012). Identifying CLCV tolerant genes in cotton through genomics approaches. Poster presented at International Cotton Genome Initiative conference (ICGI). Raleigh, North Carolina, USA, (October 09-12, 2012)
- Ahmad Ali Shahid, Hafiz Mujeeb-ur-Rehman, Muhammad Akram and Adnan Zahid (2012). "Real time Nitrogen fertilizer management with the leaf color chart technology in rice in Punjab Province Pakistan. Presented at 3rd International Conference on Agriculture and Animal Sciences. Bangkok, Thailand (November, 24-25, 2012).

RESEARCH COLLABORATION

- **Indigenous**
 - Bahaudin Zakria University, Multan.
 - CCRI Multan
 - University of Veterinary and Animals Sciences, Lahore.
- **Foreign Linkages**
 - Pak – USA
- **Funding Grants for R&D**

1	A Molecular Approach to Prevent Hereditary Blindness in Pakistan.	36 Months	Higher Education Commission (PAK-USA)	6.688 Million	78,232 US\$
2	The Development of Oligonucleotide Microarray and its use in the analysis of abiotic Stress	36 Months	Higher Education Commission	3.930 Million	6.445 Million
3	Cellular Characterization of Cotton Universal Stress Protein USP Genes and Their Role in Drought Stress	36 Months	Higher Education Commission	1.719 Million	4.696 Million
4	Transformation of Bt cotton with Transgenic Factor Gene of Gossypium arboreum to enhance drought Tolerance	36 Months	Higher Education Commission	0.850 Million	2.776 Million

DEPARTMENT OF APPLIED PSYCHOLOGY

- **Research & Development – An Overview**
 - A Centre for Psychological Research and Services has been established as a unit of the Department of Applied Psychology. The aim is to produce high quality research. Information on Departmental research is available on www.pu.edu.pk/appsy. 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. They win research grants each year, present their research work at international forums and publish research work in journals of repute.

• **Projects (i) Completed**

Sr. No.	Project Name	Name of Faculty Member
1.	Gender Disparity and Achievement Gaps in Higher Education Duration 2 years, Research grant by Vice Chancellor, University of the Punjab, Lahore	Rukhsana Kausar
2.	Partners on "Global Climate Change and Health Security: Concepts, Methodology and Burden of Disease Assessment for Asia" with Prof. Dr. Alexander Krämer, Dr. MMH Khan, Heiko Jahn, Belfield University, Germany (ongoing).	Rukhsana Kausar
3.	Collaborative project on "Parental power-prestige and the effects of paternal versus maternal acceptance on the psychological adjustment of offspring", with Ronald P Rohner, Ronald and Nancy Rohner Centre for the Study of Interpersonal Acceptance and Rejection, Department of Human Development and Family Studies, University of Connecticut, USA.	Rukhsana Kasuar
4.	Identifying and Changing Prejudiced beliefs (Feb 2012 to Dec. 2012) by Punjab university	Naumana Amjad
5.	Sources of Academic Stress in Intermediate Science Students, 2011-2012, University of the Punjab, Rs. 150,000	Iram Fatima
6.	Research grant approved by Research Evaluation Committee, University of the Punjab, Ethical Institutionalization, personality Traits and Job Related Outcomes of University Teachers, (2011-2012)	Shazia Khalid
7.	Positive and Negative Psychological Correlates, Gender Specific and Traditional Factors for First Onset Angina in a Sample of Pakistani Women. (Duration 1 year) Research grant approved by Research Evaluation Committee, University of the Punjab (June, 2011) (1 lac 25 thousand)	Rafia Rafique
8.	Research grant approved by Research Evaluation Committee, University of the Punjab. Dialysis Modality Preferences and quality of life in Adolescents with pediatric Renal Failure	Afsheen Masood
9.	Research grant approved by Research Evaluation Committee, University of the Punjab. Academic Stress Experienced and Coping Strategies Utilized By University Students (2012)	Omama Tariq
10.	Research grant approved by Research Evaluation Committee, University of the Punjab. Self-Perception and Employee Perception	Tahira Mubashir

Sr. No.	Project Name	Name of Faculty Member
	about Female Managers: Role of Stereotype Beliefs, Gender Role Egalitarian Attitude and Organizational Culture. (2011-2012)	
11.	Research grant approved by Research Evaluation Committee, University of the Punjab, 2012, Diagnostic uncertainty and its consequences in relation to Dengue fever	Afifa Anjum
12.	Gender Differences in Indulgence in Unfair Means by Students during Examination, completed in 8 months, sponsored by University of the Punjab	Ms. Shahnaila Tariq
13.	Corruption in education sector: An exploratory study, , completed in 8 months, sponsored by University of the Punjab	Ms. Shahnaila Tariq

(ii) Newly Launched

Sr. No.	Project Name	Name of Faculty Member
1.	Cognitive and Neurological Functioning of Elderly: A comparison of Punjab and Gilgit Baltistan.	Rukhsana Kausar
2.	Submitted to centre for Companion and Altruism Research, Stanford University, USA 11 Months, Building interfaith/comparison	Naumana Amjad
3.	Research grant approved by Research Evaluation Committee, University of the Punjab. Job satisfaction, organizational Commitment and Turnover Intentions in relation to perceived organizational politics among administrative staff of university of the Punjab (2012-2013)	MS Shazia Khalid
4.	Neuropsychological Functioning in Patients Diagnosed with Myocardial Infarction: With and Without Type II Diabetes(duration 1 year)Research grant approved by Research Evaluation Committee, University of the Punjab (June, 2012) (1 lac 25 thousand)	Rafia Rafique
5.	Research grant approved by Research Evaluation Committee, University of the Punjab. Religious Involvement, Family Functioning and Conflict Resolution in Family Relationships (2012-2013)	Ms Afsheen Masood
6.	Research grant approved by Research Evaluation Committee, University of the Punjab. Psycho-Social and Behavioral Skills Profiling, Assessment and their Association with Job Performance in Non-Teaching and Administrative Staff of a Public Sector University (2012-2013)	Ms Tahira Mubashir

- Publications**

Sr. No.	Papers Published	Name of Author
1.	Global pattern of experienced and anticipated discrimination reported by people with major depressive disorder: a cross-sectional survey, the Lancet (www.thelancet.com Published online) October 18, 2012 http://dx.doi.org/10.1016/S0140-6736(12)61379-8	Et al...Rukhsana Kausar
2.	Parental Rejection and Comorbid Disorders in Adolescents with	Fauzia Naz &

Sr. No.	Papers Published	Name of Author
	Somatization Disorder. Journal of Behavioural Sciences, Special Issue on Parental Acceptance Research in Pakistan. No 1, 125-142	Rukhsana Kausar
3.	Father Acceptance _ Rejection, Father involvement and Socio Emotional Adjustment of Adolescents in Pakistan, Journal of Behavioural Sciences, Special Issue on Parental Acceptance Research in Pakistan.	Najma Najma & Rukhsana Kausar
4.	Parental Rejection and Childhood Abuse in Adolescents with Somatoform Disorders. Journal of Behavioural Sciences,	Fauzia Naz & Rukhsana Kausar
5.	(In press). Perfectionism, Loneliness and Life Satisfaction in Engineering Students. Journal of Behavioral Sciences.	Syeda Fatima Husnain and Iram Fatima
6.	Psychosocial Factors as Predictors of Early Onset Ischemic Heart Disease in a Sample of Pakistani Women. International Journal of Research Studies in Psychology, 1(2), 3-10	Rafique, R., & Amjad, N. (2012)
7.	Psychological well-being, Quality of life and Coping strategies in Patients with Cardiac diseases. Asian heart journal, 20, 45-52.	Kathleen, A., & Rafique, R. (2012).
8.	Psychological and Traditional Risk Factors of Early Onset IHD In a Sample Drawn from Pakistani Population' International Journal of Psychology	Rafique, R., & Amjad, N. (2012).
9.	Trust in opposite gender Friendship: A Comparative Analysis of Male and Female University Students. The Asian Conference on Psychology and the Behavioral Sciences 2012. Official Conference Proceedings.	Rafique, R & Anjum, A.
10.	Ischemic Heart Disease in Pakistani Women: A Case Control Study. Journal of Asian Health, 1(2).	Rafique, R., Amjad, N. (2012).
11.	Procrastination and Self-Esteem in University Students. Pakistan Journal of Social & Clinical Psychology, 9 (3).	Marrium, S., Rafique, R. (2012).
12.	Dietary predictors of early-onset ischemic heart disease in a sample drawn from a Pakistani population. Heart Asia , 4:129-134	Rafique, R., Amjad, N. (2012)
13.	Cokely, E.T., Ghazal, S., & Rocio Garcia-Retamero (in press). Measuring numeracy. In B. L. Anderson & J. Schulkin (Eds.), Numerical Reasoning in Medical Decision Making. Cambridge University Press, Cambridge, UK	Saima Ghazal
14.	Cokely, E.T., Ghazal, S., Garcia-Retamero, R., & Galesic, M. (2012). Cross-Cultural comparisons of statistical numeracy in college educated samples. In R. Garcia-Retamero & M. Galesic (Eds.), Risk communication and medical decision making: A cross-cultural perspective. New York: Springer	Saima Ghazal
15.	Cokely, E. T., Galesic, M., Schulz, E., Ghazal, S., & Garcia-Retamero, R.(2012). Measuring risk literacy: The Berlin Numeracy Test .Judgment and Decision Making, 7, 25–47.	Saima Ghazal
16.	Demographic Predictors of Depression influencing Quality of Life among Renal Transplant Recipients (International Journal of Research	Fatima Kamran

Sr. No.	Papers Published	Name of Author
	Studies in Psychology (Doi: 10.5861/ijrsp.2012.180)	
17.	Do Clinical Variables influence Quality of Life among Renal Transplant Recipients? (Manuscript accepted International Journal of Research Studies in Psychology)	Fatima Kamran
18.	The prevalence of Dyslexia in the Middle School Students of Lahore City of Pakistan journal name missing	Mujeeba Ashraf & SaimaMajeed
19.	(December, 2011) Gender Differences in Hallucinations Reported by the Patients Suffering from Schizophrenia. International Journal of Clinical Psychiatry, (1), 1-7.	Farooqi, Y.N., Anjum, A., Gull, A., & Nayab, S.
20.	Research on Aggression in Pakistan: Review and future Prospects. (In Review). Pakistan Journal of Social and Clinical Psychology	Afifa Anjum and Naumana Amjad
21.	Impact of Perceived Supervisor Support on Organizational Citizenship Behavior: Mediating role of Trust. (June , 2012). The Asian Conference on Psychology & the Behavioral Sciences 2012 Official Conference Proceedings, 249-261	Afifa Anjum and Ghuncha Naqvi

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

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
1.	Naz, F., & Kausar, R. Childhood abuse and Depressive Symptoms in Adolescents with Conversion Disorder. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
2.	Kausar, R., Tariq, S., & Khalid, M. Gender Disparity and Achievement Gaps in Higher Education in Pakistan. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
3.	Saleem, F., & Kausar, R. Computer Use, Social Interaction and Academic Performance of Pakistani Adolescents. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
4.	Zaidi, G., Zafar, N., Huda, N., Zubair, R., & Kausar, R. Quality of life and Adjustment of Patients with Type II Diabetes with Amputation and without Amputation. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
5.	Batool, S., & Kausar, R. Health Related Behaviors and Medication Adherence in Patients with Hepatitis C. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
6.	Batool, S., Naqvi, G., Javed, A., Tufail, H., & Kausar, R. Menopausal Attitude and Symptoms among Working Women. International Conference of Applied Psychology, University of the Punjab, Lahore,	Attended and Presented Rukhsana

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	Pakistan, 15-19 December, 2012.	Kausar
7.	Qureshi, A., Liaqat, F., Hassan, H., Ashraf, N., Javed, Z., & Kausar, R. Coping Strategies And Marital Adjustment Of Wives Of The Patients With Ischemic Heart Disease. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
8.	Ijaz, A., & Nashi, Q. Social Support, Body Image And Self Esteem In Post Mastectomy Brest Cancer Patients. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
9.	Zahra, A., & Kausar, R. Acute Stress Disorder Symptoms, Anxiety and Extent of Information Among Patients Suffering From Dengue Fever. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
10.	Wahid, S., & Kausar, R. Acute Stress Disorder, Symptoms Severity and Satisfaction with Treatment in Dengue Fever Patients in Relation to Empathy and Altruism in Paramedics. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
11.	Naz, S., & Kausar, R. Psychological Impact of Dissemination of Dengue Related Information Through Media on Dengue Patients and General Population. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
12.	Mukhtar, B., & Kausar, R. Symptom Severity and Self-Efficacy of Dengue Patients Receiving Psycho-education and those who Did Not Receive Psycho-education: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
13.	Bibi, A., & Kausar, R. Level of Awareness and Precautionary Practices Regarding Dengue Fever among Nomads. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012	Attended and Presented Rukhsana Kausar
14.	Waris, B., & Kausar, R. Psychological Distress and Quality of Life of Dengue Fever Survivors. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
15.	Anwar, S., & Kausar, R. Level of Information And Precautionary Practices Among Dengue Survivors And Non-Affected Individuals: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Attended and Presented Rukhsana Kausar
16.	Kausar, R., & Arif, A. Resilience, Post traumatic growth and coping strategies used by Flood Survivors. 26th Conference of European Health Psychology Society. Diplomat Hotel, Prague, Czech Republic,	Attended and Presented Rukhsana

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	22-26th August, 2012.	Kausar
17.	Kausar, R., & Awan, B. Emotional Distress and Risk Perception of Patients with Diabetes. 26th Conference of European Health Psychology Society. Diplomat Hotel, Prague, Czech Republic, 22-26th August, 2012.	Attended and Presented Rukhsana Kausar
18.	Kausar, R., & Batool, S. Health Related Behaviors and Medication Adherence in Patients with Hepatitis C. 26th Conference of European Health Psychology Society. Diplomat Hotel, Prague, Czech Republic, 22-26th August, 2012.	Attended and Presented Rukhsana Kausar
19.	Kausar, R. & Zahra, A. Acute Stress Disorder Symptoms, Anxiety and Extent of Information among patients suffering from Dengue Fever. 12th International Congress of Behavioral Medicine, 29 August – 1 September, 2012, Budapest, Hilton, Hungary.	Attended and Presented Rukhsana Kausar
20.	Kausar, R. & Awan, B. Risk Perception and Psychological Distress in patients with Type 11 Diabetes. 12th International Congress of Behavioral Medicine, 29 August – 1 September, 2012, Budapest, Hilton, Hungary.	Attended and Presented Rukhsana Kausar
21.	Khan, N., Kausar, R., Flach, C., & Howard, L. Psychological and Gynecological Morbidity in Women Presenting with Vaginal Discharge in Pakistan. 12th International Congress of Behavioral Medicine, 29 August – 1 September, 2012, Budapest, Hilton, Hungary.	Attended and Presented Rukhsana Kausar
22.	Construction of Mental Health Screening Questionnaire. 9th International Neuropsychon 2012, PC Hotel, Lahore, Pakistan, 3-4 March 2012.	Attended and Presented Rukhsana Kausar
23.	Organized Three Day workshop on “Post Disaster Psychological Management of Children” At Department of Applied Psychology, University of the Punjab, Lahore on 22nd -24th April, 2012.	Rukhsana Kausar
24.	Organized International Conference of Applied Psychology (ICAPP 2012), 15-19 December, 2012.	Rukhsana Kausar
25.	Organized a Post-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Procrastination and its Management” on 19th December, 2012.	Rukhsana Kausar
26.	Organized a Post-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Estimation of Cronbach’s Alpha Coefficient in Psychological Research” on 19th December, 2012.	Rukhsana Kausar
27.	Organized a Post-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Job and Life Satisfaction” on 19th December, 2012.	Rukhsana Kausar
28.	Organized a Post-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Application of NVivo Software for Qualitative Data Analysis relating to Industrial & Organizational	Rukhsana Kausar

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	Psychology” on 19th December, 2012.	
29.	Organized a Post-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Success and Achievement” on 19th December, 2012.	Rukhsana Kausar
30.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Building Healthy Relationships” on 16th December, 2012.	Rukhsana Kausar
31.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Behaviors and Attitudes for Promoting Women Leadership” on 16th December, 2012.	Rukhsana Kausar
32.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “The Art and Science of Rational Anger Management: Teaching your Clients how to Control their Anger before it Controls them” on 16th December, 2012.	Rukhsana Kausar
33.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Building Healthy Relationships” on 16th December, 2012.	Rukhsana Kausar
34.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Screening for Depression and Planning Mental Health Interventions for People with Diabetes” on 16th December, 2012.	Rukhsana Kausar
35.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Dealing with Abused Children: Assessment, Clinical Implications and Rehabilitation” on 15th December, 2012.	Rukhsana Kausar
36.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Healing Through Hypnosis” on 15th December, 2012.	Rukhsana Kausar
37.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Developing Cultural Sensitivity and Self-Awareness for Effective Therapeutic Communication” on 15th December, 2012.	Rukhsana Kausar
38.	Organized a Pre-Conference Workshop of International Conference of Applied Psychology (ICAPP 2012) “Enhancing Human Excellence” on 15th December, 2012.	Rukhsana Kausar
39.	Seminar on “Mentoring and Counseling in Educational Context” in Faculty Development Workshop on 5th July, 2012, Human Resource Department, University of the Punjab, Lahore.	Rukhsana Kausar
40.	Gave a Workshop on “Writing and Scoring Essay type Questions”, in Test Item Construction workshop held on 18-21 June, 2012 at DSD, Lahore.	Rukhsana Kausar
41.	Conducted a Workshop on “Professional Ethics in Educational	Rukhsana Kausar

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	Assessment”, in Test Item Construction workshop held on 18-21 June, 2012 at DSD, Lahore.	
42.	Gave a Seminar on “Conducting and Supervising Research” in Refresher Course for Post Graduate Teachers in Affiliated Colleges, held in May, 2012, University of the Punjab, Lahore	Rukhsana Kausar
43.	One day workshop on statistical analysis in center of Clinical Psychology, PU, Lahore (March 7, 2012)	Iram Fatima
44.	One day workshop on regression analysis in Lahore college for women University, Lahore (May 18, 2012)	Iram Fatima
45.	Chaired and Presented at The Asian Conference on Psychology and the Behavioral Sciences 2012 (March 30 – April 1st , 2012).	Rafia Rafique
46.	19th International Neuropsychon (2012) on Psychiatric updates and media awareness “Collaboration between Different Disciplines of Neurosciences towards Optimizing Mental Health Care” (3rd -4th March),	Rafia Rafique
47.	13th National Psychology Conference “Psychology Need of the Time”. February (10th -11th , 2012), Islamabad.	Rafia Rafique
48.	19th National Psychiatric Conference on “Complication of Dengue Fever Virus and Its Psychological Intervention” (24th -25th December, 2011: Organized by Pakistan Psychiatric Society at Pearl Continental Hotel.	Rafia Rafique
49.	13th Pakistan Psychological Association Conference “Let Us Join Hands For Pakistan” 25th – 26th November 2011, held at Hotel Pak Plaza, Lahore, Pakistan.	Rafia Rafique
50.	Ghazal, S., & Cokely, E.T.(2012, November). Beyond Risk Literacy: Using The Berlin Numeracy Test to Predict Judgments, Decisions, Choices, Metacognition, and Information Search. Poster Presented at the 33rd Annual Conference of the Society for Judgment and Decision-Making, Minneapolis, MN.	Attended and presented by Saima Ghazal
51.	Garcia-Retamero, R., Ghazal, S., &Cokely, E.T.(2012, November). Comparing Risk Literacy in 28 Countries: New Results from Berlin Numeracy Test.Poster Presented at the 33rd Annual Conference of the Society for Judgment and Decision-Making, Minneapolis, MN.	Attended and presented by Saima Ghazal
52.	Cokely, E.T., Ghazal, S., Russell, K., Simon, S., Woller-Carter, M., & Garcia-Retamero, R. (2011,November). Fluency and Efficacy: Biases in estimates of pharmaceutical effectiveness. Presented at the 25th Annual Meeting of the Society for Judgment and Decision-Making, Seattle, Washington.	Attended and presented by Saima Ghazal
53.	Workshop on Teaching & Training Skills, Surrey University, U.K	Fatima Kamran
54.	Poster presented at Annual PhD Conference, Surrey University, U.K	Fatima Kamran
55.	Extension Lecture’ New Trends in Data Analysis’ at CCP, P.U	Fatima Kamran
56.	Participated in a Workshop on In Service Faculty Training Program for	Faiz Younas

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	the Core Module: Competent English Language Usage Essentials (CELUE), Department of Microbiology Genetics, University of the Punjab, Lahore in collaboration with Learning Innovation Division HEC, Pakistan.	
57.	Participated in TOT workshop on Test item Construction Techniques, NTS-HEC Collaboration.	Faiz Younas
58.	British Psychological Conference (Social Section)	Mujeeba Ashraf
59.	Workshops: 1.Preparing posters, 2. Endnote: An introduction, 3. Lying with Statistics, 4. Writing skills - Coherence, structure and argumentation, 5. Editing your own writing, 6.writing literature review, 7.Microsoft Powerpoint 2010: Fundamental Skills, 8.Microsoft PowerPoint 2010: Advanced Features, 9.Microsoft Word 2010: Advanced document management, 10.Tutoring & Demonstrating in the Sciences: An introduction, 11.Assessment & Academic Misconduct (Science): An introduction, 12. AQMEN training course, Regression Modelling, 13.Regression Analysis Using R. Seminar: The Great Charter: Its Fate, Our Fate by Noam Chomsky	Mujeeba Ashraf
60.	Attended National Conference of Pakistan Psychological Association 25-26th November 2011.	Tahira Mubashir
61.	Presented paper entitled 'Emotional Distress and Coping Strategies in University Students after the Death of Parental Figure' in National of Pakistan Psychological Association February 2012.	Tahira Mubashir
62.	Presented paper entitled 'Justice Perceptions, Organizational Commitment and Citizenship Behavior in Employees of National and Multination Companies' in international conference at National Institute of Psychology Quaid-e-Azam University Islamabad	Tahira Mubashir
63.	Paper presented at 13th Pakistan Psychological Association Conference, January 10-11, 2012, Islamabad.	Afifa Anjum
64.	Paper presented at 12th Pakistan Psychological Association Conference , November 25-26, 2011, Lahore.	Afifa Anjum
65.	Paper presented at The Asian Conference of Psychology and Behavioral Sciences , Osaka, Japan, March 2012.	Afifa Anjum
66.	13th Pakistan Psychological Conference, 25-26 November 2011, Lahore, Pakistan	Shahnaila Tariq
67.	National Conference of Pakistan Psychological Association: 8-10 Feb, 2012, Islamabad, Pakistan	Shahnaila Tariq
68.	4th Pakistan Youth Congress, 1-4th September 2012, PC Hotel Lahore	Shahnaila Tariq

- **Research Journals**

- The department publishes its official journal "Journal of Behavioral 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 from 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 Ebsco Host, Pro Quest, Asianet and Universal Digital Library (UDL), which is a Malaysian based on-line library.

- Moreover, publishing of "Psychological Abstracts" is another distinguished feature of department. It includes abstracts of research work carried out by students and faculty members of the department.

RESEARCH COLLABORATION

• Foreign Linkages

- Dr. Rukhsana Kausar is member Research Consortium as Collaborating Partners on "Global Climate Change and Health Security: Concepts, Methodology and Burden of Disease Assessment for Asia" with Prof. Dr. Alexander Krämer, Dr. MMH Khan, Heiko Jahn, Belfield University, Germany.
- Dr. Rukhsana Kausar conducted collaborative INDIGO-Depression Project on Stigmatization of patients with psychiatric disorders, with Prof. Graham Tormicroft and Dr. Tine Van Bortel, Institute of Psychiatry, King's College London.

DEPARTMENT OF BOTANY

• Research & Development – An Overview

- Research projects and offered courses are at both undergraduate and graduate levels. Individual research projects are an essential requirement for students of masters, MS, M.Phil and Doctorate level whereas it is optional for undergraduate students. Research supervisors are assigned to every student undergoing their research project at master, MS, M.Phil and Doctorate level. During the period thirty eight papers have been published in impact factor Journals and eight papers have been published in other Journals by faculty members.

• Projects (i) Completed

Sr. No.	Principal Investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
1.	Prof. Dr. Firdaus-e-Bareen	Role of EDTA in enhancement of uptake of different heavy metals and their root to shoot translocation in plants grown hydroponically	2011-12	250,000/-	University of the Punjab
2.	Prof. Dr. Muhammad Saleem	Molecular characterization of <i>Sordaria fimicola</i> by single Nucleotide polymorphism (SNP)	2011-12	250,000/-	University of the Punjab
3.	Dr. Abdul Nasir Khalid	Mushrooms of Lahore- their identification based upon rDNA-	2011-12	200,000/-	University of the Punjab

Sr. No.	Principal Investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
		ITS region amplification			
4.	Dr. Humera Afrasiab	“Effect of plant growth regulators on callogenesis and regeneration of Rosemary,”	2011-12	150,000/-	University of the Punjab
5.	Dr. Farkhanda Jabeen	Antibacterial activities of selected plants extracts against Pesticides degrading bacteria	2011-12	150,000/-	University of the Punjab
6.	Dr. Ambreen Ahmad	Abelmoschus esculentus: Phytostimulation by Enterobacter sp	2011-12	125,000/-	University of the Punjab
7.	Dr. Asma Zulfiqar	Differential effects of chromium on various physiological characteristics of sunflower cultivars	2011-12	125,000/-	University of the Punjab
8.	Dr. Abdul Rehman Khan Niazi	Taxonomic affinities of Amanitas (Amanitaceae, Agaricales) and their Ectomycorrhizae from Himalayan moist temperate forests of Pakistan.	2011-12	150,000/-	University of the Punjab

(ii) Newly Launched

Sr. No.	Principal Investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
1.	Prof. Dr. Muhammad Saleem	Study of Molecular diversity in Ascobolus immersus	One Year	2,50,000/-	University of the Punjab
2.	Dr. Faheem Aftab	Mitigation of Salt Stress in Potato by Exogenous Application of Phytohormones or their precursors. 1.IAA and Tryptophan.	One Year	2,00,000/-	University of the Punjab
3.	Dr. Abdul Nasir Khalid	Further Addition to the Mushrooms of Lahore- Identification based upon molecular methods.	One Year	2,00,000/-	University of the Punjab
4.	Dr. Humera Afrasiab	Callogenesis and Micropropagation of medical plant Safflower (Carthamus tinctorius L).	One Year	1,50,000/-	University of the Punjab
5.	Dr. Farkhanda Jabeen	Isolation and characterization of medicinally active compounds from Centratherum anthelminticum (Purple fleebane) from Haripur Hazara,	One Year	1,50,000	University of the Punjab

Sr. No.	Principal Investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
		Pakistan			
6.	Dr. Ambreen Ahmed	Bacterial IAA: Extraction, Purification and application for efficient plant growth.	One Year	1,25,000/-	University of the Punjab
7.	Dr. Asma Zulfiqar	Role of organic acids in chelation of chromium ions in polluted soils.	One Year	1,25,000/-	University of the Punjab
8.	Dr. Abdul Rehman Khan Niazi	Fungal Flora of the Man-made Forest Changa Manga, Punjab, Pakistan	One Year	1,50,000/-	University of the Punjab

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

- Dr. Farkhanda Jabeen, Assistant Professor attended and presented a poster “Isolation and Biodegradation of Cypermethrin by a Soil Bacterium” in an International workshop “Environmental Technology Technical Symposium & Workshop. November 29 to December 1st 2011 at Washington, DC. USA.
- Dr. Farkhanda Jabeen Assistant Professor attended the Seminar on Environment Day, June 05, 2012. Organized by Punjab Forest Department and University of the Punjab.
- Dr. Farkhanda Jabeen Assistant Professor attended the two days Phycological Workshop on Algal collection and Recent Taxonomy of Chlorophycota 25-26th September, 2012. Botany Department, Government College University, Lahore
- Dr. Farkhanda Jabeen Assistant Professor attended the International Conference on Sustainable Approaches for pest and Vector Management in Pakistan. Feb, 21-22, 2011. Department of Zoology. Lahore College for Woman University, Lahore.
- Dr. Farkhanda Jabeen Assistant Professor attended the 32ND Pakistan Congress of Zoology (International), March 6-8, 2012. Zoology Department, Government College University, Lahore.
- Dr. Ambreen Ahmed Assistant Professor attended and presented Poster: “Gene sequence analysis of auxin producing plant growth promoting bacteria isolated from the indigenous environment” at the National Conference on trends in Biochemistry and Molecular Biology (21st February, 2012) At Quaid-e-Azam University, Islamabad.
- Dr. Ambreen Ahmed Assistant Professor attended the 32nd Pakistan Congress of Zoology (International) (6-8th March, 2012) at GCU, Lahore and presented a paper on “To study the bioremediation potential of Halomonas sp. and Arthrobacter sp.”
- Dr. Ambreen Ahmed Assistant Professor, Invited to innovation Summit (18th June, 2012) at Al-Razi Hall, Centre for Undergraduate Studies, Lahore.
- Dr. Ambreen Ahmed Assistant Professor attended the Video-conference on “Pak-US Science & Technology Cooperation Program (5th Sep, 2012) at Centre for Undergraduate Studies, PU.

- Dr. Ambreen Ahmed Assistant Professor attended the International conference on “Research Methodologies: New trends and integrative approach from the bench to bedside” (6-8th Sep, 12) at the University College of Pharmacy, University of the Punjab.
- Dr. Ambreen Ahmed Assistant Professor attended the one day workshop on “Quantitative data analysis using SPSS (29th Sep, 2012) at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Dr. Asma Zulfiqar Assistant Professor, attended the workshop on “Computational Biology and Bioinformatics” Workshop (C2BW) from 9th to 13th January, 2012 organized by LUMS School of Science and Engineering.
- **Research Publications**
 - Iqbal Z., Hoessli D. C., Kaleem A., Munir J., Saleem M., Afzal I., Shakoori A.R., and Nasir ud Din. (2012). Influence of sequence environment and properties of neighboring amino acids on amino-acetylation: relevance for structure-function analysis. *Journal of Cellular Biochemistry*. DOI 10.1002/jcb.24426
 - Naeem M., Ilyas M., Haider S., Baig S., and Saleem M., (2012). Isolation, characterization and identification of Lacto Bacteria from fruit juices and their efficacy against antibiotics. *Pakistan Journal of Botany*, 44: 323-328.
 - Butt A., Kaleem A., Iqbal Z., Walker N. E., Saleem M., Shakoori A. R., and Nasir D. (2011) Functional regulation of DNA of FOXO1 by post translational modifications: In silico study. *Pakistan Journal of Zoology* 43(6) 1167-1175
 - Sajid, Z. A and Aftab, F. (2012). Role of salicylic acid in amelioration of salt tolerance in *Solanum tuberosum* L. *Pakistan Journal of Botany*, 44 (special issue): 37-42.
 - Akram, M. and Aftab, F. (2012). Efficient micropropagation and rooting of King white mulberry (*Morus macroura* Miq.) Var. *Laevigata* from nodal explants of mature trees. *Pakistan Journal of Botany*, 44 (special issue): 285-289.
 - Akram, M. and Aftab, F. (2012). Effect of auxins on axillary and de-novo shoot regeneration from in vitro shoot cultures derived from forced epicormic buds of teak (*Tectona grandis* L.) *Forestry Studies in China*. 14(3): 180-186.
 - Aftab, F. ((2012)). Progress and prospects for an efficient micropropagation of woody plants. In: *Crop production for agricultural improvement*. Ashraf M., Ahmad M.S.A., Aksoy, A (Eds.). Springer. pp. 363-377.
 - Ejaz, B., Sajid, Z. A. and Aftab F., (2012). Effect of exogenous application of ascorbic acid on antioxidant enzyme activities, proline contents and growth parameters of *Saccharum* spp. Hybrid cv. HSF-240 under salt stress. *Turk Journal of Biology* 36: 630-640.
 - Munir, N. and Aftab, F. (2012). Improvement of salt tolerance in sugarcane by tissue culture – An approach towards crop improvement. Lambert Academic Publishing, Saarbrücken, Germany.

- Yousaf, N., Khalid, A. N. and Niazi, A. R. (2012). New records of Scleroderma (Sclerodermataceae, Agaricomycetes) from Pakistan. Mycotaxon, 122:
- Razaq, A., Khalid, A. N. and Vellinga, E. C. (2012). *Lepiota himalayensis* (Basidiomycota, Agaricales), a new species from Pakistan. Mycotaxon 121: 319-325
- Afshan, N. S., Khalid, A. N., Niazi, A. R. (2012). Some new rust fungi (Uredinales) from Fairy Meadows, Northern areas, Pakistan. Journal of Yeast and Fungal Research, 3(5): 65-73.
- Razaq, A., Khalid, A. N. and Ilyas, S. (2012). Molecular Identification of *Lyophyllum connatum* and *Paneolus sphinctrinus* (Basidiomycota, agaricales) from Himalayan Moist Temperate Forests of Pakistan. Int. Journal Agriculture Biology, 14: 1001-1004.
- Sarwar, S., Khalid, A. N., Hanif, M. and Niazi, A. R. (2012). *Suillus flavidus* and its ectomycorrhizae with *Pinus wallichiana* in Pakistan. Mycotaxon, 121: 225-232.
- Denchev, C. M., Fiaz, M., Denchiv, T. T., Ahmad, H. and Khalid, A. N. (2012). Additions to the smut fungi of Pakistan. Mycotaxon, 121: 165-170.
- Sarwar, S. and Khalid, A. N. (2012). Check list of Boletales of Pakistan. Mycotaxon, 121: 12.
- Jabeen, S., Ilyas, S., Niazi, A. R. K. and Khalid, A. N. (2012). Diversity of ectomycorrhizae associated with *Populus* spp., growing in two different ecological zones of Pakistan. Int. Journal Agriculture Biology, 14: 681-688.
- Yousaf, N., Kreisel, H. & Khalid, A. N. (2012). *Bovista himalaica* sp. nov. (gasteroid fungi; Basidiomycetes) from Pakistan. Mycological Progress, DOI 10.1007/s11557-012-0864-4
- Hanif, M., Khalid, A. N., Sarwar, S. (2012). Additions to the Ectomycorrhizae Associated with Himalayan Cedar (*Cedrus deodara*) using rDNA-ITS. Int. Journal of Agriculture Biology, 13 (07): 1062-1067.
- Razaq, A., Khalid, A. N. and Ilyas, S. (2012). *Tricholomopsis flammula* Metrod Ex Holec (Basidiomycota, Agaricales), an addition to mushroom flora of Pakistan based on molecular identification. Pakistan Journal of Botany, 44: 413-416.
- Saba, M., Khalid A. N., and Bernett. (2012). *Hyalopsora nodispora* is the new holomorph name for *Uredo capilli-veneris* (Uredinales, Pucciniastraceae) from Pakistan. Mycological Progress, 11(2): 967-969.
- Afshan, N. S., Khalid, A. N., and Niazi, A. R. (2012). New record of *Puccinia* species on poaceae from Fairy Meadows, Pakistan. Mycotaxon, 120: 407-413.
- Afshan, N. S., Khalid, A. N., and Niazi, A. R. (2012). Three new *Caeoma* species on *Rosa* spp. from Pakistan. Mycotaxon, 120: 239-246.
- Ashraf, T., Hanif, M. and Khalid A. N. (2012). *Peziza michelii* and its ectomycorrhizae with *Alnus nitida* (Betulaceae) from Pakistan. Mycotaxon, 120: 181-188.
- Ashraf, T. and Khalid, A. N. (2012). New records of Pezizales from Pakistan. Mycotaxon 119: 301-306.

- Yousaf, N., Niazi, A. R. and Khalid, A. N. (2012). New Records of Note worthy Gasteroid fungi from Pakistan. *Mycotaxon*, 119: 261-267.
- Moreno, G. and Khalid, A. N. (2012). *Quelitia mirabilis*, a rare gasteroid species in Gran Canaria, Spain. *Mycotaxon*, 119: 89-94.
- Afshan, N. S., Khalid, A. N. and Niazi, A. R. (2011) New records of *Puccinia* Species on Poaceae from Pakistan *Mycotaxon* 118: 241-250 (0.752)
- Afshan, N. S., Khalid, A. N., Niazi, A. R. and Iqbal S. H. (2011) *Puccinia* species new to Azad Jammu & Kashmir, Pakistan, *Mycotaxon* 116: 175-182 (0.752).
- Saba, M., Khalid, A. N. and Afshan, N. S. (2011). Species of the genus *Uromyces* (link) unger (Basidiomycota, Pucciniales) from Leepa valley, Azad Jammu & Kashmir (AJ & K) Pakistan. *African Journal of Biotechnology* 10(73): 16480-16483 (0.573)
- Saba, M. and Khalid, A. N. (2011). New records of rust fungi on sedges (Cyperaceae) from Pakistan. *Mycotaxon* 117: 115–122 (0.752)
- Khalid, A. N. and M. Saba., (2011). *Puccinia cortusae* (Basidiomycota; Uredinales) on *Cortusa brotheri* (Primulaceae), new to Southern Asia (Fairy Meadows, Pakistan). *Mycotaxon* 117: 317–320 (0.752).
- Hanif, M, Khalid, A. N. and Sarwar, s., (2011). Additions to the ectomycorrhizae associated with Himalayan Cedar (*Cedrus deodara*) using rDNA-ITS. *International Journal of Agriculture and Biology*. 13 (07): 1062-1067
- Sarwar, S., Hanif, M., Khalid, A. N. and Guinberteau, J., (2011). 14 Diversity of boletes in Pakistan; focus on *Suillus brevipes* and *suillus sibiricus*. *Proceedings of the 7th International Conference on Mushroom Biology and Mushroom*. 1: 123-133.
- Afrasiab H., and Iqbal J., (2012). Genetic analysis of somaclonal variants and induced mutants of potato (*Solanum tuberosum* L) cv. Diamant using RAPD markers. *Pakistan Journal of Botany*. 44(1): 215-220.
- Afrasiab H. and Iqbal J., (2012). Biochemical and molecular characterization of somaclonal variants and included mutants of potato (*Solanum tuberosum* L) cv. Desiree. *Pakistan Journal of Botany*. 44(5): 1503-1508.
- Malik, K N., Jabeen F. Farooq, Andleeb A., Ullah S., Talpur A., A. M. M, and Akram, H. (2012). Study on the combined insecticidal effect of pyrethroid, *azadirachta indica* and boric acid on the *Bacillus thuringiensis* efficacy in *Tribolium castaneum*. *African Journal of Microbiology Research* 6(27); 5581-5585 I.F: 0.564 ISSN 1996-0808
- Malik, K.Pervaiz, S. Talpur, A. M. M, Farooq A. and Jabeen, F.(2012).Biotoxicity assay of *Escherichia coli* against *Tribolium castaneum*IOSR-Journal of Pharmacy and Biology 4(5): 40-46 ISSN 2278-3008

- Malik K., Nizammi S. Andleeb S., Farooq A., Jabeen, F. and Talpur, A. M. M, (2012). Synergistic effect of Dichlorvos+Tetramethrin, Bougainvillea glabra, Potassium chloride and Bacillus thuringiensis efficacy on Tribolium castaneum African Journal of Microbiology Research I.F: 0.564 ISSN 1996-0808
- Malik K., Nizzami S., Andleeb S., Farooq A., Jabeen F., and., Talpur M. M. A. (2012). Efficacy of dichlorvos + tetramethrin, Bougainvillea glabra, potassium chloride and Bacillus thuringiensis on Tribolium castaneum African Journal of Microbiology Research 6(48):7401-7416.
- Malik K., Nazir S., Farooq A., Jabeen F., Andleeb S., and Talpur M. M. A., (2012). Study on the combined insecticidal effect of pyrethroid, Azadirachta indica and boric acid on the Bacillus thuringiensis efficacy in Tribolium castaneum, African Journal of Microbiology Research 6(27):5574-5581.
- Malik K., Iqbal S., Jabeen F., Farooq A., Andleeb S., Ullah A., Talpur M.M.A. and Ikram H., (2012). Biotoxicity assay of Bacillus thuringiensis combined with sodium citrate, Bifenthrin + Cypermethrin and Saraca indica on Tribolium castaneum, African Journal of Microbiology Research 6(22):4667-4674.

RESEARCH COLLABORATION

• Indigenous

- Prof. Dr. Muhammad Saleem has research collaboration with Dr. Habib Ullah at LUMS and Dr. Shaukat at PCSIR, Lahore.

• Foreign Linkages

- Prof. Dr. Muhammad Saleem has foreign linkages with Imperial College. UK and Brunel University, USA
- Prof. Dr. Muhammad Saleem has foreign linkage with Director of the Institute of Evolution University of Haifa.
- Dr. Abdul Nasir Khalid has foreign linkages with Dr. E.C. Vellinga Bruns Lab Plant and Microbial Biology University of California, Berkeley, USA.
- Dr. Abdul Nasir Khalid has foreign linkages with Prof. Dr. Hanns Kreisel Zur Schwedenschanze 4, 17498 Potthagen, Germany.
- Dr. Abdul Nasir Khalid has foreign linkages Prof. Dr. G. Moreno Dpto. Biología Vegetal (Botánica) Univ. Alcalá de Henares 28871 Madrid. Spain.

• Funding Grants for R&D

- University of the Punjab has approved a budget more than 13 Million for promoting R & D activities and 8 faculty members were awarded funding from this budget for carrying out their research.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS**• Research & Development – An Overview**

Department of Microbiology and Molecular Genetics has state of the art facility for research in microbiology, genetics, and biotechnology. The more specific research areas in which most of the faculty members and their BS, MSc, MS/MPhil and PhD student are working include: human genetics, bacterial biofilm formation and its control, metal detoxification and water treatment, agricultural microbiology, biofertilizers, biopesticides, microbial ecology, industrial microbiology, drugs and antibiotics discovery, bioplastics, immunology, virology, cancer genetics and medical microbiology etc. The Research projects completed and the research papers published by the faculty members in peer reviewed national and international journals speaks about the strength of research potential of the department.

• Projects (i) Completed

- Determination of antibacterial activity of Aloe vera against biofilm forming bacteria (2010-2011). Punjab University, Lahore of worth Rs 200,000, Principal Investigator, Prof Dr Anjum Nasim Sabri.
- Immobilization of Hydrogen sulfide producing strains for detoxification of methylmercury pollutants (2010-2011). University of the Punjab, Lahore, of worth Rs. 200,000 PI, Dr. Zakia Latif.
- Isolation and characterization of synthetic pyrethroid degrading bacteria (2010-11). University of the Punjab, Lahore, of worth Rs. 200,000/- PI: Dr Sikander Sultan.
- Development of stress tolerant rice plants using tissue culture techniques (2010-2011). University of the Punjab, Lahore, worth Rs. 150,000, PI: Ms Tahira Malik
- Bacterial transformation of toxic Selenite (IV) to elemental Selenium (0) in wastewater/contaminated soil (2011). Higher Education Commission, Lahore worth 4.3 million. PI: Dr. Muhammad Faisal.
- Study of Desiccation Tolerant Bacteria From Cholistan Desert Pakistan (2010-2011). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Muhammad Faisal.
- Molecular characterization of bioplastic producing Pseudomonas. Punjab University Research Project (2010-2011), of worth Rs. 150,000, PI: Dr. Nazia Jamil.
- Industrial and Domestic wastewater as a resource of Bacteria producing Bioplastic, funded by International Foundation for Science (IFS), Sweden, (2009-2011), PI: Dr. Nazia Jamil
- Isolation and characterization of xylan degrading yeasts from local environment (2010-11). Punjab University, Lahore, of worth Rs. 125,000, PI: Dr. Abdul Rehman.
- Auxin production by rhizobacteria: ACC-deaminase activity and phytostimulation of mungbeans (2010-11). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Basharat Ali.

- Screening of desert actinomycetes for antimicrobial activity against methicillin resistant *Staphylococcus aureus* (MRSA). Punjab University Research Grant 2010-2011, of worth Rs. 150000, PI: Dr. Imran Sajid.
- Microbial columns: as source of chromium (VI) removal (2010-2011). University of the Punjab, Lahore, of worth Rs. 1, 25,000, PI: Dr. Rida Batool.
- Association of anti-telomeric DNA with SLE (2010-2011). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr Nageen Hussain
- Study of septicemia causing lactose fermenting bacteria (2010 -2011). University of the Punjab, Lahore, of worth Rs.125000, PI: Dr. Saba Riaz
- Isolation of microorganisms from currency notes and coins in circulation and antimicrobial sensitivity patterns of medically important microbes, 2010-2011. University of the Punjab, Lahore, of worth Rs.125000, PI: Dr. Saira Malik.

(ii) Newly Launched

- Screening for the antibacterial effect of ginger and turmeric on cell wall constituents and polypeptide profiling of bacterial strains. Punjab University, Lahore of worth Rs. 200,000, Principal Investigator, Dr Anjum Nasim Sabri.
- Screening for the effect of ginger extracts on embryo development and angiogenesis in chicken eggs (2011-2012). Submitted Punjab University. Principle Investigator, Dr Anjum Nasim Sabri.
- Isolation and characterization of mercury resistant nitrogen fixing bacteria and determination of their ability to detoxify mercury (2011-12). University of the Punjab, Lahore, of worth Rs. 200,000 PI: Dr. Zakia Latif.
- Isolation and characterization of biosurfactant producing bacteria from oil-contaminated soil samples (2011-12). University of the Punjab, Lahore, of worth Rs. 200,000, Principle Investigator, Dr Sikander Sultan.
- Functional and Molecular Diversity of *Pinus roxburghii* Rhizospheric Bacterial Communities (2011-12). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Muhammad Faisal.
- Screening and Optimization of Bioplastic by Bacteria using Wastewater. Punjab University Research Project (2011-2012)-PI: Dr. Nazia Jamil
- Generation of stress tolerant rice plants using tissue culture techniques (2011-2012). University of the Punjab, Lahore, worth Rs. 150,000, PI: Ms Tahira Malik.
- Isolation and characterization of thermostable alkaline protease producing bacteria from local environment (2011-12). Punjab University, Lahore, of worth Rs. 150,000, PI: Dr. Abdul Rehman.
- The insecticidal activity of streptomyces species isolated from the saline soils of Kalar Kahar, Punjab, Pakistan. Punjab University Research Grant 2011-2012, of worth Rs. 150000, PI: Dr. Imran Sajid.

- Evaluation of plant growth promoting rhizobacteria as non-rhizobial inoculants for leguminous plant (2011-12). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Basharat Ali.
- Seroprevalence of Dengue IgG and IgM antibodies in patients suspected of having Dengue fever (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, Principle Investigator, Dr Nageen Hussain.
- Analysis of polyketide synthase genes from actinomycetes and their structural comparison, (2011-12). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr. Mehboob Ahmed.
- Preparation of multi-diagnostic immune-chromatographic device to diagnose common viral infections (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr. Zaigham Abass.
- Comparison of dengue virus NS1 gene sequences from patients suffering with dengue fever (DF) and Dengue hemorrhagic fever (DHF) (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr Shafiq ur Rehman
- Hexavalent chromium reduction by bacterial strains isolated from tannery waste (2011-12). University of the Punjab, Lahore, of worth Rs. 1, 25,000, PI: Dr. Rida Batool
- Role of MSX1 mutations in Pierre Robin sequence and non-syndromic cleft lip and/or cleft palate in Pakistani population, (2011-2012). University of the Punjab, Lahore, of worth Rs.125000, PI: Dr. Saira Malik.
- Antibiotic susceptibility profile among E.coli from clinical and environmental isolates (2011-12). University of the Punjab, Lahore, of worth Rs.125000, PI: Dr. Saba Riaz.
- Effect of antibiotic resistance of isolates of Staphylococcus aureus to induce reactive metabolites in human polymorphonuclear leukocytes (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Mr. Numan Javed.

• Publications

Research Articles

- Waheed, A. and Sabri, A.N. 2012. Biofilm formation in moderately halophilic bacteria is influenced by varying salinity levels. J. Basic Microbiol., 52(5): 566-572. (IF: 1.266)
- Abbas, Z., Ali B. and Sabri, A.N. 2012. Antimicrobial activity of biocides against different microorganisms isolated from biodeteriorated paints. Pak. J. Zool., 44(2): 576-579 (IF: 0.338) (Short communication).
- Riaz, S., Faisal, M. and Hasnain, S. 2012. Prevalence and comparison of Beta-lactamase producing E. coli and Klebsiella spp. from clinical and environmental sources in Lahore, Pakistan. African J. Microbiol. Res., 6(2): 465-470. (IF: 0.539).
- Kiran, M., Afrasayab, S., Abbas, Z., Faisal, M. and Hasnain, S. 2012. Plant growth promoting capability of Azotobacter as mono and mix culture on Vigna radiata. African J. Microbiol. Res., 6: 1291-1296. (IF: 0.539).

- Sheik, C.S., Mitchell, T.W., Rizvi, F.Z., Faisal, M., Hasnain, S., McInerney, M.J. and Krumholz, L.R. 2012. Exposure of soil microbial communities to chromium and arsenic from tannery waste alters their diversity and structure. *Plos One* 7(6): 1-13. (IF: 4.092).
- Sultan, S., Mubashar, K. and Faisal, M. 2012. Uptake of toxic Cr (VI) by biomass of exopolysaccharide producing bacterial strains. *Afr. J. Microbiol. Res.*, 6: 3329-3336. (IF: 0.539)
- Sultan, S. and Hasnain, S. 2012. Chromium (VI) reduction by cell free extract of *Ochrobactrum anthropi* isolated from tannery effluent. *Bull. Environ. Contam. Toxicol.*, 89: 152-157. (IF: 1.018)
- Nasir, Z.A., Colbeck, I., Sultan, S. and Ahmad, S. 2012. Bioaerosols in residential micro-environments in low income countries: A case study from Pakistan. *Environ. Pollut.*, 168: 15-22. (IF: 3.746)
- Shamim, S. and Rehman, A. 2012. Cadmium resistance and accumulation potential of *Klebsiella pneumoniae* strain CBL-1 isolated from industrial wastewater. *Pak. J. Zool.*, 44: 203-208. (IF: 0.338)
- Shakoori, F.R., Butt, A.M., Ali, N.M., Zahid, M.T., Rehman, A. and Shakoori, A.R. 2012. Optimization of fermentation media for enhanced amino acids production by bacteria isolated from natural sources. *Pak. J. Zool.*, 44 (4): 1145-1157. (IF: 0.338)
- Noreen, S., Ali, B. and Hasnain, S. 2012. Growth promotion of *Vigna mungo* (L.) by *Pseudomonas* spp. exhibiting auxin production and ACC-deaminase activity. *Ann. Microbiol.*, 62: 411-417. (IF: 0.689)
- Hira, M., Rabbia, S., Sajid, I. and Hasnain, S. 2012. Isolation, identification and screening of endophytic bacteria antagonistic to biofilm formers. *Pak. J. Zool.*, 44(1): 249-257. (IF: 0.338)
- Batool, R., Yrjala, K. and Hasnain, S. 2012. Hexavalent chromium reduction by bacteria from tannery effluent. *J. Microbiol. Biotechnol.*, 22(4): 547-554. (IF: 1.83).
- Bashir, M.F., Haider, M.S., Rashid, N. and Riaz, S. 2012. Distribution of Hepatitis C virus (HCV) genotypes in different remote cities of Pakistan. *Afr. J. Microbiol. Res.*, 6(22): 4747-4751. (IF: 0.539)
- Zaidi, N., Swinnen, J. and Smans, K. 2012. ATP-citrate lyase: A key player in cancer metabolism. *Cancer Res.*, 72(15): 3709-3714. (IF: 7.856)
- Zaidi, N., Royaux, I., Swinnen, J. and Smans, K. 2012. ATP-citrate lyase (ACLY)-knockdown induces growth arrest and apoptosis through different cell- and environment-dependent mechanisms. *Mol. Cancer Ther.*, 11(9): 1925-1935. (IF: 5.226)
- Chypre, M., Zaidi, N. and Smans, K. 2012. ATP-citrate lyase-A mini review. *Biochem. Biophys. Res. Commun.*, 422(1): 1-4. (IF: 2.5).
- Ismail-Ben Ali, A., El Bour, M., Ktari, L., Bolhuis, H., Ahmed, M. Boudabbous, A. and Stal, L.J. 2012. *Jania rubens* associated bacteria: molecular identification and antimicrobial activity. *J. Appl. Phycol.*, 24: 525-534 (IF: 2.411).

- Sarwar, S., Ahmed, M. and Hasnain, S. 2012. Phylogenomic analysis of polyketide synthase genes in actinomycetes: structural analysis of KS domains and modules of polyketide synthases. *Int. J. Comput. Biol. Drug Design*, 5(2): 89-110.
- Brown, R.J.P., N Hudson , G Wilson , S U Rehman , S Jabbari , K Hu , A W Tarr , P Borrow , M Joyce , J Lewis , L F Zhu , M Law , N Kneteman , D. L J Tyrrell , . J A McKeating and J K Ball. 2012. Hepatitis C virus envelope glycoprotein fitness defines virus population composition following transmission to a new host. *J. Virol.*, 86(22): 11956-11966. (IF: 5.15)
- Amin, A. and Latif, Z. 2011. Isolation and characterization of H₂S producing yeast to detoxify mercury containing compounds. *Int. Res. J. Microbiol.*, 2(12): 517-525.
- Riaz, S., Faisal, M., Hasnain, S. 2011. Antibacterial and cytotoxic effect of *Acacia nilotica* on ESBL isolates. *Trop. J. Pharmaceut. Res.*, 10: 785-791. (IF 0.820)
- Nawaz, S.K. and Hasnain, S. 2011. Effects of noise exposure on catalase activity of growing lymphocytes. *Bosnian J. Basic Med. Sci.*, 11:164-167. (IF: 2.416)
- Nawaz, S.K. and Hasnain, S. 2011. Effect of ACE polymorphisms on the association between noise and hypertension in a Pakistani population. *J. Renin-Angiotensin-Aldoster. Sys.*, 12(4): 516-520. (IF: 2.416)
- Hussain, A. and Hasnain, S. 2011. Interactions of bacterial cytokinins and IAA in the rhizosphere may alter phytostimulatory efficiency of rhizobacteria. *W. J. Microbiol. Biotechnol.*, 27: 2645-2654. (IF: 2.416)
- Alvi, F.M., Choudhri, A. and Hasnain, S. 2011. Blood selenium status in normal Punjabi population of Pakistan. *J. Biol. Tarce Ele. Res.*, 143: 163-166. (IF: 2.416)
- Waheed, A., and Sabri, A.N. 2011. Alleviation of salt stress by *Halomonas* sp. and osmolytes in *Zea mays*. *Afr. J. Biotechnol.*, 10: 17778-17788. (IF: 0.573)
- Waheed, A., and Sabri, A.N. 2011. Osmoadaptation and plant growth promotion by salt tolerant bacteria under salt stress. *Afr. J. Microbiol. Res.*, 5: 3546-3554. (IF: 0.528).
- Naheed, N., Jamil, N. and Hasnain, S. 2011. Screening of contaminated soils for biodegradable plastic producing bacteria and profiling of their resistance markers. *Afr. J. Microbiol. Res.*, 5: 4097-4104.
- Sanai, M. and Hussain, N. 2011. Levels of inflammatory markers (Complement C3, C4 and CRP) in smokers. *Afr. J. Biotechnol.*, 10:19211-19217. (IF: 0.547)
- Javed, N., Afzal, N., Thair, R., Abbas, A. and Javed, K. 2011. Prevalence of multiple drug resistant *Staphylococcus aureus* in different hospitals of Lahore. *Pakistan J. Zool.* 43: 815-818. (IF: 0.338)
- Butt, S.A. and Rehman, A. 2011. Isolation of arsenite-oxidizing bacteria from industrial effluents and their potential use in wastewater treatment. *World J. Microbiol. Biotechnol.*, 27: 2435-2441. (IF: 1.532).

- Akhtar, S. and Ali, B. (2011). Evaluation of rhizobacteria as non-rhizobial inoculants for mung beans. *Aust J Crop Sci*, 5(13): 1723-1729. IF 1.632

Book / Book Chapters

- Sabri, A.N., Sabri, S., Sultan, S. 2012. Metallurgical microscopy of Bacterial biofilm representing Cr+6 conversion into Cr+3 by *Acinetobacter calcoaceticus*, *Staphylococcus aureus* and *Oscillatoria* strain. IN: *Current microscopy contributions to advances in science and technology (the "publication")* Published by FORMATEX RESEARCH CENTER - C/ Zurbaran 1, 2nd Floor, Office 1, 06002 Badajoz, Spain, PP 749-755.
- Nawaz, H and Faisal, M. 2012. Biosurfactant producing Bacteria: Screening and role in oil biodegradation. ISBN 978-3-659-16195-7. LAP Lambert Academic Publishing.
- Abdul Rauf Shakoori and Abdul Rehman" Protozoan Fauna of Industrial Wastes and their Role in Bioremediation" Published by VDM Verlag Dr. Muller GmbH & Co.KG, Dudweiler Landstr. 99, 66123 Saarbrucken, Germany.
- Nousheen Zaidi and Hubert Kalbacher. Cathepsin E, Invited chapter in: *The Handbook of Proteolytic Enzymes* 3rd Edition. 2012.

• Conferences, Seminars and Workshops etc.

- Dr. Anjum Nasim Sabri organized one day workshop on "Immunoflorescent techniques". Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, October 20, 2011.
- Dr. Anjum Nasim Sabri attended Seminar on "Conversion of Low Density Lipoprotein to the Small, Dense Pro-Atherogenic Form by Glycation with Methylglyoxal-Super-sticky 'ultra-bad' cholesterol" by Naila Rabbani. Warwick Medical School, Clinical Sciences Research Institute, University of Warwick, University Hospital, Coventry CV2 2DX, U.K. Organized by Department of Microbiology and Molecular Genetics, Punjab University, Lahore. 04 Nov, 2011.
- Dr. Anjum Nasim Sabri participated and presented talk entitled "Effect of Chromium on Biofilm Formation: Bacterial Biofilms in Association of Cyanobacterial Strain" in the 6th Asian Pacific Phycological Forum "Algae , The Future Resources" organized by Society of Phycology, Yeosu, Korea, October 9-14, 2011.
- Dr. Anjum Nasim Sabri attended a Seminar entitled "Biotechnological aspects of cyanobacteria" by Prof. Dr Shahida Hasnain. Organized by Hazara University, KPK, April 05, 2012.
- Dr. Anjum Nasim Sabri attended a seminar on Balochistan-problems and solutions. Arranged by Academic Staff association, held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies, April 17, 2012.
- Dr. Anjum Nasim Sabri attended one day seminar on Zinc and Skin by DR NAJJIA ASHRAF. Organized by MMG Department, University of the Punjab Lahore in collaboration with Abbott Pharmaceuticals, May 05, 2012.

- Dr. Anjum Nasim Sabri attended a Seminar entitled “Thalassemia” organized by Sundus Foundation, Governor House Lahore, May 17, 2012.
- Dr. Anjum Nasim Sabri attended one day workshop on CMS training for faculty, Organized by MMG Department, University of the Punjab Lahore. 07 June, 2012.
- Dr. Anjum Nasim Sabri ,attended and participated in one day workshop entitled “Invention to Innovation Summit-2012” in the University of the Punjab, Lahore, organized by IRP, ORIC and PSF, on 18 June, 2012.
- Dr. Anjum Nasim Sabri attended One day Seminar on Dengue, Organized by MMG Department, University of the Punjab Lahore, September 02, 2012.
- Dr. Anjum Nasim Sabri attended one day Seminar on “HAMLET (human α -lactalbumin made lethal to tumor cells) as a new therapeutic agent for treatment of colon cancer: A detailed molecular study” in the lecture hall of the Department on Tuesday September 03, 2012. Organized by Department of Microbiology & Molecular Genetics (MMG) in collaboration with National Academy of Young Scientists (NAYS).
- Dr. Anjum Nasim Sabri attended one day Seminar on Recent Trends in Diagnosis of Tuberculosis. Organized by MMG Department, University of the Punjab Lahore, September 04, 2012.
- Dr. Anjum Nasim Sabri attended one day seminar on “ScepterTM cell counting”. Organized by MMG Department, University of the Punjab Lahore in collaboration with Merk (PVT) Ltd. September 20, 2012.
- Dr. Anjum Nasim Sabri attended and participated in Turnitin Academy Live: Getting Students Started with Turnitin. a one-hour online class on September 4, 2012.
- Dr. Zakia Latif attended 12th. National and 3rd. International Conference of Botany organized by Pakistan Botanical Society at Quaid-e-Azam University, Islamabad, Pakistan from 1-3 September, 2012.
- Dr. Zakia Latif attended seminar on “Recent trends in diagnosis of tuberculosis” on 4th Sep. 2012 at Microbiology and Molecular Genetics, University of the Punjab, Lahore-Pakistan.
- Dr. Zakia Latif, attended training course “Punjab Employees Efficiency, Discipline and Accountability Act PEEDA Act 2006” on 8-9 Feb. 2012 held at Punjab Institute of Management and Professional Development, Government of the Punjab.
- Dr. Zakia Latif, attended one week training course “ Office Management for Officers” held at Punjab Institute of Management and Professional Development, Government of the Punjab from 12th March to 16th March 2012.
- Dr. Sikander Sultan attended: One week training course on Office Management for Officers organized by Management and Professional Development Department, Government of the

Punjab held at Punjab Institute of Management and Professional Development Lahore, March 12 – 16, 2012.

- Dr. Sikander Sultan attended one day seminar on “Zinc and Skin” by Dr. Najjia Ashraf. Organized by MMG department, University of the Punjab, Lahore in collaboration with Abbott Pharmaceuticals. May 05, 2012.
- Dr. Sikander Sultan attended one day work shop on CMS Training for Faculty. Organized by MMG Department, University of the Punjab, Lahore. June 07, 2012.
- Dr. Sikander Sultan attended one day Seminar on Dengue. Organized by MMG Department, University of the Punjab, Lahore, September 02, 2012.
- Dr. Sikander Sultan attended one day Seminar on “HAMLET (human α -lactalbumin made lethal to tumor cells) as a new therapeutic agent for treatment of colon cancer: A detailed molecular study” in the lecture hall of the Department on September 03, 2012. Organized by Department of Microbiology & Molecular Genetics (MMG) in collaboration with National Academy of Young Scientists (NAYS).
- Dr. Sikander Sultan attended one day Seminar on Recent Trends in Diagnosis of Tuberculosis. Organized by MMG Department, University of the Punjab Lahore. September 04, 2012.
- Dr. Sikander Sultan attended one day seminar “Scepter™ cell counting”. Organized by MMG Department, University of the Punjab Lahore in collaboration with Merk (PVT) Ltd..Sept 20, 2012.
- Dr Muhammad Faisal, attended and participated in one day workshop entitled “Invention to Innovation Summit-2012” in the University of the Punjab, Lahore, organized by IRP, ORIC and PSF, on 18 June, 2012.
- Ms. Tahira Malik, attended one day symposium on Dengue fever organized by microbiology and molecular genetics,PU,Lahore, 25th September,2011
- Ms. Tahira Malik, attended Seminar on “Zinc and skin” May 5, 2012.
- Ms. Tahira Malik, attended Seminar on “Conversion of Low density Lipoprotein to the small,proatherogenic form by glycation with methylglyoxal-supersticky ultra-bad cholesterol” organized by MMG, PU, Lahore, November 04, 2011.
- Dr. Nazia Jamil, attended Seminar on “Conversion of Low Density Lipoprotein to the Small, Dense Pro-Atherogenic Form by Glycation with Methylglyoxal-Super-sticky ‘ultra-bad’ cholesterol” by Naila Rabbani. Warwick Medical School, Clinical Sciences Research Institute, University of Warwick, University Hospital, Coventry CV2 2DX, U.K. Organized by Department of Microbiology and Molecular Genetics, Punjab University, Lahore. 04 Nov, 2011.
- Dr. Nazia Jamil, attended Seminar on Balochistan-problems and solutions. Arranged by Academic Staff association. ” held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies. April 17, 2012.

- Dr. Nazia Jamil, attended one day seminar on Zinc and Skin by DR NAJJIA ASHRAF. Organized by MMG department, University of the Punjab Lahore in collaboration with Abbott pharmaceuticals. May 05, 2012.
- Dr. Nazia Jamil, attended one day work shop on CMS training for faculty, Organized by MMG department, University of the Punjab Lahore. 07 June, 2012.
- Dr. Nazia Jamil, attended One day Seminar on Dengue, Organized by MMG department, University of the Punjab Lahore September 02, 2012.
- Dr. Nazia Jamil, attended one day Seminar on “HAMLET (human α -lactalbumin made lethal to tumor cells) as a new therapeutic agent for treatment of colon cancer: A detailed molecular study” in the lecture hall of the Department on Tuesday September 03, 2012. Organized by Department of Microbiology & Molecular Genetics (MMG) in collaboration with National Academy of Young Scientists (NAYS).
- Dr. Nazia Jamil, attended one day Seminar on Recent Trends in Diagnosis of Tuberculosis. Organized by MMG department, University of the Punjab Lahore. September 04, 2012.
- Dr. Nazia Jamil, attended one day seminar “Scepter™ cell counting. Organized by MMG department, University of the Punjab Lahore in collaboration with Merk (PVT) Ltd. Sept 20, 2012.
- Dr. Nazia Jamil, “Acted as Convener” in One day workshop on “Immunofluorescent Techniques” venue & organized by Department of Microbiology and Molecular Genetics University of the Punjab Lahore-Pakistan, October 20, 2011.
- Dr. Nazia Jamil, attended one day national Symposium on Frontiers in Nanotechnology organized by NUST Science Society and NAYS
- Dr Abdul Rehman, presented talk entitled “Decolourization of azo dye Synozol Red HF6-BN by fungi” in National Biotechnology Exhibition and Seminar 2010 held in Department of Zoology, GC University, Lahore on March 6-8, 2012.
- Dr. Basharat Ali, attended international workshop on “Modern techniques in structural biology” held at ICCBS, University of Karachi, from 1-4 October, 2011.
- Dr. Basharat Ali, Presented research work (Oral) titled “Rhizobacterial potential to alter auxin content and growth of *Vigna radiata* (L.)” IFS-AFASSA International Symposium on Natural Products and their Applications in Health and Agriculture Kandy, Sri Lanka, October 3-8, 2011.
- Dr. Basharat Ali, Presented research work (Oral) titled “Auxin production and ACC-deaminase activity of *Pseudomonas* and their phyto-stimulatory effect on *Vigna mungo* (L.)” in 32nd Pakistan Congress of Zoology (International) held at GC University, Lahore, March 6-8, 2012.
- Dr. Basharat Ali, attended international workshop on “Bioinformatics: Database Mining and High Throughput Genomic Analyses” held at COMSTECH, Islamabad, from March 19-21, 2012.
- Dr. Basharat Ali, Participated in “DAAD International Summer” School held at Quaid-i-Azam University, Islamabad, from 26-30th March, 2012.

- Dr. Imran Sajid, attended International Workshop on “Modern Techniques in Structural Biology” 1-2 Oct, 2011, organized by ICCB-HEJ research institute-Karachi University in collaboration with COMSTECH Islamabad, Pakistan
- Dr. Imran Sajid, gave Oral presentation in IFS – AFASSA International Symposium on Natural Products and their Applications in Health and Agriculture, October 3-8, 2011, Kandy, Sri Lanka.
- Dr. Imran Sajid, organized: In-Service Faculty Training Program at University of the Punjab in collaboration with Learning Innovation Division (LID), HEC 18-22 Oct, 2011.
- Dr. Imran Sajid, Participated in: International Workshop on Bioinformatics: Database Mining and High Throughput Genomic Analysis, organized by OIC-COMSTECH in collaboration with Sindh Institute of Urology and Transplant (SIUT), Civil Hospital Karachi, held from 19-21 March, 2012 at COMSTECH secretariat Islamabad, Pakistan.
- Dr. Imran Sajid, Participated in: International Workshop on Industrial Biotechnology, organized by OIC-COMSTECH in collaboration with Institute of Industrial Biotechnology, GC University Lahore, held from 10-12 July, 2012 at COMSTECH secretariat Islamabad, Pakistan.
- Dr. Rida Batool, attended Seminar on “Conversion of Low Density Lipoprotein to the Small, Dense Pro-Atherogenic Form by Glycation with Methylglyoxal-Super-sticky ‘ultra-bad’ cholesterol” by Naila Rabbani. Warwick Medical School, Clinical Sciences Research Institute, University of Warwick, University Hospital, Coventry CV2 2DX, U.K. Organized by Department of Microbiology and Molecular Genetics, Punjab University, Lahore. 04 Nov, 2011.
- Dr. Rida Batool, attended Seminar on Balochistan-problems and solutions. Arranged by Academic Staff association. ” held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies. April 17, 2012.
- Dr. Rida Batool, attended one day seminar on Zinc and Skin by DR NAJJIA ASHRAF. Organized by MMG department, University of the Punjab Lahore in collaboration with Abbott pharmaceuticals. May 05, 2012.
- Dr. Rida Batool, attended one day work shop on CMS training for faculty, organized by MMG department, University of the Punjab Lahore. 07 June, 2012.
- Dr. Rida Batool, attended one day Seminar on Dengue, Organized by MMG department, University of the Punjab Lahore September 02, 2012.
- Dr. Rida Batool, attended one day Seminar on “HAMLET (human α -lactalbumin made lethal to tumor cells) as a new therapeutic agent for treatment of colon cancer: A detailed molecular study” in the lecture hall of the Department on Tuesday September 03, 2012. Organized by Department of Microbiology & Molecular Genetics (MMG) in collaboration with National Academy of Young Scientists (NAYS).
- Dr. Rida Batool, attended one day Seminar on Recent Trends in Diagnosis of Tuberculosis. Organized by MMG department, University of the Punjab Lahore. September 04, 2012.

- Dr. Rida Batool, attended one day seminar “Scepter™ cell counting. Organized by MMG department, University of the Punjab Lahore in collaboration with Merck (PVT) Ltd. Sept 20, 2012.
- Dr. Rida Batool, “Acted as Convener” in One day workshop on “Immunofluorescent Techniques” venue & organized by Department of Microbiology and Molecular Genetics University of the Punjab Lahore-Pakistan, October 20, 2011.
- Dr. Rida Batool, Attended one day national Symposium on Frontiers in Nanotechnology organized by NUST Science Society and NAYS
- Dr. Nageen Hussain, gave oral presentation on “Distribution of HLA alleles in SLE patients with ACE I/D polymorphism”. in an International Conference on Environmental, Biological, social sciences and Engineering, Lucerne, Switzerland, 15-16 October, 2012.
- Dr. Saba Riaz, attended symposium: Tuberculosis-Epidemiology, Diagnostics and therapeutics. Institute of Biochemistry and Biotechnology, 3 November 2011.
- Dr. Saba Riaz, Organized. One day seminar on Recent Trends in Diagnosis of Tuberculosis, 04 September, 2012.
- Dr. Saba Riaz, presented Poster at 15th International Congress on Infectious Diseases, Organized by International Society for Infectious Diseases. Bangkok, Thailand 13-16 June, 2012.
- Dr. Zaigham Abass, Organized 1st Youth Innovative Workshop at University of the Punjab in collaboration with National Academy of Young Scientists and Pakistan Science Foundation. (11-12 August, 2012).
- Dr. Zaigham Abass, attended Faculty Orientation program at University of the Punjab. (3-6 July, 2012).
- Dr. Zaigham Abass, organized training workshop on Basic Bioinformatics Skills at Government College University, Faisalabad. (11 May, 2012).
- Dr. Zaigham Abass, Attended training program on Strategic Management: Performance Improvements in Organizations at University of The Punjab in Collaboration with National Productivity Organization, Ministry of Industries, Government of Pakistan. (03 February, 2012).
- Dr. Zaigham Abass, organized One day Workshop on Young Researchers skill development and NAYS Emerging Ideas Conference at University of the Punjab. (07 January, 2012).
- Dr Mehboob Ahmed Presented in 6th Asian Pacific Psychological Forum (APPF 2011), Yeosu, Korea, 9-14, October 2011
- Dr Mehboob Ahmed Attended Five days In Service Faculty Training Program by Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore and Learning Innovation Division (LID), Higher Education Commission (HEC) Pakistan, 18 – 22 October, 2011
- Dr Mehboob Ahmed Acted as Judge in exhibition of research project poster presentation, in Provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with Intel-corporation Pvt. Ltd., December, 2011

- Dr Mehboob Ahmed Attended Computational Biology and Bioinformatics Workshop (C2BW), organized by the Department of Biology, School of Science and Engineering, LUMS, Lahore, 09 – 13 January, 2012
- Dr Mehboob Ahmed Attended a seminar on Balochistan-problems and solutions. Arranged by Academic Staff association. ” held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies. April 17, 2012.
- Dr Mehboob Ahmed Attended one day seminar on Zinc and Skin by DR NAJJIA ASHRAF. Organized by MMG department, University of the Punjab Lahore in collaboration with Abbott pharmaceuticals. May 05, 2012.
- Dr Mehboob Ahmed Attended Training Workshop on "Computer Forensics", NCRD, (MoP&TT) Islamabad, Pakistan, 14 - 16 May, 2012
- Dr Mehboob Ahmed, presented in SAARC Regional Conference on “New Frontiers in Agricultural Genomics and Biotechnology”, hosted by NIGAB at Marriott Hotel Islamabad, 05-07 June, 2012
- Dr Mehboob Ahmed, attended and participated in one day workshop entitled “Invention to Innovation Summit-2012” in the University of the Punjab, Lahore, organized by IRP, ORIC and PSF, on 18 June, 2012.
- Dr Mehboob Ahmed, attended one day work shop on CMS training for faculty, Organized by MMG department, University of the Punjab Lahore. 07 June, 2012.
- Dr Mehboob Ahmed, presented in Conference on “Agriculture and Food Security Issues in Global Environmental Perspectives”, by Faculty of Agriculture Rawalakot, The University of Poonch, Rawalakot, 11-13 July, 2012
- Dr Mehboob Ahmed, attended One day Seminar on Dengue, Organized by MMG department, University of the Punjab Lahore September 02, 2012.
- Dr Mehboob Ahmed, attended one day Seminar on “HAMLET (human α -lactalbumin made lethal to tumor cells) as a new therapeutic agent for treatment of colon cancer: A detailed molecular study” Organized by Department of Microbiology & Molecular Genetics (MMG) in collaboration with National Academy of Young Scientists (NAYS). September 03, 2012.
- Dr Mehboob Ahmed, attended one day Seminar on Recent Trends in Diagnosis of Tuberculosis. Organized by MMG department, University of the Punjab Lahore. September 04, 2012.
- Dr Mehboob Ahmed, attended one day seminar “Scepter™ cell counting. Organized by MMG department, University of the Punjab Lahore in collaboration with Merk (PVT) Ltd..Sept 20, 2012.
- Dr Mehboob Ahmed Presented in Workshop on “Algal Collection & Recent Taxonomy Of Chlorophycota”, by Department of Botany, GC University Lahore, 25-26 September, 2012
- Mr. Numan Javed, gave poster presentation at the 2012 meeting on “Bacteria, Archaea & Phages” 21st -25th August, 2012 in Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, USA.

- Mr. Numan Javed, Organized: In-Service Faculty Training Program at University of the Punjab in collaboration with Learning Innovation Division (LID), HEC 18-22 Oct, 2011.
- Mr. Yasir Rehman, Participated in “1st National Training Course on Bacterial Identification and Metagenomics” NIBGE, Faisalabad, Pakistan (5th-9th March, 2012).
- Mr. Yasir Rehman, Participated in “Invention to Innovation Summit 2012” University of the Punjab, Lahore Pakistan (18th June, 2012).
- Mr. Yasir Rehman, Presented poster entitled “Arsenic-Reducing Bacteria, in the conference, Agriculture and Food Security Issues in Global Perspectives, Faculty of Agriculture, Rawalakot, The University of Poonch, July, 2012.

RESEARCH COLLABORATION

• Indigenous

- Ms. Maleeka Zaheer (04-04-2012 to 10-06-2012) of the Institute of Biotechnology and Bioinformatics, UVAS, Lahore worked on biofilms, under the supervision of Prof. Dr. Anjum Nasim Sabri.
- Ms. Ayesha Dildar, MPhil student King Edward Medical College (MPhil in progress), under the supervision of Prof. Dr. Anjum Nasim Sabri.
- Ms. Riffat Yousuf of the Institute of Biotechnology and Bioinformatics, University of Veterinary and Animal Sciences completed internship from April to June, 2012, under the supervision of Dr. Muhammad Faisal.
- Mr Adeel, BS student, CEES, PU, completed his research under the Co- supervision of Dr. Nazia Jamil.
- Ms. Fatima Muslim and Ms. Sunila Yousaf of the College of Home Economics, Gulberg, Lahore, completed their MSc research, from March to September, 2012 under the supervision of Dr. Imran Sajid.
- Ms. Attia and Ms. Rabila of the, faculty of Biotechnology and Informatics, Balochistan University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta, completed a part of their MS research, from June to August, 2012, under the supervision of Dr. Imran Sajid.
- Mr. Asmat Ullah of the Department of Microbiology, University of Balochistan, Quetta, completed one month internship under the supervision of Dr. Imran Sajid.
- Ms. Aqsa Abbas of the Department of Biochemistry and Biotechnology, Islamia University of Bahawalpur (IUB) completed internship from 5th June to 18th July-2012 under the supervision of Dr. Imran Sajid.
- Mr. Usman Aftab, PhD scholar under the supervision of Dr. Imran Sajid of our department did collaborative experiments related to the antitumor assays against different human cell lines, in Veterinary Research Institute (VRI) Lahore.

- Ms Taiba Afreen and Ms Qurat-ul-Ain of the Institute of Biotechnology and Bioinformatics, University of Veterinary and Animal Sciences completed internship, from April to June, under the supervision of Dr. Mehboob Ahmed.
- **Foreign Linkages**
 - Robert Thomas Bachmann, Universiti Kuala Lumpur. Malaysian Institute of Chemical and Bioengineering Technology. Lot 1988 Taboh Naning, 78000 Alor Gajah Melaka, Malaysia.
 - Ting Yen Peng (Associate Professor), Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore.
 - Prof. Dr. Juliana A. Ramsay, Chemical Engineering, Queen's University, Canada
 - Dr. Colin Jackson, Department of Biology, The University of Mississippi, USA
 - Prof. Dr. Jurgen Rohr, Director: Drugs Discovery Division, Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, USA.
 - Prof Dr. Robert Capon, Director: Structural Biolog Division, Institute for Molecular Biosciens, University of Queensland, Australia
 - University of Helsinki, Finland
 - Dr. Luisa Martinez-Pomares, School of Molecular Medical Sciences. University of the Nottingham. UK.
 - Dr. Jonathan K Ball, Professor, University of Nottingham, UK
 - Dr. Arvind Patel, Honorary lecture, Medical Research Council, University of Glasgow, UK
 - Dr. Jean Dubuisson, Center for Infection & Immunity of Lille (CIIL), Inserm U1019, CNRS UMR8204, Univ Lille Nord de France
 - Dr. Mansun Law, CSripps Research institute, Department of Immunology and Microbial Science, California Campus, US
 - Dr. Mats A A Persson, Molecules of Man AB, Mossvägen 12, Sweden
 - Steven Fount, Professor, Stanford University Blood Center, Hillview Avenue, Palo Alto, CA

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

- **Conferences, Seminars and Workshops etc.**
 - Two Day workshop on Small Area Games organized by Dept. of Sports Sciences.

DEPARTMENT OF ZOOLOGY

- **Research & Development – An Overview**
 - The Department of Zoology, a discipline of natural sciences, meets the need of trained manpower in a vast basic and interdisciplinary framework concerning animal sciences. The department has earned international recognition for academic excellence and prominence in various fields of research like Cell, Biology, Molecular Biology, Physiology, Developmental Biology, Entomology,

Microbiology, Palaeontology, Parasitology, Environmental Biotechnology, Toxicology, Clinical Endocrinology, Fisheries etc.

- Fish Research Farm comprises an area of 5 acres, including nursery ponds, research ponds and production ponds. Students are working in various areas of fisheries such as fish disease, fish physiology, fish nutrition etc; taking full benefits of this facility created at Quaid-e-Azam Campus, Lahore. Students from other universities also use the facilities of Fish Research Farm for their studies. In addition to teaching and research some fish is also available for sale to the faculty and staff members of the Punjab University. Approximately 2500-3000kg fish is annually sold to the employees of Punjab University. In near future the Fish Research Farm will be upgraded as Institute of Aquaculture, where teaching and research will be carried out at undergraduate and postgraduate level for the development of fisheries and aquaculture sector.
- In view of economic importance of honeybee farming, University of the Punjab has embarked upon research and development activities on honeybee from 2004 onwards. The European bee *Apis mellifera* farm comprising 200 hives has been established at the campus. Research work is being carried out for improvement in management techniques, quality queen breeding and control of pests and diseases to increase honey yield of colonies. Further infra-structure is being developed for teaching and research facilities. Beekeeping training programmes and workshops for honeybee management have been organized at the campus for dissemination of technical knowledge among students, farmers, extension workers, officers of allied department and hobbyists. Special emphasis is being given on generating awareness about the crucial factor of bee pollination required for increased productivity of oilseed, vegetable seed, fodder seed crops and fruits in Pakistan.
- Most of the research projects going on in the department are funded by Higher Education Commission, Pakistan Agriculture Council, Pakistan Science Foundation, University of the Punjab, Lahore and some other funding agencies.

• **Projects (i) Completed (during 2011)**

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)	Main Goals
Prof. Dr. Tanveer Akhtar/ University of the Punjab	Genetic studies of Leukemia in Pakistan population.	0.25	To identify gene variation in Leukemia.
Prof. Dr. Syed Shahid Ali/ University of the Punjab	Screening, identification and characterization of celulolytic bacteria from the local bacterial isolates.	0.25	Te search for the local bacterial isolates and enzymes, which can be used to upgrade the cellulosic waste to high quality products.

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)	Main Goals
Prof. Dr. Javed Iqbal Qazi/ University of the Punjab	Cultivation of H ₂ -yielding bacteria in food wastes	0.25	To provide biohydrogen, a clean, environmentally compatible and future fuel, from food wastes in economically feasible way.
Dr. Zafar Iqbal / University of the Punjab	Fungal infections in some freshwater fishes.	0.2	To investigate fungal infections in some ornamental fishes.
Dr. Nabila Roohi / University of the Punjab	Identification and prognostic significance of protein biomarkers associated with breast cancer in women	0.15	To identify bro markers of breast cancer.
Dr. Abida Butt/ University of the Punjab	Effect of size and density of prey on the web sttucture of Neoscona theisi (Araneae : Arancidae)	0.15	To check plasticity in the web structure of N. theisi.
Dr. Azmat Jadoon / University of the Punjab	Effect of Neem (Azadirachta indica) to DMBA induced mammary gland tumor in female rats.	0.15	To see the protective effect of Azadirachta indica (Neem) on mammary gland tumor and determine Therapeutic effect of Azadirachta indica (Neem) on mammary gland tumor.
Dr. Najma Shaheen / University of the Punjab	Molecular characterization of bacterial isolates form contract lens solution and automicrobial efficacy of commercial lens solution.	0.15	Isolation of pathogenic base from lens solution.
Dr. Nadeem Sheikh / University of the Punjab	Diet induced obesity and inflation studies in rats. Impact on liver functionality.	0.15	Liver function under high fat diet.
Dr. Ayesha Aihetasham/ University of the Punjab	Effect of plant extracts of Aloc barbadensis, Allium sativum, Ficus racemosa and Ficus Bengalensis on Heterotermes indicola (Wasmann)	0.15	To study the toxicity of different plant extracts to compare which

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)	Main Goals
			one is more targeted and to study the percentage consumption of <i>H. indicola</i> (Wasman) on extracts from 5 plant species.

(ii) Newly Launched (during 2012)

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)
Prof. Dr. Tanveer Akhtar/ University of the Punjab	1. Malaria: molecular basis of drug resistance in Pakistan scenario. Sponsoring Agency: Higher Education Commission Pakistan [PIN#074-0551-Bm4-033] 2. A Comprehensive analysis of BCR-ABL, kinase domain mutations in CML patients receiving Imatinib treatment and their association with resistance/susceptibility to Imatinib. Sponsoring Agency: Higher Education Commission Pakistan 3. The response evaluation of Acute Myeloid Leukemia (AML) patients with treatment in relation to fusion oncogenes and gene mutations from Pakistan. Sponsoring Agency: Higher Education Commission Pakistan (Pin # 106-1333-Bm6-031)	0.25
Prof. Dr. Javed Iqbal Qazi/ University of the Punjab	Cultivation of H ₂ -yielding bacteria in food wastes, sponsored by University of the Punjab, Lahore (2011-2012).	0.25
Dr. Zafar Iqbal / University of the Punjab	Parasitic Fauna of Important Tropical Ornamental Fishes	0.2
Dr. Nabila Roohi / University of the Punjab	Identification and prognostic significance of protein biomarkers associated with breast cancer in women	0.2
Dr. Najma Shaheen / University of the Punjab	Toxicological assessment of essential oils of selected aromatic plants belonging to family Ruteceae 2012-2013	0.15
Dr. Farah Rauf Shakoori/ University of the Punjab	"Isolation, Identification and Molecular Characterization of Ciliates". 2011-2012	0.2
Dr. Abida Butt/ University of the Punjab	1. Effects of agricultural practices and refugia on pest control potential of spider residing rice fields of Punjab, Pakistan. Three years (Aug.	0.2

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)
	2009 to Jul. 2012) Sponsoring Agency: Pakistan Science Foundation 2. Effect of alternative prey and habitat structure on cannibalism in <i>Lycosa terrestris</i> (Araneae, Lycosidae) 2012 Sponsoring Agency: PU Lahore.	
Dr. Nadeem Sheikh	1. Toxic effects of acute intra-peritoneal administration of iron and copper in Wistar Rat. 2. Exchange by promoting quality education research and training in South and South East Asia) Georg-August University, Goettingen, Germany. (2011-15). 3. Exchange by promoting quality education research and training in South and South East Asia) Georg-August University, Goettingen, Germany. (2012-16)	0.15
Dr. Ayesha Ahtesham/ University of the Punjab	Impact of plant extracts of <i>Datura alba</i> , <i>Lantana camara</i> , <i>Eucalyptus globules</i> , <i>Carica papaya</i> , <i>Piper nigrum</i> and <i>Trachyspermum copticum</i> on <i>Heterotermes indicola</i> (Wasmann)	0.15

• **Publications**

Prof. Dr. Muhammad Akhtar

- Khan, M.A, Akhtar, M. and Ikram T. (2012). True ungulates from the Nagri Type Locality (Late Miocene), Northern Pakistan. J. Anim. Pl. Sci. Vol. 22(1)
- Ghaffar, A., Akhtar, M., Khan, M.A., Khan, A.M., Samiullah, K. and Iqbal, M. (2012). Discovery of Antler from a New Site in the Pinjor Formation (Pleistocene) of Pakistan. Journal of Geological Society, India, Vol. 80
- Ghaffar, A. and Akhtar, M. (2012). New fossil record of *Hyaenictitherium pilgrimi* (Carnivora: Hyaenidae) from Dhok Pathan Formation of Hasnot, Pakistan. Swiss J. Palaeontol.
- Samiullah, K. and Akhtar, M. (2012). New fossil remains of *Listriodon* from the Chinji Zone near Dhok Bun Ameer Khatoon, Chakwal District, Salt Range, Punjab, Pakistan. J. Sci. Technol. Vol 31(1)
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- Shehzadi, A. and F., Shakoori F.R. 2011. .In silico Study of Pomiscuous MHC I and MHC II Binding Epitopes of HINI Proteome of Asian Origin and Phylogenetic analysis. Proc. Pakistan Congr. Zool. 31: 6

Dr. Najma Shaheen:

- Khan S. Y., Khan A., Arshad M., Tahir H. M., Mukhtar M.K., Ahmad K. R and Arshad N. (2012). Irrational use of antimalarial drugs in rural areas of eastern Pakistan: a random field study. BMC Public Health. (IF = 01.997). 12: 941-952

Dr. Zulfiqar Ali:

- Fehmeeda Bibi, Zulfiqar Ali, Shafqat Nawaz, Qaisrani, Saima Shelly Yaqoob, Syedah Andleeb, (2012). Biodiversity and its uses at Taunsa Barrage Wildlife Sanctuary, Pakistan. The Journal of Animal and Plant Sciences. 23(1)
- Fehmeeda Bibi and Zulfiqar Ali (2012). Measurement of Diversity Indices of Avian Communities at Taunsa Barrage Wildlife Sanctuary, Pakistan. The Journal of Animal and Plant Sciences. 23(2).

Dr. Ayesha Ahtesham:

- Aihetasham, A. and Iqbal, S., 2012. Feeding preferences of *Microcerotermes championi* (Snyder) for different temperatures under forced and choice feeding conditions in laboratory and field. Pakistan J. zool., 44(4): 1137-1144.
- Akhtar, M.S., Aihetasham, A., Saeed, M. and Abbass, G., 2012. Ades survey following a dengue outbreak in Lahore, Pakistan, 2011. Dengue Bulletin, 36:87-93
- Dr. Akbar Khan
- Akbar Khan, M., Akhtar, M. & Ikram, T., 2012. True ungulates from the Nagri type locality (late Miocene), northern Pakistan. The Journal of Animal and Plant Sciences, Supplementary Series, 1: 1-59 (Impact factor: 0.585).
- Akbar Khan, M. & Akhtar, M., 2012. Tragulidae (Artiodactyla, Ruminantia) from the Chinji Formation (Middle Miocene) of Pakistan. Turkish Journal of Earth Sciences, 21: in press (doi:10.3906/yer-1106-6). (Impact factor: 1.00).
- Akbar Khan, M., Akhtar, M., Iliopoulos, G. & Hina, 2012. Tragulids (Artiodactyla, Ruminantia, Tragulidae) from the Middle Siwaliks of Hasnot (late Miocene), Pakistan. Rivista Italiana di Paleontologia e Stratigrafia, 118(2): 325-341. (Impact factor: 0.75).

- Khan, A. M., Cerdeno, E., Akbar Khan, M. & Akhtar, M., 2012. New Alicornops (Rhinocerotidae) remains from Lower and Middle Siwaliks, Pakistan. *Annales de Paléontologie*. in press. <http://dx.doi.org/10.1016/j.annpal.2012.10.003>. (Impact factor: 1.00).
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M. & Ikram, T., 2012. *Giraffokeryx* (Artiodactyla-Mammalia) remains from the Lower Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 44(6): 1623-1631. (Impact factor: 0.338).
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M., Siddiq, M. K. 2012. *Giraffa punjabiensis* (Giraffidae: Mammalia) from Middle Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 44(6): 1689-1695. (Impact factor: 0.338).
- Ali, M., Akbar Khan, M. & Akhtar, M., 2012. New fossils of *Elachistoceras* (Bovidae, Mammalia) from the Chinji Formation (Middle Miocene) of Pakistan. *Pakistan Journal of Zoology*, 44(4): 909-913. (Impact factor: 0.338).
- Bhatti, Z. H., Akbar Khan, M. & Akhtar, M., 2012. *Hydaspitherium* (Artiodactyla, Giraffidae) from the Dhok Pathan Formation of the Middle Siwaliks, Pakistan: New Collection. *Pakistan Journal of Zoology*, 44(3): 799-808. (Impact factor: 0.338).
- Ghaffar, A., Akhtar, M., Akbar Khan, M., Khan, A. M., Samiullah K. & Iqbal, M. 2012. Discovery of antler from a new site in the Pinjor Formation (Pleistocene) of Pakistan. *Journal of the Geological Society of India*, 80: 119-122. (Impact factor: 0.685).
- Khan, A. M., Akhtar, M., Akbar Khan, M. & Shaheen, A., 2012. New fossil remains of *Brachypotherium perimense* from the Chinji and Nagri formations of Pakistan. *The Journal of Animal and Plant Sciences*, 22(2): 347-352. (Impact factor: 0.585).

Dr. Abdul Majid Khan:

- Khan, A. M., Akhtar, M., Akbar Khan, M. & Shaheen, A., 2012. New fossil remains of *Brachypotherium perimense* from the Chinji and Nagri formations of Pakistan. *The Journal of Animal and Plant Sciences*, 22(2): 347-352. (Impact factor: 0.585).
- Khan, A. M., Cerdeno, E., Akbar Khan, M. & Akhtar, M., 2012. New Alicornops (Rhinocerotidae) remains from Lower and Middle Siwaliks, Pakistan. *Annales de Paléontologie*. in press. <http://dx.doi.org/10.1016/j.annpal.2012.10.003>. (Impact factor: 1.00).
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M. & Ikram, T., 2012. *Giraffokeryx* (Artiodactyla-Mammalia) remains from the Lower Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 44(6): 1623-1631. (Impact factor: 0.338).
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M., Siddiq, M. K. 2012. *Giraffa punjabiensis* (Giraffidae: Mammalia) from Middle Siwaliks of Pakistan. *Pakistan Journal of Zoology*, 44(6): 1689-1695. (Impact factor: 0.338).

- Ghaffar, A., Akhtar, M., Akbar Khan, M., Khan, A. M., Samiullah K. & Iqbal, M. 2012. Discovery of antler from a new site in the Pinjor Formation (Pleistocene) of Pakistan. *Journal of the Geological Society of India*, 80: 119-122. (Impact factor: 0.685).
- Khan, A.M.,* Cerdeño, E., Khan, M. A., Ali, M. and Akhtar, M., 2011. *Chilotherium intermedium* (Rhinocerotidae) from the Siwaliks of Pakistan: Systematic implications. *Pakistan journal of Zoology*, 43(4): 651-663.
- Khan, M. A., Khan, A. M., Ghaffar, A., Iqbal, M. and Akhtar, M., 2011. New Fossil Locality in the Neogene of Lava. *Pakistan journal of Zoology*, 43(1): 61-72.
- Ghaffar, A., Akhtar, M., Khan, M. A., Samiullah, K. and Khan, A. M., 2011. *Cervus cf. rewati* (Cervidae, Mammalia) from the Pliocene Dhok Pathan Formation (Middle Siwaliks), Pakistan. *Austrian Journal of Earth Sciences*, 104(1): 107-113.

Dr. Chaman Ara:

- Asmatullah, Fatima Bashir, Chaman Ara. Toxic Potential of Rifadin in Developing Mice. *J Anim Prod Adv* 2012, 2(4): 189-198
- Asma Rashid, Asmatullah, Nabiha Zara and Chaman Ara. Testicular Toxicity Induced by Deltamethrin in Albino Mice. *Pakistan J. Zool.*, vol. 44(5), pp. 1349-1353, 2012.

• Publications

- Bano, A.S., and Qazi, J.I., 2011. Soil buried Mild Steel Corrosion by *Bacillus cereus*-SNB4 and its Inhibition by *Bacillus thuringiensis*-SN8. *Pakistan J. Zool.* 43(3): 555-562. (IF 0.2)
- Chaudhary, N. and Qazi, J.I. 2011. Lignocellulose for ethanol production: A review of issues relating to bagasse as a source material. *African Journal of Biotechnology*. 10(8): 1270-1274. (IF 0.565)
- Nazir, S., Anwar, J., Munawar, M.A. and Qazi, J.I., 2011. Chromium(III) chelate of deoxyalliin and its bioactivity. *Journal of Coordination chemistry*. 64(8): 1344-1350. (IF 0.825)
- Sattar, S., Farmanullah, Saljoqi, A., Arif, M., Sattar, H, and Qazi, J.I. 2011. Toxicity of some new insecticides against *Trichogramma chilonis* (Hymenoptera: Trichogrammatidae) under laboratory and extended laboratory conditions. *Pakistan J. Zool.* 43(6): 1117-1125. (IF 0.2)
- Jabeen, F. and Qazi, J.I. 2011. Production and optimization of detergent compatible thermostable alkaline protease from *Bacillus cereus* FJ10. *Journal of Scientific & Industrial Research*. 70: 1042-1048. (IF 0.359)
- Faiz, M., Qureshi, A. and Qazi, J.I. 2011. Molecular characterization of different fusion oncogenes associated with childhood acute lymphoblastic leukaemia from Pakistan. *IJAVMS*. 5(5): 497-507.
- Faiz, M., Qazi, J.I. and Qureshi, A. 2011. High prevalence of BCR-ABL fusion transcripts with poor prognostic impact among adult ALL patients: report from Pakistan. *Asia-pacific J. Clinical Oncology*. 7: 47-55. (IF 0.232)

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

Prof. Dr. Tanveer Akhtar:

- Joint Conference on emerging and re-emerging epidemics affecting GLOBAL HEALTH. Antimalarial Drug Resistance in vitro Studies against Plasmodium Falciparum in Punjab, Pakistan, Venice, Italy, October 21 - 26, 2012
- Joint Conference on emerging and re-emerging epidemics affecting GLOBAL HEALTH. Investigation of biochemical composition of hydatid cyst fluid from ruminants and humans in Pakistan. Venice, Italy, October 21 - 26, 2012
- 54 ASH Annual Meeting and Exposition Blood (ASH Annual Meeting Abstracts) 2012. Detection of five common fusion oncogenes in Pakistani children with acute lymphoblastic leukemia and their association with clinical pattern and treatment outcome Atlanta, GA USA Dec 8-11, 2012.
- 54 ASH Annual Meeting and Exposition Blood (ASH Annual Meeting Abstracts) 2012. Characterization of common fusion oncogenes as prognostic molecular identities in adult acute lymphoblastic leukemia identifies the need for genetic testing at presentation, molecular prognostication and differential treatment Atlanta, GA USA Dec 8-11, 2012

Prof. Dr. Javed Iqbal Qazi:

- Participated in one day symposium on “DNA Barcoding: a promising tool for species identification and biodiversity digitization” January 20, 2012. National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.
- Attended seminar on “Molecular Signaling for Fat and Bone Synthesis” by Prof. Dr. Amjad Javed, Institute of Oral Health Research School of Dentistry, University of Alabama at Birmingham USA on Thursday, March 29, 2012 at 11:30 AM in School of Biological Sciences University of the Punjab, Lahore.
- Participated in two days workshop on “Potential biotech industry for entrepreneurs in Pakistan” at NIBGE, Faisalabad on 18-19 April, 2012.
- Participated by presenting poster on bioenergy research in Invention to innovation Summit June 18, 2012 win “Innovation award” Conducted at Al-Razzi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Participated National Seminar on Current Status of Food Industry in Pakistan: Threats and Challenges. September 06, 2012. Organized by PCSIR Laboratories Complex, Lahore.
- Participated by presenting poster on “Altered physico-chemical parameters of river Ravi, segment subjected to urban pollutants” in 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6th – 8th) Poster-18 pp 330.
- Participated by presenting poster on “Urban pollutants affect negatively the fatty acid profiles of rohu from river Ravi” in 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6th – 8th) Poster-20 pp 331.

- Participated by presenting poster on “Photofermentative hydrogen production from starch manufacturing wastes” in 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6th – 8th) Poster-23 pp 333.

Prof. Dr. Muhammad Naeem Khan:

- National seminar on “Management of open water Fisheries in Pakistan, issues and options”, Promotion of recreational fisheries in Pakistan, Department of Fisheries, Government of the Punjab, Chashma Lake, District Mianwali, April 28, 2012.
- Training Seminar on “Aquaponics”, Department of Zoology, University of the Punjab, Lahore, March 20-22, 2012.
- National seminar on World Water Day 2012, Water and Food Security, “Water cycle & aquaculture”, University of Veterinary & Animal Sciences (UVAS), Ravi Campus, Pattoki-Pakistan, March 22, 2012.
- 32nd Pakistan Congress of Zoology, (International congress), Zoological Society of Pakistan, Government College University Lahore, Chair, Session on Fisheries, March 6-8, 2012.
- Prof. Dr. Muhammad Shafiq Ahmad
- Use of Geospatial Technology for Habitat Evaluation of Western Tragopan (*Tragopan melanocephalus*) in selected areas of AJK, Pakistan (Abstract).
- In: 32nd Pakistan Congress of Zoology (International). March 6 - 8, 2012. Lahore, Pakistan. pp 273. Abstract # FEWFM 56.
- Strategies for Conservation of Endangered Ecosystems.
- International Symposium held on 16-18 April, 2012 at Department of Botany, University of Agriculture Faisalabad, Pakistan.
- Spatial genetic analysis of desert hares in Pakistan. 4th World Lagomorph Conference, Vienna Austria, 23-27 July, 2012. (Poster presented)
- World Fisheries Day 2012, organized by University of Veterinary and Animal Sciences, at Pattoki Campus in Collaboration with HEC-BC INSPRE and BC-SPEKE Project, Nov. 23, 2012

Dr. Zafar Iqbal:

- Attended 32rd Pakistan Congress of Zoology at G.C.U Lahore, 6-8 March, 2012.
- 8th National Honey Bee Training Workshop held at Zoology Department, P.U. Lahore, 12-16 March, 2012. (Organized and attended)
- “Training Workshop on Aquaponics”, By Fischgruen Switzerland held at Zoology Department P.U Lahore, 20-22 March, 2012. (Organized and Attended)

Dr. Abida Butt:

- One symposium on DNA Barcoding: A promising tool for species identification and biodiversity digitization. 30th January 2012, NIBGE, Faisalabad
- 32nd Pakistan congress of Zoology (International). G. C. Univ. Lahore

- Workshop on “Species distribution modeling techniques”. University of agriculture, Faisalabad. 10-14 April 2012.
- Dr. Farah Rauf Shakoori
- 32nd Pakistan Congress of Zoology (International) held under the auspices of the Zoological Society of Pakistan at, GC University, 2012, March, 6-8 2012 and Co-chaired Cell Biology, Molecular Biology, session.
- Attended TWAS meetings in China (2012)
- Dr. Nabila Roohi
- 32nd Pakistan Congress of Zoology (International) held under the auspices of the Zoological Society of Pakistan at, GC University, 2012, March, 6-8 2012

Dr. Najma Shaheen:

- DNA BARCODING at NIBGI Faisalabad Jan. 2012
- 32nd congress of Zoology at GCU, Lahore 2012 (presented article on effects of selected essential oils on the contact lens associated isolates).

Dr. Nadeem Sheikh:

- Naz N., Ahmad S., SHEIKH N., Mihm S., Ramadori G. and Malik I.A. Ferritin L is the sole serum ferritin constituent and a positive hepatic acute phase protein J Cell Sci Ther 3(8);99. 2nd Cell Science & Stem Cell Research November 12-14, 2012 Hilton San Antonio Airport, USA.
- Naz N., Malik I., Sheikh N., Ahmad S., Khan S. and Ramadori G. Ferroportin-1 behave as a negative acute phase protein in rat liver. Z Gastroenterol 2012; 50 - K375 DOI: 10.1055/s-0032-1324309 [Impact factor 1.026]
- Abbas A.S., Abbasi M.H. and Sheikh N. NAFLD and associated changes in serum Pro-hepcidin, Iron, Ferritin R levels and total iron binding capacity in weaning Rattus norvegicus. Z Gastroenterol 2012; 50 - K035 DOI: 10.1055/s-0032-1323970 [Impact factor 1.026]
- Shafiq M., Zia N. and Sheikh N. Macrocytic anemia and Liver inflammation by Eucalyptus oil. Z Gastroenterol 2012; 50 - K015. DOI: 10.1055/s-0032-1323950 [Impact factor 1.026]
- Abbas A.S. and SHEIKH N. Dietary influence on Serology of male and female Wistar rats (adult). Hepatology International, 2012, 6(1) 280 [Impact factor 2.963]
- Abbas A.S. and SHEIKH N. and Tariq A. Impact of fatty diet on the serum protein profile of weaning Wistar rats Hepatology International. 2012 6(1); 279 [Impact factor 2.963]
- SHEIKH N., Shafiq M. Acute Phase Response and water retention induced by Peppermint (Mentha piperita) oil. Hepatology International. 2012. 6(1); 69 [Impact factor 2.963]
- SHEIKH N., Shafiq M. and Zia N. Intra luminal Eucalyptus oil administration induced Hyperbilirubinemia and hepatocytic injury. Hepatology International. 2012, 6(1); 70 [Impact factor 2.963]
- Abbas A. S. and SHEIKH N. Dietary NAFLD (Non-alcoholic fatty liver disease) induced thrombocytopenia and effects of Nigella sativa and Plantago ovata presented in the 32nd

Pakistan congress of zoology held under the auspices of zoological society of Pakistan at GCU, Lahore on March 06-08, 2012 (PP62).

- Abbasi M.H., Khawar M.B., Mustafa G., Fatima S., Idnan M. and SHEIKH N. Neutrophilia and transaminase activity during thioacetamide induced acute phase reaction in rats. presented in the 32nd Pakistan congress of zoology held under the auspices of zoological society of Pakistan at GCU, Lahore on March 06-08, 2012 (PP81).
- Abbasi M.H., Idnan M., Mustafa G., Khawar M.B., Fatima S., and SHEIKH N. Hematological and serological changes during Nerium oleander induced acute phase response presented in the 32nd Pakistan congress of zoology held under the auspices of zoological society of Pakistan at GCU, Lahore on March 06-08, 2012 (PP62).
- presented in the 32nd Pakistan congress of zoology held under the auspices of zoological society of Pakistan at GCU, Lahore on March 06-08, 2012 (PP62).

Dr. Ayesha Aihetasham:

- One week training course on office management for officers, held at Punjab Institute of Management and professional development arranged by Management and Professional Development Department , Govt. of the Punjab on 10-09-2012 to 14-09-2012
- Workshop on research ethics, endnote and turnitin held on 2-3 Oct, 2012 at Department of Library and Information Science, University of the Punjab, Lahore.
- Attended 32nd Pakistan Congress of Zoology (International), Government college University, Lahore on 6-8 March, 2012.
- Co-chairman during academic session of 32nd Pakistan congress of Zoology (International), Government College University, Lahore on 6-8 March, 2012.

Dr. Abdul Majid Khan

- 20-22 March, 2012. Attended the three days 'Aquaponics Training Seminar' at Zoology Department, PU, Lahore, under the collaboration of Fishgruen (Switzerland).

● **Research Journals**

- The Department of Zoology has been publishing its own research journal since 1985, the "Punjab University Journal of Zoology" for the promotion of research and its publication in all its branches, both pure and applied. This journal is a continuation of old and irregular publication series by the department the "Bulletin, Department of Zoology" first published in 1931 and ceased its publication in 1983. The title of its first article was "Butterflies of Lahore by D. R. Puri" which is still available in the departmental library. Initially, this journal was published as one issue yearly but from 2005 onwards 2 issues are being published per year. Prof. Dr. S. Shahid Ali and Prof. Dr. Javed Iqbal Qazi are currently working as Editor and Co-Editor of the Journal, respectively. The journal has a wide circulation in and outside the country. The department is getting some very good journals and publications by developing its exchange with other countries.

RESEARCH COLLABORATION

- **Indigenous**

- Indigenous Ph.D. scholarships awarded by HEC to Ph.D. students of HEC approved supervisors during the previous year are currently going on in this department.

- **Foreign Linkages**

- Ph.D. Students of Prof. Dr. Javed Iqbal Qazi 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 bacteria isolated in our Lab. and employ them in the advance labs. of the developed countries to delineate their biotechnological potential.

Following Ph.D. Students visited the described foreign Universities

- Ms. Sumaira Aslam, Arizona State University. Swette centre of Biotechnology. Biodesigning Institute, Arizona, USA. 11.07.2011 to 11.01.2012, Waste water treatment in Hydrogen based biofilm reactor.

Dr. Farah Rauf Shakoori

- Prof. Dr. Janet L. Stein, Department of Biochemistry, University of Vermont, Vermont. USA.
- Prof. Dr. Gary Stein, Chairman, Department of Biochemistry, University of Vermont, Vermont, USA.

Dr. Nadeem Sheikh

- Memorandum of understanding with Department of Internal Medicine, Division of Gastroenterology, Georg August University Goettingen Germany.

INSTITUTE OF AGRICULTURAL SCIENCES

- **Research & Development – An Overview**

- IAGS has made tremendous achievements in the field of Research and Development, while producing virus resistant cotton plants. Right now plants are under field testing, sample analyses of transgenics confirmed the presence of desired construct in the transformants. Agrobacterium inoculation of two heterologous viruses showed resistance from the transgenics. Discovery of several new plant/animal virus species, strains, variants was also in place. Identification of new whitefly biotypes through molecular analyses. Production of genetically recombinant rabies virus vaccine by using local virus isolates and development of quick protocols for the detection and screening of rabies virus. Skilled manpower has also been produced. Approx. 05 MSc (Hons) and 2 PhD students graduated from IAGS during the report period.

- **Projects (i) Completed**

Dr. M. Saleem Haider, Professor & Director

- 2010-11, entitled “Molecular analyses of Potato virus Y infecting potato crop in different regions of Punjab” awarded by the University of the Punjab Lahore

- 2011-12, entitled “Genetic diversity of Entomopathogenic Fungi *Metarhizium* and *Beauveria* spp. isolated from the Soils of different Ecosystems” awarded by the University of the Punjab Lahore.

Dr. Ghazala Nasim, Professor

- 2010-11. Entitled “Development of software for the identification of Macromycetes of Ayubia National Park.” by University of the Punjab Lahore
- 2010-11, “Isolation, purification and characterization of Rhizome born fungi of Ginger, *Zingiber officinale* Rosc”, by the University of the Punjab, Lahore.
- Morpho-anatomical studies of basidiomycetes of district Lahore and establishment of permanent slide archives. Awarded by the Punjab University.

Dr. Tehmina Anjum, Assistant Professor

- In vitro control of *Alternaria citri* using antifungal potentials of *Trichoderma* species. Awarded by Punjab University.

Dr. Arshad Javaid, Assistant Professor

- 2009-12, Natural compounds from allelopathic trees as antifungal agents against *Ascochyta rabiei* (Pass.) Lab. Awarded by Pakistan Science Foundation, Islamabad.
- 2011-12, Biological Control of Charcoal Rot of Mungbean by *Trichoderma* and *Sisymbrium* irio. Awarded by University of the Punjab.
- 2011-12, Lumpsum Research Grant for development of Research Lab. Awarded by University of the Punjab.

Dr. Shakil Ahmed, Assistant Professor

- 2010-2011, entitled “Bioconversion and Biotransformation efficacy of *Pleurotus* species without any supplementation” by the University of the Punjab (Grant Rs.150,000/-)
- 2008-2011, entitled “Development of Myco-technological process for treatment of Pulp & Paper industries effluent” by the Environment Protection Department, Govt. of the Punjab (Grant Rs.7.03 million).

Dr. Amna Shoaib, Assistant Professor

- 2010-2011: Worked as Principal investigator in the project entitled Influence of arsenic on wheat growth and its bioremediation through agricultural waste. Support of Academic Research, Punjab University, Pakistan.

Dr. Uzma Bashir, Assistant Professor

- Fungicidal Activity of Some Allelopathic Medicinal Plants against Root Rot causing Fungi. Funded by academic research, University of the Punjab, Lahore.

Dr. Shazia Shafique, Assistant Professor

- 2011. Bioefficacy of extracts of *Ageratum cornyzoides* to control *Drechslera* species. Awarded by University of the Punjab, Lahore, Pakistan.
- 2011-12, Development of DNA finger prints (genetic signatures) of Khanspur mushrooms. Awarded by University of the Punjab, Lahore, Pakistan.

Dr. Muhammad Ashfaq, Assistant Professor

- Genetic variability analysis of basmati and exotic rice germplasm lines by using various genotypic and phenotypic traits (Rs: 150000) (Funding Source: University of the Punjab, Lahore).

Dr. Sobiya Shafique, Assistant Professor

- 2011. Cymbopogon Citratus as a remedy to control Alternaria species - a cause of leaf spot diseases. Awarded by University of the Punjab, Lahore, Pakistan.
- 2011-12. Evaluation of antifungal compounds of citrus peels. Awarded by University of the Punjab, Lahore, Pakistan.

Ms. Zill-e-Huma, Lecturer

- 2011-12. (Purification and characterization of Invertase by Aspergillus spp. from some Agrowastes) Awarded by (University of the Punjab)

Miss Shabnam Javed, Lecturer

- 2011-12: Phytochemical & pharmacological investigation of Monotheca buxifolia & Sorbaria tomentosa, Awarded by: University of the Punjab

Mr. Muhammad Shafiq, Lecturer

- Principal Investigator of project entitled "Molecular Characterization of Begomoviruse Infecting Solanaceous Crops" University of the Punjab for fiscal year 2011-12)

Mr. Adnan Zahid, Lecturer

- 2012: Effect of the conservative tillage and earthworm on the growth of the mung bean (Vigna radiata) completed during 2012 funded by University of Punjab, Lahore (0.125 million).

Ms. Sana Hanif, Lecturer

- Investigations on Biodiversity of Nematodes Associated with Potato in Major Potato Growing Regions of Punjab and their Biocontrol. Awarded by: (University of the Punjab)

(ii) Newly Launched**Dr. M. Saleem Haider, Professor & Director**

- 2011-14, entitled "Pak-US Cotton Productivity Enhancement Project" awarded by United States Department of Agriculture (USDA) through International Centre for Agricultural Research in the Dry Areas (ICARDA).
- 2009-13: Novel approach to generate wide spectrum virus resistance to all cotton infecting begomoviruses infecting cotton and other cultivated crops. Awarded by PARB.

Dr. Ahmad Ali Shahid, Assistant Professor

- Effect of Genetically Modified crops on soil micro-organism and animals. Awarded by Higher Education Commission of Pakistan

Dr. Arshad Javaid, Assistant Professor

- Title: Biological Control of Charcoal Rot of Mungbean by Trichoderma and Sisymbrium irio. Awarded by Punjab University Lahore. Rs. 150000/-

- Title: Natural compounds from allelopathic trees as antifungal agents against *Ascochyta rabiei* (Pass.) Lab. Awarded by PSF. [Project No. PSF-NSLP-P-PU (53)]. Rs. 2012256/-.

Dr. Tehmina Anjum, Assistant Professor

- Strengthening of Fungal Biotechnology Lab in Institute of Agricultural Sciences, University of the Punjab. Awarded by University of the Punjab.
- Use of extracts from local medicinal trees to control *Alternaria* leaf spot of tomato. Awarded by University of the Punjab.

Dr. Shakil Ahmed, Assistant Professor

- Prevalence, occurrence and distribution of chilli anthracnose disease in major chillies growing areas of Punjab. Awarded by University of the Punjab.

Dr. Shazia Shafique, Assistant Professor

- 2012-13. Defense response of selected *Eucalyptus* species against *Fusarium oxysporum* – cause of wilt in chili. Awarded by University of the Punjab, Lahore, Pakistan.

Dr. Muhammad Ashfaq, Assistant Professor

- Screening of diverse germplasm for drought tolerance in rice (*Oryza sativa* L.) through conventional and molecular breeding techniques (Rs: 500000) (Funding Source: Higher Education Commission (HEC) Islamabad No: PM-IPFP/HRD/HEC/2012/2783, Islamabad September 14th, 2012).

Dr. Amna Shoaib, Assistant Professor

- 2011-2012: Working as Principal investigator in the project entitled Characterization of metallothioneine (MTA) gene expression in *Pisum sativum* L simultaneously growing under wilt and Cu-stressed condition. Support of Academic Research, Punjab University, Pakistan.

Dr. Uzma Bashir, Assistant Professor

- Morphological and Molecular characterization of economically important fungal species. Funded by academic research, University of the Punjab, Lahore, Pakistan.

Dr. Sobiya Shafique, Assistant Professor

- 2012-13. Screening of resistant and susceptible varieties of Chilies against *Fusarium* wilt on the basis of biochemical and molecular analysis. Awarded by University of the Punjab, Lahore, Pakistan.

Dr. Muhammad Bilal Chattha, Assistant Professor

- 2012: Improving the Germinability and Vigor Enhancement of Sunflower (*Helianthus annuus* L.) Hybrid Seed under Varying Temperatures through Seed Priming. Awarded by (Higher Education Commission of Pakistan.)

Dr. Rashid Mahmood, Assistant Professor

- 2012-13: Evaluation of weeds extracts in nitrification inhibition and uptake of synthetic nitrogen for yield enhancement of maize) Awarded by HEC.

Miss Shabnam Javed, Lecturer

- 2008-ongoing “HERBAL HERITAGE GARDEN ”Working as Incharge of mega project of Institute of Agricultural Sciences “Herbal Heritage Garden” since 2008 Awarded by University of the Punjab.

Ms. Sana Hanif, Lecturer

- Screening of Bacterial Bioagents for their Ability to Induce Cold Stress Tolerance in Tomato (*Lycopersicon esculentum* Mill. Awarded by (proposed to University of the Punjab).

Mr. Muhammad Shafiq, Lecturer

- Co-Principal Investigator of project entitled “Haunglongbing in Pakistan” funded by HEC

Mr. Adnan Zahid, Lecturer

- Co-Principal-Investigator, “Improving Germinability and vigor enhancement of sun flower (*Helianthus annuus* L.) Hybrid seed under varying temperatures through seed priming” during 2012 funded by Higher education commission (0.5million).

- **Publications**

Dr. M. Saleem Haider, Professor & Director

- Saeed F., Haider M. S. and Shafiq M. (2012) Biotypes of Whitefly (*Bemisia tabaci*) in Pakistan. LAP Lambert Academic Publishing ISBN 978-3-8484-1231-0, paperback, 56 Pages
- Qurashi F., Haider M. S. and Shafiq M. (2012) Molecular Characterization of Begomoviruses isolated from a Weed. LAP Lambert Academic Publishing ISBN 978-3-8484-9934-2, paperback, 68 Pages
- Javed S, Ahmad R, and Haider MS (2012) Phytochemical Investigation of Citrus limetta Peel Oil. 978-3-8484-9789-8, 89 pages VMD Verlag Dr Muller and the German National Library and Online at www.amazon.com
- Ashfaq, M., Khan A. S. and Haider M. S. (2012) Genetics of rice under normal and water stress conditions. LAP Lambert Academic Publishing ISBN 978-3-8473-2955-8, paperback, 184 Pages

Dr. Ghazala Nasim, Professor

- Ghazala Nasim (2011). Flora of Punjab University, Sir Syed Campus and Ayubia National Park, (Publishers, University of the Punjab at RT, Printers, Royal Park, Lahore, Pakistan) pp329.
- Ghazala Nasim & Mohammad Ali (2011). Getting the Basidio Blue Prints. Lambert Academic Publishing (LAP), Germany. pp 68
- Ghazala Nasim (2012). Biological Control of Root Born Plant Pathogens. Lambert Academic Publishing (LAP), Germany. pp 160

Dr. Salik Nawaz Khan, Assistant Professor

- Zurra Mouzzam and Salik Nawaz khan (2011). Factors associated with post harvest decay of Guava.VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm-publishing-house.com

- Salik Nawaz Khan and Tariq Riaz (2011). Biology and management of corn rot of Gladiolus. VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com
- Salik Nawaz Khan and Abdullah Farhan ul Haq Saeed (2011). Pathological and management constraints associated with shelf life of quality deterioration of tomato. VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com
- Salik Nawaz Khan and Waheed Anwar (2011). Ecological factors linked with pathogenic efficiency Gallaria against Verticillium wilt. VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com
- Arshad Mehmood and Salik Nawaz Khan and Sarwer Alam (2011). Molecular and biochemical characterization of Lasiodiplodia theobromae associated with quick decline of mango, VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com
- Salik Nawaz Khan, Ambreen Sarwer and Tariq Riaz (2011) post harvest bulb storage on field performance of Gladiolus, VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com
- Salik Nawaz Khan and Sadaf Nasrullah (2011) Genetic characterization of maize susceptibility reaction against Cercospora leaf spot. VDM, publishing house, Ltd. Meldrum court 17. Beau basin. Mautitius.www.vdm publishing-house.com

Dr. Tehmina Anjum, Assistant Professor

- Tehmina Anjum. 2011. Sunflower allelochemicals as natural herbicide for weeds in wheat. VDM Publishing house Ltd. ISBN# 978-3-639-36335-7.
- Sundus Tanseer and Tehmina Anjum. 2011. Cultivation medium optimization for Cyclosporin 'A' production. VDM Publishing house Ltd. ISBN# 978-3-639-37781-1.
- Wajiha Irum and Tehmina Anjum. 2011. Production enhancement of Cyclosporin 'A' through mutation. VDM Publishing house Ltd. ISBN# 978-3-639-37043-0.
- Sabeen Fatima and Tehmina Anjum. 2012. Study of molecular polymorphism among different Trichoderma strains. VDM Publishing house Ltd. ISBN# 978-3-659-12556-0.

Dr. Shakil Ahmed, Assistant Professor

- Azeem Haider, Shakil Ahmed and M. Ali. (2011) Treatment of Pulp and paper Industrial Effluent by *P. ostreatus* (L.) Published from VDM Verlag Dr Muller GmbH & Co. KG Dudweiler Lendstr. 99 66123 Saarbrücken, Germany.
- Shakil Ahmed and Muniba Abid (2011) Bioconversion and Biotransformation efficacy of *Pleurotus* species. Published from VDM Verlag Dr Muller GmbH & Co. KG Dudweiler Lendstr. 99 66123 Saarbrücken, Germany.
- M. Adnan Saeed Main and Shakil Ahmed (2011) Production of Protease from *Bacillus* sp. Isolated from Natural habitats. Published from Verlag: LAP Lambert Academic Publishing GmbH & Co. KG ISBN: 978-3-8465-9392-9.

- Azeem Haider and Shakil Ahmed (2011) Glossary of Plant Pathology by Azeem Haider and Shakil Ahmed Published from VDM Verlag Dr Muller GmbH & Co. KG Dudweiler Lendstr. 99 66123 Saarbrucken, Germany.

Dr. Amna Shoaib, Assistant Professor

- Javaid (2011). Bioremediation of Industrial heavy metals. VDM, Verlag, Dr Müller and the German National Library and Online at www.amazon.com.
- Javaid and Badar T. (2011). Biosorption in Single and Multi-metal systems. VDM, Verlag, Dr Müller and the German National Library and Online at www.amazon.com.
- T. Manzoor, Javaid A. and Bajwa R. (2011). Biosorption of Electroplating Heavy Metals by Fungi. VDM, Verlag, Dr Müller and the German National Library and Online at www.amazon.com.
- N. Aslam, Shoaib A. and Akhtar S. (2012). Solution to Cr(III & VI) pollution: Adsorption of Cr through environment friendly biosorbents. VDM, Verlag, Dr Müller and the German National Library and Online at www.amazon.com.

Dr. Uzma Bashir, Assistant Professor

- Sunflower Allelopathy, 2011. ISBN 978-3-639-33727-3 VDM publisher Germany.
- Management and characterization of Fusarium solani 2012. ISBN 978-3-8484-4464-9, LAP LAMBERT Academic Publisher, Germany.

Miss Shabnam Javed, Lecturer

- Phytochemical and Antifungal analysis of E citriodora L. extracts, Sehrish Iftikhar, Shabnam Javed, 2011. ISBN 978-3-8465-4469-3, 56 Pages. www.amazon.com.
- Phytochemical Investigation of Citrus limetta Peel Oil, Shabnam Javed, Dr. Rauf Ahmad, Dr. Saleem Haider, 2012. 978-3-8484-9789-8, 89 pages. www.amazon.com.

Mr. Adnan Zahid, Lecturer

- Zahid, A., Azra, K and Ansar, M., 2011. Sorghum Hydrogen Cyanide" Published by VDM Publisher, Germany.

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

Dr. M. Saleem Haider, Professor & Director

- Haider M.S, Ilyas M, Ahmed T and AbouHaidar M.G (2011) A study of Begomoviruses from Malvaceous hosts and use of RNAi approach for their control. Challenges and Options for Plant Health Management, 8th National Conference of Phytopathology, held November 28-29, University of Agriculture, Faisalabad p-96.
- Khan S. N., Anwar W., and Haider M. S. (2011) Effect of planting environment and input application on natural distribution pattern of entomopathogens. International Science and Technology Conference 2011, held December 7-9, at Istanbul University, Turkey
- Farah S., Haider M. S., Shafiq M. and Ilyas M. (2011) A study based on Molecular analyses of whitefly (Bemisia tabaci) populations from Punjab, Pakistan. Challenges and Options for Plant

- Health Management, 8th National Conference of Phytopathology, held November 28-29, University of Agriculture, Faisalabad p-97.
- M. Zia-Ur-Rehman, M.S. Haider and J. K. Brown (2011) Molecular Characterization of a Novel Monopartite Begomovirus infecting Hollyhock (*Alcea rosea*) in Pakistan. Challenges and Options for Plant Health Management, 8th National Conference of Phytopathology, held November 28-29, University of Agriculture, Faisalabad p-83.
 - M. Zia-Ur-Rehman, M.S. Haider and J. K. Brown (2011) Multiple infection and recombination among begomoviruses infecting Hollyhock (*Alcea rosea*) in Pakistan. Challenges and Options for Plant Health Management, 8th National Conference of Phytopathology, held November 28-29, University of Agriculture, Faisalabad p-97-98.
 - Perveen R. and Haider M.S. (2011) Studies on correlation between CLCuV disease and whitefly population on different local cotton varieties. Challenges and Options for Plant Health Management, 8th National Conference of Phytopathology, held November 28-29, University of Agriculture, Faisalabad p-95.
 - Shabnam Javed, M. Saleem Haider and Sobia Mushtaq, 2011. Phytochemical investigation & in vitro comparative screening of antimicrobial activities of some common weed extracts. In Abstracts 8TH National Conference of Pakistan Phytopathological Society, November 28-29, 2011, University of Agriculture, Faisalabad :107.
 - Muhammad Saleem Haider, Zaheer Hussain, Xiang WU, Zafar Ul Ahsan Qureshi, Andr es Velasco-Villa, Shahida Afzaal and Charles Rupperchet (2012) Development of Genetically Recombinant Rabies Vaccine. 2nd Word Congress of Virology, held August, 20-22, 2012, Embassy Suits, Las Vegas, USA.
 - Muhammad Saleem Haider, Naseer Ahmed and Naeem Rashid (2012) Production of Glucose Syrup by the action of Recombinant α -Amylase purified by efficient method. International Food and Agricultural Congress held February, 15-19, 2012, Antalya, Belek, Turkey
 - Shabnam Javed, Sehrish Iftikhar, Ahmad Ali Shahid, Sabahat Zahra Siddiqui and M. Saleem Haider, 2012. Essential Oils and Latex as Novel Antiviral Agents against Potato Leaf Roll Virus (PLRV). In Abstracts book; 13TH International Symposium on Natural Product Chemistry, September 22-25, H.E.J Research Institute Of Chemistry, International Centre For Chemical And Biological Sciences, University of Karachi, Pakistan:201.
 - Sehrish Iftikhar, Shabnam Javed, Ahmad Ali Shahid, Sobia Mushtaq and M. Saleem Haider, 2012. Monitoring of Antimicrobial Activity of Natural Products Using Molecular Marker. In Abstracts book; 13TH International Symposium on Natural Product Chemistry, September 22-25, H.E.J Research Institute of Chemistry, International Centre For Chemical And Biological Sciences, University of Karachi, Pakistan:199.

- Shabnam Javed, Sehrish Iftikhar, Muhammad Saleem Haider & Shaista Nawaz, 2012. Drying vegetables Bitter Gourd (*Momordica Charantia*), Methi (*Trigonella foenumgraecum*), Potato (*Solanum tuberosum*) and comparison of Preserved vegetables with Fresh ones. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan: 37.
- Shabnam Javed, Sehrish Iftikhar, Muhammad Saleem Haider & Shaista Nawaz, 2012. Garlic (*Allium sativu*), Onion (*Allium cepa*) and Ginger (*Zingiber officinalis*) Powder preparation and their Nutritional and Phytochemical Investigation. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan: 50.
- Shabnam Javed, Sehrish Iftikhar, Muhammad Saleem Haider & Shaista Nawaz, 2012. Microbiological, Nutrition Value, Physico-chemical Evaluation & Macro-micro Elements Estimation of Tomato Ketchup, Plum Chutni, Apple Jam, Almond & Cardamom Syrups. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan: 39.
- Shabnam Javed ,Kanwal Ilyas, Sobia Mushtaq, Muhammad Saleem Haider & Zaid Mahmood,2012. Large Scale Production of High Quality Aloe Vera Juice/Gel and its Commercialization. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan: 39.
- Shabnam Javed, Ahmad Ali Shahid & Muhammad Saleem Haider, Ayesha Umeera, Rauf Ahmad and Sobia Mushtaq, 2012. Nutritional, Phytochemical & Antimicrobial evaluation Of Kitchen Spices *Nigella Sativa* (Kalonji) & *Trachyspermum Ammi* (Ajwain). In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan:50.
- Shabnam Javed¹, Sobia mushtaq¹, Muhammad Saleem Haider, 2012. In vitro fungitoxicity of the essential oil of *Syzygium aromaticum* (Clove) and *Foeniculum vulgare* (Fennel) Essential Oils, In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan:63.
- Shabnam Javed¹, Sobia mushtaq¹, Muhammad Saleem Haider, Rauf Ahmed & Shaista. 2012. Essential Oils Derived From Citrus Fruits in Food Protection and Medicine:GC-MS analysis of Citrus essential oils. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan:64.

Dr. Ghazala Nasim, Professor

- Consultative Meeting on National Sustainable Development Strategy (NSDS) and Action plan (Draft 2010) at Avari Hotel on 18th May 2012, the Mall Lahore, organized by Ministry of National Disaster Management, Government of Pakistan..

Dr. Ahmad Ali Shahid, Assistant Professor

- One day Symposium on Applications of Biotechnology in Health and Agriculture, GC University Faisalabad (March 28, 2012).
- International Conference on Safe Food and Human Health, GC University Faisalabad (January 10-11, 2012).

Dr. Tehmina Anjum, Assistant Professor

- Presented oral paper entitled “A report of new bioactive Annuionone from sunflower leaves” in the First International Conference on Natural Product – Metabolomics a new frontier in natural product science, November 13 –16, 2011. Universiti Putra Malaysia, Putrajaya, Malaysia. Page # 55.
- Presented oral paper entitled “Effect of cultural extracts of *Trichoderma* species on *Alternaria citri*” in the 6th World Congress on Allelopathy – Allelopathy research for sustainable development- from theory to practice, December 15 –19, 2011. South China Agricultural University, Guangzhou, China. Page # 138.
- Seminar given on “My Allelopathy experience in Pakistan” in International Agro-Biological Resources and Allelopathy Lab, Tokyo University of Agriculture and Technology, Fuchu Campus, Tokyo, Japan, on 19th July 2012.
- Poster presentation in XV International Congress of Molecular Plant – Microbe Interactions, Kyoto, Japan, July 30th – August 2nd, 2012.
- Paper published in Abstract book of International Conference on Applied Life Sciences (ICALS 2012) Turkey, September 10 – 12, 2012. Reference: Tehmina Anjum and Nosheen Akhtar. Antifungal Activity of Essential Oils Extracted From Clove, Cumin and Cinnamon Against Blue Mold Disease on Citrus Fruit. Pp 321 – 326.

Dr. Arshad Javaid, Assistant Professor (ORAL PRESENTATIONS)

- Javaid A, Shafique G, Ali S, Shoaib A (2011). Evaluation of herbicidal activity of metabolites of *Trichoderma* spp. for the management of parthenium weed. 3rd International Symposium on Environmental Weeds and Invasive Plants, October 2-7, 2011, Monte Verita, Ascona, Switzerland.
- Javaid A, Munir R (2011). Management of *Ascochyta* blight of chickpea by *Withania somnifera*. In: 8th National Conference of Pakistan Phytopathological Society, November 14-15, 2011, University of Agriculture, Faisalabad.
- Javaid A, Akbar M (2011). Metabolites of *Drechslera* spp. as alternative herbicides for the management of *Rumex dentatus* and *Phalaris minor*. International Science and Technology Conference, December 7 to 9, 2011, Istanbul University, Istanbul, Turkey.

- Javaid A, Rauf S (2011). Management of Fusarium basal rot of onion by extracts and soil incorporation of *Chenopodium album* leaves. 6th World Congress on Allelopathy, December 15 to 19, 2011, Guangzhou, China.
- Javaid A, Riaz T (2012). *Parthenium hysterophorus* L., an alien invasive weed threatening natural vegetations in Punjab, Pakistan. International Symposium on Strategies for Conservation of Endangered Ecosystems, April 16-18, 2012, University of Agriculture, Faisalabad.
- Javaid A, Shafique S, Shafique S (2012). Management of littleseed canarygrass (*Phalaris minor* Retz.) by extracts and residues of *Parthenium hysterophorus* L. International Conference on Climate Change: A Challenge for Agriculturists, May 28-30, 2012, Khyber Pakhtunkhwa Agricultural University, Peshawar.
- Javaid A, Munir R (2012). Environmental friendly strategy for the management of chickpea blight. International Science Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July 11-13, 2012, University of Poonch, Rawalakot, Kashmir.
- Javaid A, Shafique S, Kanwal Q, Shafique S (2012). Management of parthenium weed by exploiting mango allelopathy. 4th International Weed Science Congress, September 6-8, 2012, Khyber Pakhtoon Khwa Agricultural University Peshawar.
- POSTER PRESENTATIONS
- Shoaib A, Javaid A, Akbar M (2011). *Parthenium* management by culture filtrates of *Drechslera* species. 3rd International Symposium on Environmental Weeds and Invasive Plants, October 2-7, 2011, Monte Verita, Ascona, Switzerland.
- Javaid A, Munir R (2012). Bioassay guided fractionation of *Withania somnifera* for the management of chickpea blight pathogen *Ascochyta rabiei*. SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology, June 5-7, 2012, Marriott Hotel, Islamabad.
- Javaid A, Rauf S (2012). Bioassays guided fractionation of *Chenopodium album* L. for evaluation of its antifungal activity to control onion basal rot pathogen *Fusarium oxysporum* f. sp. *cepae*. 12th National & 3rd International Conference of Botany, September 1-3, 2012, Quaid-i-Azam University, Islamabad.

Dr. Shakil Ahmed, Assistant Professor

- The 8th National Conference of Pakistan Phytopathological Society (PPS) November 28-29, 2011, at Department of Plant Pathology, University of Agriculture, Faisalabad organized Pakistan Phytopathological Society (PPS) and sponsored by Pakistan Science Foundation (PSF), Islamabad, USDA, IAR, and HEC, Islamabad.
- One day Training workshop on 29th September, 2012 entitled “ SPSS Software” held in the Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab organized by ORIC office, University of the Punjab, Lahore.

- One day Training workshop on 20th September, 2012 entitled “Platform bridge between Academia and Industry” held in the Al-Razi Hall, Centre for Undergraduate Studies, University of the Punjab organized by ORIC office, University of the Punjab, Lahore.
- ORIC Video conference September 6, 2012, held in the video conference room Centre for Undergraduate Studies, University of the Punjab, Lahore organized by ORIC University of the Punjab, Lahore and HEC Islamabad.
- One day Training workshop on 23rd April, 2012 entitled “HEC Plagiarism Policy and Turnitin Software” held in the Committee Room, Centre for Undergraduate Studies, University of the Punjab organized by QEC & ORIC University of the Punjab, Lahore.
- One day Training workshop on 17th March, 2012 entitled “Qualitative Research using NVivo 9 Software” held in the Committee Room, Centre for Undergraduate Studies, University of the Punjab, Lahore organized by ORIC University of the Punjab, Lahore.

Dr. Amna Shoaib, Assistant Professor

- Shoaib, Javaid A. and Akbar M. (2011). Parthenium management by culture filtrates of *Drechslera* species. In: Bohren, C.; Bertossa, M.; Schönenberger, N.; Rossinelli, M.; Conedera, M. (ed) 3rd International Symposium of Environmental Weeds and Invasive Plants. October 2 to 7, 2011. Monte Verità, Ascona, SWITZERLAND. Available from Internet <http://www.wsl.ch/epub/ewrs>.
- Javaid, Shaffique G. Ali S. and Shoaib A. (2011). Evaluation of herbicidal activity of metabolites of *Trichoderma* spp. for the management of parthenium weed. In: Bohren, C.; Bertossa, M.; Schönenberger, N.; Rossinelli, M.; Conedera, M. (ed) 3rd International Symposium of Environmental Weeds and Invasive Plants. October 2 to 7, 2011. Monte Verità, Ascona, SWITZERLAND. Available from Internet <http://www.wsl.ch/epub/ewrs>.
- Shoaib (2011). Removal of Cr(III) from tannery wastewater through fungi. International Science and Technology Conference. December 6-8, 2011. Istanbul, TURKEY. ISSN: 2146-7382. Available from internet <http://www.iste-c.net/publications/istec2011.pdf>
- Shoaib, Aslam N. and Aslam N. (2011). Myco and phyto remediation of heavy metals from aqueous solution. International Science and Technology Conference. December 6-8, 2011. Istanbul, TURKEY. ISSN: 2146-7382. Available from internet <http://www.iste-c.net/publications/istec2011.pdf>
- Akhtar, Shoaib A. and Nafisa (2012). Agricultural waste as a potential scavenger of As(V). International Conference on Water, Energy, Environment and Food Nexus: Solution and Adaptation Under Challenging Environment. April 4-5, 2012. Centre of Excellence in Water Resources Engineering. University of Engineering and Technology. Lahore. PAKISTAN
- Nafisa, Shoaib A. and Akhtar S. (2012). Molecular Morphological alternations in *Psidium sativum* grown under metal contaminated water. International Conference on Water, Energy, Environment and Food Nexus: Solution and Adaptation under Challenging Environment. April 4-5, 2012.

Centre of Excellence in Water Resources Engineering. University of Engineering and Technology. Lahore. PAKISTAN

- S. Akhtar and Shoaib A. (2012). Growing threat of Sinkhea on major cereal crops of Pakistan. International Conference on Water, Energy, Environment and Food Nexus: Solution and Adaptation Under Challenging Environment. April 4-5, 2012. Centre of Excellence in Water Resources Engineering. University of Engineering and Technology. Lahore. PAKISTAN

Dr. Uzma Bashir, Assistant Professor

- Uzma Bashir and Sidra Javed 2011. Antifungal activity of allelopathic plant extracts for the management of *F.solani*. 8th National conference on Pakistan phytopathological society, Department of plant pathology, University of Agriculture, Faisalabad.(28-29 November 2011)
- Mukhtar Hussain Shah, Rukhsana Bajwa Uzma Bashir and, Salik Nawaz Khan 2011. Allelopathy of Rice: Effect of rice mulching on the growth of *Avena sativa*. 2nd International conference of plant scientists MBB 5 pp 107.
- Uzma Bashir and Justina Jane Tahira 2011. Exploitation of antifungal potential of *Eucalyptus camaldulensis* for the management of *Fusarium solani*. 8th National conference on Pakistan phytopathological society, Department of plant pathology, University of Agriculture, Faisalabad.(28-29 November 2011)
- Sidra Javed and Uzma Bashir. 2011. Evaluation of Antifungal activity of methanolic extract of *Ageratum conyzoides*. 8th National conference on Pakistan phytopathological society, Department of plant pathology, University of Agriculture, Faisalabad.(28-29 November 2011)

Dr. Shazia Shafique, Assistant Professor

- International Conference on Natural Products ICNP, November, 13-16, 2011, Putrajaya, Malaysia.
- SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology, June, 5-7, 2012, Islamabad, Pakistan.
- One Day Seminar on World Environment Day: Forests and Environment together, June, 5, 2012. University of the Punjab, Lahore Pakistan.
- National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July, 11-13, 2012, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
- International Conference on Applied Life Sciences, September, 10-13, 2012, Konya, Turkey.

Dr. Rashid Mahmood, Assistant Professor

- One week 1st National Training Course on “Bacterial Identification and Metagenomics” held at “National Institute of Biotechnology and Genetic Engineering, Faisalabad, Pakistan” from March 5-9, 2012, NIBGE- Faisalabad, Pakistan.
- One week training course on “Office Management” held at “Punjab Institute of Management and Professional Development, Lahore, Pakistan” from January 2-6, 2012.

Dr. Shinawar Waseem Ali, Assistant Professor

- Ali, W.S., Akhter, S., Haider, M.S. and Mushtaq, M.H., 2012. Pesticide residue in agricultural environment: A potential threat to food safety in Pakistan. "International Science Conference on Agriculture and Food Security Issues in Global Environmental Perspectives", 11-13 July 2012, Faculty of Agriculture, University of Poonch, Rawalakot, Azad Jammu and Kashmir, Pakistan.
- Ali, S.W., Haider, M.S., Riaz, M. and Mushtaq, M.H., 2012. Microbial Detoxification of Mycotoxins in Agricultural Produce. "The First International Biology Congress in Kyrgyzstan", 24-26 September 2012, Kyrgyzstan Turkey Manas University, Bishkek, Kyrgyzstan.
- Participated in "2nd Invention to Innovation Summit", 18 June 2012, University of the Punjab, Lahore, Pakistan.
- Attended a four days "Faculty Orientation Training Program 2012", (July 3-6, 2012) held at Institute of Administrative Sciences, University of the Punjab, Lahore, Pakistan

Dr. Muhammad Bilal Chattha, Assistant Professor

- Attended 5-Days Training workshop on Planning and Management of Rural Development Projects at AHK National Center for Rural Development, Islamabad, during August, 2012.

Dr. Sobiya Shafique, Assistant Professor

- International Conference on Natural Products ICNP, November, 13-16, 2011, Putrajaya, Malaysia.
- SAARC Regional Conference on New Frontiers in Agricultural Genomics and Biotechnology, June, 5-7, 2012, Islamabad, Pakistan.
- One Day Seminar on World Environment Day: Forests and Environment together, June, 5, 2012. University of the Punjab, Lahore Pakistan.
- National Conference on Agriculture and Food Security Issues in Global Environmental Perspectives, July, 11-13, 2012, The University of Poonch Rawalakot, Azad Jammu and Kashmir.
- International Conference on Applied Life Sciences, September, 10-13, 2012, Konya, Turkey.

Dr. Asad Shabbir, Assistant Professor

- Won graduate student award by International Weed Science Society (IWSS) to attend and present paper at International Weed Science Congress held from June, 17-22, 2012 in Hangzhou, China.
- Won School of Agriculture and Food Sciences travel award to present and attend 2012 Adaptation Future conference on Climate Change held at University of Arizona, Tucson

Ms. Zill-e-Huma, Lecturer

- 23rd International ICFMH Symposium, Food-Micro 2012 "Global Issues in Food Microbiology" 3rd -7th September, 2012, ISTANBUL-TURKEY. Poster presentation. Funded by University of the Punjab.

- Biovision Alexandria NXT, 2012 (TWAS/BVA. NXT 2012) at the Center for Special Studies and Programs at the Bibliotheca Alexandria 21-22 April 2012. Alexandria, Egypt. Poster Presentation. Funding by TWAS.

Miss Shabnam Javed, Lecturer

- Presented paper in 13TH International Symposium on Natural Product Chemistry, September 22-25, 2012. H.E.J Research Institute of Chemistry, International Centre For Chemical and Biological Sciences, University of Karachi, Pakistan.
- Presented paper in International Conference on Safe Food and Human Health, January 10-11, 2012. GC University, Faisalabad, Pakistan.
- Presented paper in 10th International and 22nd National Chemistry Conference November 21-23, 2011, Chemistry for Food and Energy, Department of chemistry and biochemistry, University of Agriculture, Faisalabad.
- Presented paper in 8TH National Conference of Pakistan Phytopathological Society, November 28-29, 2011, University of Agriculture, Faisalabad
- Displayed stall in Seminar on “Developing Local Food Additives/Preservatives” 5th Nov 2012, organized by IRP in collaboration with University of the Punjab (ORIC & Institute of Agricultural Sciences) and Pakistan Society of Food Scientists & Technologists (PSFST)-Lahore. Al-Razi Hall, Undergraduate Block, PU.

Mr. Muhammad Shafiq, Lecturer

- Shafiq, M., Ahmad, I., Haider, M.S. and Asad, S., 2012. The role of Cauliflower mosaic virus (CaMV) defence and silencing suppressor protein 6 (p6) in modulating auxin signaling oral presented at 10th Australasian Plant Virology Workshop (10th APVW) 19-22 November 2012 Hanmer Springs, New Zealand organized by The New Zealand Institute for Plant & Food Research Ltd.

Mr. Adnan Zahid, Lecturer

- Zahid.A., A.Khanum, M.Ansar, A.A.Shahid and K.A.Khan.” Influences of cultivars and growth stages on morphological and chemical changes in sorghum (*Sorghum bicolor* L. Moench) under dry conditions in Pakistan. 3rd International conference on agriculture and animals sciences Bangkok, Thailand 24-25 November 2012
- Mujeeb Ur Rehman ., Ahmad Ali Shahid, Malik M. Akram, Adnan Zahid, Naveed Aslam Awan, M. Ikram and M. Saqib.”Real Time Nitrogen fertilizer management with the Leaf Color Chart technology in rice (*Oryza sativa*) in Punjab province Pakistan 3rd International conference on agriculture and animals sciences Bangkok, Thailand 24-25 November 2012.
- Influences of cultivars and growth stages on morphological and chemical changes in sorghum (*Sorghum bicolor* L. Moench) under dry conditions in Pakistan. 3rd International conference on

agriculture and animals sciences Bangkok, Thailand 24-25 November 2012 sponsored by University of the Punjab, Lahore

- One week training on handling of Arch GIS-Software at Suparco Head quarter, Karachi
- One week training on SPSS at NCRD, Chak Shahzad, Islamabad
- One day workshop on Quantitative analysis in SPSS, University of the Punjab, Lahore

Ms. Sana Hanif, Lecturer

- Oral Paper presentation in International Conference on Emerging Issues in Food Safety ,14-16,November, 2011,organized by National Institute of Food Sciences & Technology,University of Agriculture, Faisalabad-38040,Pakistan. Title: Evaluation of Half Life and Withholding Period of Two Frequently Used Fungicides Viz., Thiophanate Methyl and Carbendazim On Tomato Fruit In Punjab, Pakistan.
- Oral Paper presentation in 1st International Conference on Safe Food and Human Health, 10-11 Jan, 2012, organized by: Department Of Food Science, Government College University, and Faisalabad, Pakistan. Title: Residual Analysis of Different Fungicides In/On Tomato Fruit.

Dr. Nasir Ahmad, Lecturer

- Ahmed, N., Rashid, N. and Haider, M.S. (2012). Locally Produced Recombinant Enzymes for Food Processing: as Good as Native Ones. National Seminar on Developing Local Food Additives/Preservatives, November 22, 2012 University of the Punjab , Lahore.

Dr. Zaheer Hussain, Lecturer

- Workshop Research Ethics, Endnote and Turnitin 25-26 September, 2012 Department of Library Science and Information Technology, Punjab University, Lahore.
- 2ND Real Time PCR Workshop 4th – 7th September, 2012 University Institute of Biochemistry and Biotechnology, PMAS Arid Agriculture University Rawalpindi
- Muhammad Saleem Haider, Zaheer Hussain, Zafar Ul Ehasan Qureshi, Xiang WU , and Charles Rupperchet (2012) Development of genetically recombinant rabies vaccine (Oral Presentation) 2nd World Congress on Virology August 20-22, 2012 Embassy Suites Las Vegas, USA
- Endnote Training Workshop held at University of Health Sciences, Lahore on 24th December, 2011. (Training Workshop)
- An international symposium “Tuberculosis - Epidemiology, Diagnostics and Therapeutics” at Institute of Biochemistry and Biotechnology, Punjab University Lahore held on November 03, 2011. (Attended)

● **Publications**

Dr. M. Saleem Haider, Professor & Director

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Dr. Rashid Mahmood, Assistant Professor

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Dr. Shinawar Waseem Ali, Assistant Professor

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Dr. Sobiya Shafique, Assistant Professor

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Dr. Asad Shabbir, Assistant Professor

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Miss Shabnam Javed, Lecturer

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Ms. Sana Hanif, Lecturer

- Ali, A., Hanif, S., Bajwa, R. and Jabeen, R., 2011. Assessing enzyme activity of *Trichoderma* species. *Int. J. Biol. Biotech.*, 8(3): 377-381.(HEC recognized)

Mr. Adnan Zahid, Lecturer

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Dr. Zaheer Hussain, Lecturer

- Hussain, Z., Haider, M.S., Qureshi, Z.A., Adrees Velasco-Villa, Afzaal, S. and Wu, X., 2012. Efficacy Test in Mice of Two Novel Rabies Vaccine Candidates Using a Pakistan Rabies Virus Glycoprotein Gene. *J. Antivir. Antiretrovir.*, S15: (Impact Factor 3.263).
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Mr. Moazzam Anees, Lecturer

- Anees, M., Tahir, F.M., Shahzad, J. and Mahmood, N., 2011. Effect of foliar application of micronutrients on the quality of mango (*Mangifera indica* L.) cv. Dusehri fruit. *Mycopath*, 9(1): 25-28.
- Mahmood, N., Anees, M., Ahmad, S. and Zakaullah, 2011. Effect of mulching on vegetable production in tunnel farming. *Mycopath*, 9(1): 21-24.

RESEARCH COLLABORATION**• Indigenous**

- Central Cotton Research Institute, Multan
- Ayub Agricultural Research Institute, Faisalabad
- Environment Protection Department (EPD), Lahore
- HEC Ph.D. Scholar Aqeel Ahmad under HEC Indigenous scholarship programme, Research entitled "Inducible defense responses in tomato triggered by *Penicillium oxalicum* against *Alternaria alternata* leaf spots of tomato" is working under the supervision of Dr. Shazia Shafique.

• Foreign Linkages

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

• Funding Grants for R&D

- M. Saleem Haider. An amount of Rs.30,80,679/- has been granted for a research project entitled "Pak-US Cotton Productivity Enhancement Project" by USDA through International Centre for Agricultural Research in the Dry Areas (ICARDA).
- M. Saleem Haider. PARB funded research project for CLCuV resistance, Worth Rs 28 million (2009-2013)

- Tehmina Anjum. Strengthening of Fungal Biotechnology Lab in Institute of Agricultural Sciences, University of the Punjab. (2011 - 2012). Grant = 0.772 Million Rs by PU.
- Tehmina Anjum. Principal investigator in one year (2011-2012) project entitled “Use of extracts from local medicinal trees to control Alternaria leaf spot of tomato”. Grant = 1,50,000/Rs by PU.
- Dr. Arshad Javaid (2011-12), entitled “Biological Control of Charcoal Rot of Mungbean by Trichoderma and Sisymbrium Irio” by University of the Punjab Lahore. (Grant Rs.150,000/-)
- Dr. Arshad Javaid, (2011-12), “Lumsum Research Grant” by University of the Punjab Lahore (Grant Rs.769,000/-)
- Dr. Shakil Ahmed, entitled “Biological Treatment of pulp and paper industrial effluent by white rot fungi” funded by the University of the Punjab. (Grant Rs.150,000/-)
- Shazia Shafique. Principal Investigator in one year (2011) project entitled “Cymbopogon Citratus as a remedy to control Alternaria species - a cause of leaf spot diseases” Grant Rs.150, 000/-)
- Dr. Sobiya Shafique. Principal Investigator in one year (2011) project entitled “Bioefficacy of extracts of Ageratum cornyzoides to control Drechslera species” awarded by the University of the Punjab, Lahore, Pakistan, 2011. Grant Rs.150,000/-)

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

• Research & Development – An Overview

- The faculty of IBB actively pursuing research projects of national interests inter alia immunodiagnosis of viral and bacterial infections; purification and applications of industrially important enzymes; characterization of antifungal proteins of plant origin, identification of biomarkers for early diagnosis of cancer, production of monoclonal antibodies, peptide hormones, interferon's and cytokines, screening of genetic disorders in local population and nanotechnology-based detection of allergens in local environment. During the year 2011-12, the Institute had several publications to its credit. In particular, many research papers were published in international impact factor journals and the research findings were presented at the national and international forum. A highly competitive research grant of US\$ 12,000 was also awarded to one of the faculty member. The faculty members also received research grants, to strengthen the research activities of the Institute.

• Projects (i) Completed

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Mahjabeen Saleem University of the Punjab	Potential of bacterial strains for bioremediation of pulp and paper industry effluents	Rs. 0.15 Million	○ To check the ability of biological treatment process for decolourization of industrial effluents
Dr. Amtul Jamil Sami University of the Punjab	human eye lens of Local population.	Rs. 0.15 Million	

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Amtul Jamil Sami University of the Punjab	Molecular Basis of Action of Neem (Azadirachta Indica) drived compounds as Bio-pesticides.	Rs. 2.262 Million	
Dr. Saba Irshad University of the Punjab	Characterization of BCR-ABL in CML patients of Pakistan	Rs. 0.15 Million	<ul style="list-style-type: none"> ○ To characterize all possible BCR-ABL Fusion Transcripts by using RT PCR ○ To check frequency of those fusion transcript in CML patients of Pakistan ○ To check the presence of a typical fusion transcripts other than b2a2, b3a2, in CML patients of Pakistan
Dr. Zahoor Qadir Samra University of the Punjab	Surface Layer Proteins as Nano carrier for Therapy and Diagnosis Duration: 1 Year	Rs. 0.125 Million	<ul style="list-style-type: none"> ○ Isolation and characterization of S-layer protein from bacteria ○ Identification by gold-conjugated antibody and microscopy ○ Conjugation of anti-cancer drug with S-layer protein.
Ms. Mamoona Naz University of the Punjab	Identification of a high risk haplotype for the dystrobrevin binding protei-1 (DTNBP-1) gene and interleukin- 12B in schizophrenia as genetic markers Duration: 1 Year	Rs. 0.125 Million	<ul style="list-style-type: none"> ○ Role of diagnostic strategy in treatment of schizophrenia
Ms. Iram Gull University of the Punjab	Determination of uric acid levels by uric acid test strips Duration: 1 Year	Rs 0.125 Million	<ul style="list-style-type: none"> ○ To develop easy to use enzyme based colorimetric test strips for the qualitative and semi-quantitative determination of uric acid in human whole blood, serum and urine samples. ○ Development of low cost disposable paper based uric acid test strips.
Mr. M. Shahbaz Aslam University of the Punjab	Fungal laccases for paper pulp bleaching Duration: 1 Year	Rs. 0.125 Million	<ul style="list-style-type: none"> ○ Replacing conventional and polluting chlorine based delignification procedures by enzyme based methods. ○ Providing milder and cleaner strategy for pre-treatments of wood pulp with lignolytic enzymes.

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Ms. Afshan Iqbal University of The Punjab	Isolation, Characterization and immobilization of extracellular alpha amylase from mutant Bacillus Subtilis Duration: 1 Year	Rs. 0.125 Million	<ul style="list-style-type: none"> Development of mutant Bacillus subtilis Enzyme estimation Purification and characterization of the enzyme Enzyme Immobilization Immobilized enzyme assay
Ms. Beenish Kashif Hashmi University of the Punjab, Lahore.	Studies on antioxidant enzyme activities at different ripening stages of fruits and vegetables. Duration: 1 Year	Rs. 0.125 Million	<ul style="list-style-type: none"> Sampling of plant material (available fruits and vegetables) Preparation of enzyme extract Estimation of total protein content Estimation of antioxidant enzyme activity Isolation and purification of the highest activity antioxidant enzyme Characterization of the purified antioxidant enzyme

(ii) Newly Launched

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Mahjabeen Saleem University of the Punjab	Influence of Apolipoprotein E4 (ApoE) and Leptin Gene Variations on Hypertension.	Rs.0.150 Million	
Dr. Amtul Jamil Sami HEC	Molecular Basis of Action of Neem (Azadirachta Indica) derived compounds as Bio-pesticides.	Rs. 2.262 Million	
Dr. Amtul Jamil Sami University of the Punjab	Biochemical basis of inhibition of digestive amylase of coleopteran insects and human by Azadirachta indica.	Rs.0.150 Million	
Dr. Saima Sadaf PAS	Production of recombinant cytokine of therapeutic importance	Rs.1.98 Million	<ul style="list-style-type: none"> Production of granulocyte colony stimulating factor for neutropenia treatment
Dr. Saima Sadaf University of the Punjab	Implementing MicroRNAs in the Diagnosis of Acute Myocardial Infarction	Rs.0.150 Million	

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Saba Irshad University of the Punjab	Mutational Analysis of DNMT3A Gene in Pakistani Patients with Acute Myeloid Leukemia (AML)	Rs.0.150 Million	
Dr. Moazzam Ali University of the Punjab	Investigation of endocytic role of human small GTPase Rab28	Rs.0.150 Million	
Ms. Mamoon Naz University of the Punjab	Genetic susceptibility and identification of potential role of Vitamin D biomarkers for diagnosis and prognosis of Arthritis in Pakistani Population	Rs.0.125 Million	
Mr. M. Shahbaz Aslam	Recombinant production of consensus envelop domain III protein of Dengue Virus; A Candidate Tetravalent Dengue Vaccine.	Rs.0.125 Million	
Ms. Irma Gull University of the Punjab	Heterologous expression of phytase in plants.	Rs.0.125 Million	
Mrs. Afshan Iqbal University of the Punjab	Genetic studies of genes involved in bioremediation in microbes	Rs.0.125 Million	
Mrs. Beenish Kashif Hashmi University of the Punjab	Isolation and production of antineoplastic enzyme producing microbes from soil samples	Rs.0.125 Million	
Ms. Ferhana Hussain University of the Punjab	Optimization and Molecular characterization of Bacterial Isolates from oil contaminated soil samples.	Rs.0.125 Million	

• **Publications**

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Prof. Dr. M. Amin Athar	Predictors of response to antiviral therapy in patients with chronic hepatitis C from Pakistani population.	Chinese Medical Journal	124(9) 1333-1337 1333-1337	0.95

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Prof. Dr. M. Amin Athar	Evaluation of prognostic factors for Peg Interferon alfa-2b plus ribavirin treatment on HCV infected patients in Pakistan.	Infect Genet Evol.	3 640-645	3.086
Prof. Dr. M. Amin Athar Dr. Zahoor Qadir Samra	PCR Assay Targeting virulence genes of Helicobacter pylori isolated from drinking water and clinical samples in Lahore metropolitan Pakistan.	J. Water and Health	9 (1) 208-216	1.625
Prof. Dr. M. Amin Athar Dr. Zahoor Qadir Samra	Determination of oxygen derived free radicals producer (Xanthine oxidase) and scavenger (Paraoxonase 1) Enzymes and lipid parameters in different cancer patients.	Clin Lab	57 741-747	0.821
Prof. Dr. M. Amin Athar Dr. Zahoor Qadir Samra	Computational Comparison of β -Mannosidases of Animals, Human, Microbes and Plants.	Turkish journal of Veterinary and Animal Sciences	35(6): 395-404	0.34
Mahjabeen Saleem, Farheen Aslam, Muhammad S Akhtar, Mohsin - Tariq and Muhammad I Rajoka.	Characterization of a thermostable and alkaline xylanase from Bacillus sp. and its bleaching impact on wheat straw pulp.	World Journal of Microbiology and Biotechnology.	2012; 28:513–522.	1.532
Ikram Z, Saeed U, Humayun R, Khurshid R, Mahjabeen Saleem.	Identification of prognostic bio-marker proteins against transient renal dysfunction.	Arch. des. Sci,	2012; 65(9): 622-630.	0.474
Mahjabeen Saleem , Atiqa Rehman Riffat Yasmin and Bushra Munir.	Biochemical analysis and investigation on the prospective applications of alkaline protease from a Bacillus cereus strain.	Molecular Biology Reports.	39:6399–6408.	2.93
Mahjabeen Saleem, Mamoon Naz, Asma Waris, Bushra Muneer and Rukhshan Khurshid.	Screening of Pneumococcal Pneumonia by Amplification of Pneumolysin Gene In Children Visiting Hospitals in Lahore, Pakistan	Iranian Journal of Pediatrics,	2012; 22.	0.148
Khuram Shehzad, Maria Rasool, Mahjabeen Saleem, Mamoon Naz.	Polymorphism in ghrelin and heparan sulfate proteoglycan genes and their association with diabetic nephropathy in Pakistani population.	Journal of Chinese Pharmaceutical Sciences	2012; 21 (3): 264-270.	0.587
Ikram Z, Mahjabeen Saleem, Rukhshan Khurshid.	Creatinine clearance: an early detection of chronic renal failure in suspected patients.	Arch. des. Sci, 2012; 65 (10):	490-496.	0.474

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Asma Rashid , Rukhshan Khurshid, Asif Hanif, Mahjabeen Saleem, Latif Aftab	Effect of calcium and soy is flavone supplementation on bone mineral density of women with different menstrual status.	Journal of Chinese Pharmaceutical Sciences,	DOI:10.52 46/jcps.20 12.04.048	0.587
Dr. Mahjabeen Saleem	Biochemical analysis and investigation on the prospective applications of alkaline protease from a <i>Bacillus cereus</i> strain.	Molecular Biology Reports.	DOI 10.1007/s 11033- 011-1033- 6	1.875
Dr. Mahjabeen Saleem Ms. Mamoona Naz	Potential role of Neuregulin 1 and TNF-alpha (-308) polymorphism in schizophrenia patients visiting hospitals in Lahore,	Molecular Biology Reports. Mol. Biol	38 4709- 4714	1.875
Dr. Mahjabeen Saleem	Characterization with sites of post-translational modification and specific sites of interaction with substrates and inhibitors.	Molecular Biology Reports	38,2953.	1.875
Dr. Amtul Jamil Sami	A simple method for the isolation and cloning of genomic DNA from dried bone tissues of Indus river dolphin <i>Platanista</i> minor	Annals of Biological Research	3	
Dr. Amtul Jamil Sami (Co-authors) AR Shakoori	Potential of Azadirachtin and neem (<i>Azadirachta indica</i>) based saponins of invitro insect pest cellulose inhibition and invivo repellency on <i>Tribolium</i> <i>castenum</i>	Journal of medicinal Plant research		0.68
Dr. Amtul Jamil Sami	Digestive Cellulose hydrolyzing activity (endo- β -1, 4- D- glucanase) in the gut and salivary glands of Blister beetles <i>Mylabris pustulata</i>	Pakistan Journal of Zoology	43 393-401.	0.20
Dr. Amtul Jamil Sami	Inhibition of cellulase activity and growth retardation of associated bacterial strains from <i>Aulacophora foveicollis</i> ; a green insect pest by two glycosylated flavonoids, isolated from <i>Mangifera indica</i> leaves" (2011)	Journal of Medicinal Plant Research	18 184-190	0.565
Dr. Amtul Jamil Sami	Gene study within the 5' flanking regions of growth hormone gene of first exon in <i>Bos indicus</i>	African Journal of Biotechnology	10 332-336	0.533

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Dr. Saima Sadaf	Developing an improved competitive enzyme immunoassay for beetal caprine growth hormone	Pak. J. Biochem. Mol. Biol.	44 (4)	
Dr. Saima Sadaf, (Co-authors) Shaista Bashir, M.Waheed Akhtar	Enhanced production and refolding of human leptin expressed in Escherichia coli	(PJBMB)	45(i)	
Dr. Zahoor Qadir Samra, (Co-authors) Nadia Dar, M. Amin Athar	Biocatalytic activity of recombinant human β Mannosidase immobilized onto magnetic nanoparticles for bioprocess.	Preparative Biochem. Biotech.	49, 97-112	0.466
Dr. Saba Irshad	Antimalarial activity of three Pakistani Medicinal Plants.	Pakistan Journal of Pharmaceutical Sciences	24(4) 589-591.	0.825
Dr. Saba Irshad	In-Vitro Antibacterial Activity of Two Medicinal Plants Neem (Azadirachta indica) and Peppermint.	International Research Journal of Pharmaceuticals	1 1-6	
Dr. Saba Irshad	Exclusion Mapping of Primary Microcephaly in Pakistani Kindred	Pak. J. Biochem. Mol. Biol.	44(3) 95-98.	
Dr. Saba Irshad	Linkage Study of Primary Microcephaly in Pakistani Kindred.	Research journal of Biology,	1(1) 1-6	
Dr. Saba Irshad	In-Vitro antibacterial activity of Aloe barbadensis Miller (AloeVera)	International Research Journal of Pharmaceuticals	1(2) 60-65	
Dr. Saba Irshad	A Review on DNA VACCINES	Journal of Health Sciences	1(1) 1-7	
Dr. Saba Irshad, (Co-authors) Samiah Ahmad	A Review on Microcephaly genes	Biopolymers and Cell	28(3)	0.205
Dr. Saba Irshad, (Co-authors) Maryam Mahmood, Farzana Perveen	In vitro antibacterial activity of three medicinal plants using agar well diffusion method.	Research Journal of Biology	2(01)	
Dr. Saba Irshad, (Co-authors) Blessy Shahzad, Sana Khan	A Review on Autosomal recessive non-syndromic hearing impairment genes	Basic Science of Medicine	1(3)	
Dr. Saba Irshad, (Co-authors) Rabiya Nawab	Molecular Characterization of Seven Different Species of Aspergillus Through Random Amplified Polymorphic DNA (RAPD) and Enzyme Analyses	Journal of Microbiology Research	02(03)	

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Dr. Saba Irshad, (Co-authors) Tooba Altaf	PCR based detection of parental origin of extra chromosome 21 in children with Down syndrome in Pakistan	Basic Sciences of Medicine	1(1)	
Dr. Saba Irshad, (Co-authors) Rabiya Nawab	A Molecular Genetic Study of Autosomal Recessive Primary Microcephaly in three Pakistani Kindred	Basic Sciences of Medicine	1(3)	
Ms. Mamoon Naz (Co-authors) Mahjabeen Saleem, Asif Hanif, Khurram Shehzad, Maria Rasool	Polymorphisms in ghrelin and heparin sulfate proteoglycan genes and their association with diabetic nephropathy in Pakistani population	Journal of Chinese Pharmaceutical Sciences	21	0.587
Iram Gull, (Co-authors) M. Shahbaz Aslam Zahoor Qadir Samra, M. Amin Athar	Inhibitory effect of Allium sativum and Zingiber officinale extracts on clinically important drug resistant pathogenic bacteria.	Annals of clinical Microbiology and Antimicrobials	11	1.7 (unofficial)
Iram Gull, (Co-authors) Aamir Ali, Abdul Majid, Asif Saleem, Namia Huma Naveed and Shagufta Naz	In vitro conservation and production of vigorous and desiccation tolerant synthetic seeds in Stevia rebaudiana.	Journal of medicinal plant research	6	0.879
M. Shahbaz Aslam (Co-authors) Mohsina Akhter, Raheema Rasheed, Zahoor Qadir Samra, Iram Gull, Muhammad Amin Athar	Identification and Purification of Antigenic 34 kDa Outer Membrane Protein of Salmonella Typhi	Clin. Lab.	Manuscript # 111211, Accepted	1.01
M. Shahbaz Aslam (Co-authors) Aisha Aishy, Zahoor Qadir Samra, Iram Gull, M. Amin Athar	Identification, Purification and Characterization of Novel Extracellular Laccase from Cladosporium cladosporioides	Journal of Biotechnology & Biotechnological Equipment	Accepted	0.76

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

- Dr. Saima Sadaf delivered lecture on “Production of Biologically Active Recombinant Proteins in E. coli” at the NAYS-organized workshop held at the University of Lahore, Lahore (September 14-16, 2012)

- Dr. Saima Sadaf delivered lecture on “Expression of bubaline somatotropin in methylotropic yeast *Pichia pastoris*” at the National Science Conference held at PMAS-ARID Agriculture University, Rawalpindi (January 10-12, 2012)
- Dr. Saba Irshad participation in a Workshop on “Research Ethics, Endnote and Turnitin” at Department of Library and Information Sciences, University of the Punjab, Lahore, on 25th-26th September, 2012.
- Dr. Saba Irshad participation in a one day Workshop on “Quantitative Data Analysis using SPSS” at ORIC, Department of Undergraduate Studies, University of the Punjab, Lahore, on 29th September, 2012.
- Dr. Saba Irshad participation in a symposium on Tuberculosis – Epidemiology, Diagnostics and Therapeutics, November 3, 2011, at IBB, PU, Lahore.
- Dr. Saba Irshad paper presentation on “Frequency of Bcr-abl Fusion Transcript of CML patients in Pakistan” in 10th Shaukat Khanum Memorial Cancer Symposium, Lahore, 18-20th November, 2011.
- Dr. Saba Irshad paper presentation in 32nd Pakistan congress of Zoology (International), GC University, Lahore, March 6-8, 2012.
- Ms. Iram Gull participation in a one day Workshop on “Immunofluorescent Techniques” at MMG, Department, University of the Punjab, Lahore, on 20th October, 2011.

RESEARCH COLLABORATION

- **Indigenous**

- A collaborative research project of Dr. Saima Sadf and Prof. M. Waheed Akhtar School of Biological Sciences “Production of recombinant cytokine of therapeutic importance.” funded by Pakistan Academy of Sciences Rs. 1.982 Million (2010-2013)
- A collaborative research project of Dr. Saima Sadf and Prof. M. Waheed Akhtar School of Biological Sciences “Free circulating molecular markers for cancer diagnosis and prognosis” funded by Higher Education Commission, Government of Pakistan Rs. 4.197 Million (2010-13)

SCHOOL OF BIOLOGICAL SCIENCES

- **Research & Development – An Overview**

- The School of Biological Sciences, now in the 11th 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**

- (i) **Completed**

Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial Support	Main Goals
1.	Prof. Dr. Javed Iqbal/ Pak-US Collaborations	Enhance the sugarcane production in Pakistan by Modern Breeding Technology	US\$.71610.00	Completed

- (ii) **Newly Launched (in progress)**

Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial Support	Main Goals
1.	Higher Education Commission	Strengthening of the School of Biological Sciences	Rs. 377.328 million	Infrastructure development of SBS
2.	Prof. Dr. M. Waheed Akhtar Higher Education Commission Ministry of Sciences and Technology.	Production of Bioenergy from plant biomass (a collaborative project with major share of the School of Biological Sciences Lab.)	Rs. 260.329 Million (129.52 million Punjab University component share)	Develop biotechnology for the production of ethanol from plants biomass (under progress).
	Pakistan Academy of Sciences	Production of recombinant cytokine of therapeutic importance	Rs.1.982 million	
	Higher Education Commission	Free circulating molecular markers in cancer diagnosis of tuberculosis using a multiplex microbead immunoassay	Rs.4.198 million	
	EMRO (WHO) Switzerland	Validation study of a rapid and reliable diagnosis of tuberculosis using a multiplex microbead immunoassay.	US\$.12,729.27	
	Pak-US S&T Cooperation	Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis	US\$.262,342.00	University of California Davis, USA
3.	Prof. Naeem Rashid Higher Education Commission of Pakistan	Discovering the missing phosphofructokinase in hyperthermophilic archaeon Pyrobaculum calidifontis	Rs. 5,962,000/-	
4.	Dr. Sadaf Naz Higher Education Commission of Pakistan	Molecular characterization of dystonia and wolfram syndrome in Pakistan (3 years)	Rs.4,198,896.00	
5.	Fogarty International Centre and National Institute on Deafness and other	Genetic basis of moderate to severe hearing loss in Pakistan.	\$.270,000.00	

Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial Support	Main Goals
	Communication Disorders, National Institute of Health, USA			

• **Publications**

Research Articles:

- Muhammad Shahid Nadeem, Naeem Rashid, Muzaffar Iqbal, Qurra-tul-Ann Afza Gardner and Muhammad Akhtar (2011) First cloning and characterization of aspartate aminotransferase from river buffalo (*Bubalus bubalis*). *Biologia* 66: 1202-1210.
- Syed Farhat Ali, Naeem Rashid, Tadayuki Imanaka and Mohammad Akhtar (2011) Family B DNA polymerase from a hyperthermophilic archaeon *Pyrobaculum caldifontis*: cloning, characterization and PCR application. *J. Biosci. Bioeng.* 112: 118-123.
- Naeem Rashid, Saira Akmal, and Muhammad Akhtar (2011) Gene Cloning and Characterization of TK1392, an NADH oxidase from *Thermococcus kodakaraensis* with a distinct C-terminal domain. *Turk. J. Biochem.* 36: 107-115.
- Nouman Rasool, Naeem Rashid, Muhammad Arshad Javed and M. Saleem Haider (2011) Requirement of pro-peptide in proper folding of subtilisin-like serine protease TK0076. *Pak. J. Bot.* 43: 2059-2065.
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- Gene cloning and characterization of glycine oxidase from newly isolated *Bacillus subtilis* strain R5. Farrukh Jamil, Naeem Rashid*, Qurra-tul-Ann Afza Gardner & Muhammad Akhtar. *Biologia* 66/1: 1-7 (2011).
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Books:

- YOUSAFZAI, A.M. AND SHAKOORI, A.R., 2011. Pollution of Large Sub-Tropical Rivers- River Kabul, Pakistan. VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG. ISBN 978-3-639-33934-5.
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- SHAKOORI, A.R. AND BUKHARI, D.A., 2011. Molecular Characterization of Cry4 Gene from *Bacillus thuringiensis*. VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG. Germany. ISBN 978-3-639-37596-1. Pp. 345
- SHAKOORI, A.R. AND AHMED, B., 2011. Plasmid Mediated Antibiotic Resistance in Gram-Negative Bacteria. VDM Verlag, Dr. Muller Aktiengesellschaft &CO KG.Germany ISBN 978-3-639-37920-4
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- SULEMAN, A. AND SHAKOORI, A.R., 2011. Physiological Importance of Cadmium Metallothionein Protein- Cloning, Expression Purification and Physiological Importance of MutTMCd1 Gene. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8454-7719-0.
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- CHAUDHARY, R. AND SHAKOORI, A.R., 2011. Copper metallothionein Gene of *Tetrahymena*. – Copper Metallothionein Gene Isoforms. LAP Lambert Academic Publishing GmbH & Co. KG, Germany. ISBN 978-3-8465-1669-0.

- SALIHA, Z., SATTAR, A., FARID, A. AND SHAKOORI, A.R., 2012. Termites of Pakistan & their Control. Zoological Society of Pakistan, pp. 102. ISBN 9078-969-9715-00-6.
- Naz S (2012). Genetics of nonsyndromic recessively inherited moderate to severe and progressive deafness in humans in "Hearing Loss" ed Naz S, Intechweb, Croatia. Chapter 12, pp 247-274. (ISBN 979-953-307-271-4)
- **Conferences, Seminars and Workshops etc.**
 - Prof. Dr. Javed Iqbal**
 - Attended 2nd international Conference of Plant Scientist at Lahore Feb, 22-24, 2011 and delivered a key note address entitled "Molecular marker based analysis of sugarcane genotype susceptible of resistant against Red Rot and Rust diseases.
 - Attended Pak-US Technology Conference at Dubai March 23-28, 2011 and present paper "Enhancement of sugarcane Production in Pakistan by modern molecular tools"
 - Prof. Dr. A.R.Shakoori**
 - 31st Pakistan Congress of Zoology, held in University of Azad Jammu & Kashmir, Muzaffarabad on March 1-3, 2011.
 - Participated and made presentation as an invited lecture in the 3rd International Symposium-cum-Training Course on Molecular Medicine and Drug Research held at International Center for Chemical and Biological Sciences, University of Karachi on January 30-6, 2011.
 - Prof. Dr. M. Waheed Akhtar**
 - From genomics to proteomics – an overview. Inaugural talk at the symposium 'Working with Proteins in Post-genomic Era' held at the School of Biological Sciences, University of the Punjab, Lahore, Pakistan, January 6-7, 2010.
 - Role of non-catalytic domains on activities of cellulases and xylanases. Talk in the 14th Biotechnology Symposium, Rimini, Italy, 14–18 Sept., 2010.
 - Engineering proteins for applications. Prof. M. I. D. Chughtai Memorial plenary talk, 10th Biennial Conference of the Pakistan Society for Biochemistry and Molecular Biology, Karachi University, Pakistan, Dec. 1-4, 2010.
 - Engineering proteins for enhancing activities. Prof. Anwar Waqar Memorial plenary lecture, 3rd International Symposium on Molecular Medicine and Drug Research, Karachi University, Pakistan, Jan. 3-6, 2011.
 - Developing enzymes for biomass ethanol production. Invited lecture, Workshop Biotechnology for Economic Development, COMSTECH, Islamabad, 16 – 18 February, 2011.
 - TB diagnostics – an overview. Plenary talk, Project evaluation workshop at EMRO Office, Cairo, Egypt. 24 July, 2011.

Prof. Dr. Shahida Hasnain

- Invited speaker in SAARC Conference on New Frontiers in Agricultural Genomics & Biotechnology held at Marriott Hotel Islamabad from 5 to 7 June 2012 by NIGAB. Gave lecture on "Metagenomics: an approach to study soil microbial communities and their effects on plants"
- Invited Speaker in Agriculture and Food Security Issues in Global Environmental Perspectives" 11th to 13th July 2012 organised by University of Poonch Rawalakot. Gave presentation "Use of metagenomics and high throughput sequencing to understand plant microbe interactions"
- Invited Speaker in National seminar on "Current Status of Food Industry in Pakistan: Threats and Challenges" organized by PCSIR September 6, 2012. Gave lecture on Genetic modifications-road map to crop improvement"
- Presented paper entitled "Impact of treated synechocystis hcb-mkon the growth and biochemical parameters of triticum aestivum (wheat) under chromium stress" in second Phycollogical Conference held in University of Karachi October 16-18.2012
- Organized Workshop on "Biosafety" with collaboration with Sure Bio-Diagnostics in Department of Microbiology and Molecular Genetics, March 4, 2011
- Organized seminar on "Nanotechnology" by Dr Patrice Marche (Inserm, France) in Department of Microbiology and Molecular Genetics, March 7, 2011
- Patron one day workshop on "Fluorescent Microscopy" organized by Department of Microbiology and Molecular Genetics, September 24, 2011
- Patron one day workshop on "Immunofluorescent Techniques" organized by Department of Microbiology and Molecular Genetics, October 20, 2011
- Patron one week workshop on, "In-service faculty training program" University of the Punjab, Lahore, 18-22 October, 2011.
- Gave seminar entitled "Cyanobacteria: Biotechnological Aspects" in The University of Lahore on April 3, 2012.
- Gave seminar entitled "Biotechnological Aspects of Cyanobacteria:" in Hazara University, KPK April 5, 2012
- Gave seminar on "Pyrosequencing – a way to study microbial communities" in Hazara University, KPK April 5, 2012
- Research group discussion with Ph.D. students of Hazara University
- Gave seminar on "Biotechnological aspect of Cyanobacteria" In Department of Microbiology, University of Karachi, October 17, 2012.
- Gave seminar on "Metagenomics: a strategy to study microbial communities" In Department of Microbiology, University of Karachi, October 17, 2012.
- Resource person in one day HEC workshop "Impact of Higher Education in the Social Adjustment of Women in Islamic Perspectives in Pakistan" organizer by IER, Kohat University of Science &

Technology, Kohat in IER Punjab University. Gave Lecture on “Islam, Women & Higher Education: Roles, Responsibilities and Realities”, November 30, 2012

- Gave lecture on ” Genetics Counseling” in Symposium “Lesson Learned from Iran – Pre-marriage Counseling and Volunteer Programme ” organized by Jang Group on January 12, 2012 in PC Lahore
- Gave awareness speech about “Thalassemia” in seminar on Thalassemia in Governor House, Lahore, organized by SUNDAS FOUNDATION on May 17, 2012.

Gave speech about promotion of science and higher education as chief Guest for the 2nd Annual Liberty ISSI (Innovative Scientific Solutions and Ideas) organized by A-level Science Society, Beaconhouse Liberty Campus, Lahore.

FACULTY OF MEDICINE & DENTISTRY

SHAIKH ZAYED POSTGRADUATE MEDICAL INSTITUTE

- **Research & Development – An Overview**

- Shaikh Zayed Postgraduate Medical Institute during the period from 01-10-2011 to 30-09-2012 has been fulfilling its objectives.
- During this period 56 academic activities, 52 Clinicopathological Conference presented, 04 workshops conducted, 77 students were enrolled, 29 in diploma courses, 29 in M. Phil courses, 19 MD/MS courses. 39 students who have completed degrees at SZPGMI, 15 in diploma courses, 19 in M. Phil and 05 in MD/MS.

- **Projects (i) Completed**

Sr. No.	Name	Status	Department	Topic
1	Dr. Fauzia Zubair Nagi	M.Phil	Biochemistry	Comparison of myeloperoxidase in obese individuals with hypertension and without hypertension.
2	Dr. Ambreen Safdar	M.Phil	Chemical Pathology	Association of lipoprotein alpha Lp(a) c-reactive protein in patients of rheumatoid arthritis.
3.	Dr. Naim Ahmed Nizami	M.Phil	Biochemistry	Evaluation of the relationship of high sensitive c-reactive protein, HbA1c and magnesium levels in type-2 diabetes mellitus and newly diagnosed patients of ischemic heart disease.
4.	Dr. M. Naim Ashraf	M.Phil	Chemical Pathology	Evaluation of zinc, copper and cadmium in patients of prostatic carcinoma.
5.	Dr. Sh. Khurram Salam Sehgal	M.Phil	Biochemistry	Comparison between serum levels of cardiac troponin-T & creatine kinase MB isoenzyme in patients presented to hospital emergency with suspected myocardial infarction.

Sr. No.	Name	Status	Department	Topic
6	Dr. Sardar Ali Shah	M.Phil	Chemical Pathology	Association of anti-thyroidperpxide autoantibodies and obesity with recurrent miscarriage.
7	Dr. Tayyaba Muzaffar	M.Phil	Anatomy	Morphological study of lung alveoli of albino rats exposed to dexamethasone during intrauterine development.
8	Dr. Fatima Qamar	M.Phil	Anatomy	Morphological study of liver in adult albino rats exposed to finasteride.
9	Dr. Godfrey Paul	M.Phil	Anatomy	Effect of simvastatin on the morphology and histology of the albino rat ovaries.
10	Dr. Javaid Iqbal	M.Phil	Anatomy	Morphological effects of hydroxyprogesterone caproate on the renal gland of albino rat during gestational period.
11	Dr. Shumaela Kanwal	M.Phil	Physiology	Frequency of female athlete triad syndrome in major teaching institutes of Lahore.
12	Dr. Faiqua Yasir	M.Phil	Oral Pathology	Comparative study of fine needle aspiration cytology with histology of orofacial and cervical lumps.
13	Dr. Farah Bano Niazi	M.Phil	Histopathology	Correlation of fine needle aspiration cytology and touch imprints cytology with histology of palpable breast lesions.
14	Dr. Nadia Aslam	M.Phil	Microbiology	Root cause analysis of methicillin-resistant staphylococcus aureus bacteremia in Sheikh Zayed Hospital, Lahore.
15	Dr. Naima Mehdi	M.Phil	Microbiology	Carbapenemase, as a cause of carbapenem resistance in enterobacteriaceae.
16	Dr. Zulfiqar Ali Memon	M.Phil	Haematology	Multiple myeloma staging in light of B2 microglobulin and c-reactive protein.
17	Dr. Shaista Mobeen	M.Phil	Haematology	Comparison of acridine orange with giemsa staining for diagnosis of malarial parasite.
18	Dr. Faiza Fazal	M.Phil	Haematology	Frequency of kell antibodies in multitransfused patients.
19	Dr Ahmad Alamgir	M.Phil	Pharmacology	Effect of G.O.I on prolonged routine coagulation parameters (prothrombin time and activated partial trthomboplastin time) in rabbits.
20	Dr. Anita Lamichhane	MD	Paediatrics	Role of CRP in the diagnosis of sepsis in early infancy.
21	Dr. Sajjad Hussain	MD	Paediatrics	Invasive Pneumococcal disease (IPD) burden and serotype distribution in hospitalized children under 5 years"

Sr. No.	Name	Status	Department	Topic
22.	Dr. Praphulla Shrestha	MS	Orthopaedics	Comparative study of two treatment methods in patella fractures.
23.	Dr. M. Awais Bhutta	MS	Orthopaedics	Comparison of closed reduction and percutaneous pin fixation of distal radial fractures with external fixation with pins and plaster.
24.	Dr. Aqeel Ahmad	MS	Cardiothoracic Surgery	Outcome of surgical management of ischemic heart disease in patients with end stage renal disease.

(ii) Newly Launched

Sr. No.	Name	Status	Department	Topic
1	Dr. Umme Habiba	M.Phil	Haematology	Frequency and Types of red cell alloantibodies in pregnant females.
2	Dr. Lubna Humayun	M.Phil	Haematology	The effect of eradication of helicobacter pylori infection on the platelet counts in patients presenting with idiopathic thrombocytopenic purpura.
3.	Dr. Naseem Akhtar	M.Phil	Haematology	Glucose-6 phosphate dehydrogenase deficiency in jaundiced neonates and its relationship with severity of hyperbilirubinemia.
4.	Dr. Aliya Tariq	M.Phil	Haematology	Incidence of bone marrow fibrosis in myeloproliferative disorders.
5.	Dr. Shahnaz Fatima	M.Phil	Pharmacology	Comparative evaluation of antiulcer effect of fluvoxamine, mirtazapine and omeprazole against aspirin induced ulcer in rats.
6.	Dr. Saba Tariq	M.Phil	Pharmacology	Effect of bisphosphonate therapy on serum leptin and homocysteine in postmenopausal osteoporotic females.
7.	Dr. Afshan Jabeen	M.Phil	Microbiology	Identification and antimicrobial sensitivity of bacteria colonizing the lower respiratory tract of ventilated patients.
8.	Dr. Afsheen Siddiqi	M.Phil	Pharmacology	Protective role of picrorhiza kurroa on hepatorenal toxicity induced by nimesulide.
9.	Dr. Areej Rashid	M.Phil	Anatomy	Morphological and histological effects of aqueous green tea extract on ovaries of adult albino rats.
10.	Dr. Sitwat Mudassir	M.Phil	Anatomy	Morphological histological and biochemical effects of aqueous extract of neem (Azadirachta Indica) on liver of adult albino rats.

Sr. No.	Name	Status	Department	Topic
11.	Dr. Hafiz Moeen-ud-Din	M.Phil	Anatomy	Morphological and histological effects of ribavirin on adult ovary of albino rat.
12.	Dr. Sobia Ibrahim	M.Phil	Anatomy	Morphological and histological effects of ajinomoto on fallopian tubes of adult albino rat.
13.	Dr. Asma Siddique	M.Phil	Anatomy	Morphological and histological effects of garlic (<i>Allium Sativum</i>) on liver of adult albino rats.
14.	Dr. Shafia Tufail	M.Phil	Anatomy	Morphological and Histological effects of haloperidol on fetal liver of albino rat.
15.	Dr. Shazia Aslam	M.Phil	Histopathology	Frequency of fungal diseases in nasal and paranasal sinuses masses
16.	Dr. Shamia Zeeshan	M.Phil	Histopathology	Frequency of various malignant neoplasms in ampullary and periampullary region biopsies. A sheikh Zayed Hospital experience.
17.	Dr. Madiha Nadeem	M.Phil	Histopathology	Assesment of sialomucin and cellular infiltrates in adenocarcinoma in gastric biopsies.
18.	Dr. Noora Hassan	M.Phil	Physiology	Comparison of serum vitamin D levels in Obese and normal individuals.
19.	Dr. M. Rehman Maqsood	M.Phil	Haematology	Significance of red cell parameters and serum hepcidin level in differentiating iron deficiency anaemia from anaemia of chronic disease.
20.	Dr. Saadia Rahim	M.Phil	Physiology	Effect of use of maternal epidural anesthesia during child birth on neonatal health.
21.	Dr. Faiza Irshad	M.Phil	Anatomy	Morphological, Histological and biochemical effects of solvent extract of ginger on kidneys in alloxan induced diabetic nephropathy of albino rats,
22.	Dr. Faseela Imdad	M.Phil	Haematology	Assessing the value of non-invasive markers for the prediction of esophageal varices in patients with chronic liver disease.
23.	Dr. Waliullah	M.Phil	Physiology	Serial physiological assessment of biochemical parameters of whole blood stored in vitro.
24.	Dr. Saadia Sajjad	M.Phil	Physiology	Prognostic value of c-reactive protein in acute myocardial infarction patients treated conservatively and undergoing percutaneous coronary intervention.
25.	Dr. Munazza Khan	M.Phil	Physiology	Association of plasma interleukin-6 in metastatic & Non-metastatic prostate cancer patients in Pakistani population.

Sr. No.	Name	Status	Department	Topic
26.	Dr. Ambreen Masud	M.Phil	Physiology	Relationship between serum parathyroid hormone and severity of hypertension in hemodialysis patients.
27.	Dr. Shazia Rishi	M.Phil	Microbiology	Role of antimicrobial substances as a cause of sterile pyuria.
28.	Dr. Maha Bashir Tahir	M.Phil	Microbiology	In vitral activity of fosfomycin against staphylococcus aureus and enterobacteriaceae.
29.	Dr. Saira Munawar	M.Phil	Anatomy	Morphological Histological and biochemical effects of energy & caffeinated drinks on liver of adult albino rats.
30.	Dr. Samra Afzaal	M.Phil	Anatomy	Changes in skeletal muscle as an effect of drastic dieting and refeeding program in albino rats.
31.	Dr. Sadia Haleema	M.Phil	Biochemistry	Predictive values of serum calcium and magnesium in development of pre-eclampsia.
32.	Dr. Maira Mahmood	M.Phil	Biochemistry	Comparison of serum ferritin and IDH with CA 15-3 in breast cancer patients.
33.	Dr. Arham Javed	M.Phil	Biochemistry	Study of retinol binding protein-4 as biomarker of renal injury in type II diabetic patients.
34.	Dr. Bisma Sadaf Ali	M.Phil	Biochemistry	Effect of hypothyroidism on serum uric acid levels.
35.	Dr. Sidra Butt	M.Phil	Oral Biology	Comparative evaluation of prediction methods for the estimation of size of unerupted canine & premolars during mixed dentition in Pakistani population.
36.	Dr. Rabia Asad	M.Phil	Community Dentistry	Effects of atraumatic restorative treatment on streptococcus mutans count in saliva of pregnant women, A randomized control trail.
37.	Dr. Sara Ijaz	M.Phil	Oral Biology	The effect of enamel deproteinization before acid etching on enamel surface area.
38.	Dr. Hafiz Arsalan Wahid	M.Phil	Oral Pathology	Effect of non-surgical periodontal therapy on serum albumin levels of patients on maintenance hemodialysis therapy. A randomized control trail.
39.	Dr. Faiza Awais	M.Phil	Community Dentistry	Comparison of peer and professional-led education on oral hygiene knowledge, attitude and practices of females of child bearing age, A randomized control trail.

Sr. No.	Name	Status	Department	Topic
40.	Dr. Afifa Ehsan	M.Phil	Oral Biology	Photographic analysis of soft tissue facial profile in patients with class II malocclusion.
41.	Dr. Mariyah Javed	M.Phil	Oral Pathology	Mother-child pair transmission of streptococcus mutans; polymerase chain reaction based study.
42.	Dr. M. Mohsin Kamal	M.Phil	Community Dentistry	Factors affecting access to dental care in people entitled to free treatment.
43.	Dr. Sanan Kanwal	M.Phil	Oral Pathology	Correlation between viral load of saliva and serum in hepatitis C positive patients: A quantitative analysis.
44.	Dr. M. Jamal Hussain	M.Phil	Oral Health Sciences	Mental stress among undergraduate dental students in Lahore.
45.	Dr. Kiran Naheed	M.Phil	Oral Health Sciences	Dental arch dimensions and vertical facial morphology of local population.
46.	Dr. Fatima Ishfaq	M.Phil	Oral Health Sciences	Effect of educational intervention in mothers for prevention of caries in their children, a randomized controlled trial.
47.	Dr. M. Aafaaq Agha	M.Phil	Histopathology	Correlation of HER-2/neu status with estrogen (ER) and progesterone (PR) receptors in breast malignancies.
48.	Dr. M. Sahfi Ghorri	M.S.	Urology	Comparison of clearance of renal stone in patients using terazosin versus tamsulosin following extra corporeal lithotripsy.
49.	Dr. Masoom Ali Shah	M.S.	Pediatric Surgery	Short term results of modified duhamel's procedure in children above the age of two years.
50.	Dr. Abdul Qayyum	M.S.	Pediatric Surgery	Predictive value of TLC, and CRP in children with clinically suspected acute appendicitis.
51.	Dr. Roshana Khadka	M.D.	Radiology	Validation of Waseem 4 formula in predicting birth weight by ultrasonography.
52.	Dr. Zulfiqar Ali	MS	Gen. Surgery	The combined role of Alvarado score and ultrasonography for the diagnosis of acute appendicitis.
53.	Dr. Zubin Silwal	MS	Urology	Outcome of percutaneous nephrostomy in obstructive uropathy.
54.	Dr. Usman Khan	MS	Plastic Surgery	Role of supraclavicular flap for management of post burn neck contractures.
55.	Dr. Hassan Imtiaz	MS	Gen. Surgery	Closed versus open lateral internal sphincterotomy for chronic anal fissure. A comparative study of postoperative complications.

Sr. No.	Name	Status	Department	Topic
56.	Dr. Shafique-ur-Rehman	MS	Gen. Surgery	The diagnostic yield of fine needle aspiration cytology verses excision biopsy for the diagnosis of thyroid nodule.
57.	Dr. Nauman Yousaf	MD	Gastroenterology	Comparison of frequency of autonomic neuropathy in diabetic cirrhotic patients with non diabetic cirrhotic patients in child class A-B and its association with esophageal variceal bleed.
58.	Dr. M. Abid	MS	Neurosurgery	Supratentorial mass lesions biopsy using frameless stereotactic system: diagnostic yield, surgical morbidity, and comparison with free-hand biopsy.
59	Dr. Fakhar Zaman	M.Phil	Haematology	The Frequency of sickle cell disease/trait among anaemic children in tribal area of derazenda D.I. Khan District.
60	Dr. Ashok Kumar	M.Phil	Haematology	Frequency of red cell alloimmunization in multitransfused Beta thalassemia major patients.
61	Dr. Chetan Lal	M.Phil	Haematology	Frequency of factor VIII inhibitors in patients with hemophilia A.
62	Dr. Ejaz-ud-Din	M.Phil	Chemical Pathology	Study of serum leptin level among obese and non-obese prepubertal children of down syndrome and their siblings.
63	Dr. M. Fahim Ch.	MD	Radiology	Sensitivity and specificity of magnetic resonance cholangiopancreatography in diagnosis of obstructive jaundice.
64	Dr. Ali Raza Dadgar	MD	Radiology	Sensitivity and specificity of transrectal ultrasonography (TRUS) in diagnosing prostate cancer.
65	Dr. Nauman Yousaf	MD	Gastroenterology	Comparison of frequency of autonomic neuropathy in diabetic cirrhotic patients with non diabetic cirrhotic patients in child class A-B and its association with esophageal variceal bleed
66	Dr. Bijaya Mansing Katwal	MS	Urology	Frequency of positive cases of carcinoma of the prostate detected on TURP in patients with raised serum PSA levels & negative TRUS-guided biopsy.
67	Dr. Imran Salim Malik	MS	Orthopaedics	Comparative analysis of two treatment methods or complex long bone fractures.

Sr. No.	Name	Status	Department	Topic
68	Dr. Kamran Ahmed	MS	Cardiothoracic Surgery	Preoperative amiodrone as prophylaxis against new onset atrial fibrillation after coronary artery bypass grafting in patients with moderate to poor left ventricular function.
69	Dr. M. Musa Kakar	MS	Urology	Role of antibiotics in raised serum prostate specific antigen (PSA).
70	Dr. Jermista Singh	MD	Paediatrics	Comparison of efficacy and safety of saccharomyces boulardii and zink when added to ORS vs ORS alone in the treatment of acute watery diarrhea in children.
71	Dr. Riaz Khan Tunio	MS	Orthopaedics	Study of management of diaphyseal fractures tibia with interlocking nail or narrow dynamic compression plate.
72	Dr. Abdul Waheed Bhutto	MS	Plastic Surgery	Reliability of distally based fasciocutaneous sural artery flap for the soft tissue defects of ankle and foot.
73	Dr. Mehnaz Akram Shaikh	MS	Gynae & Obst	Comparison of Metformin and laparoscopic ovarian drilling in producing ovulation in clomiphen citrate resistant anovulatory women in polycystic ovarian disease.
74	Dr. Farhan Arshad	MS	Urology	Accuracy of PCR as compare to urine culture in early diagnosis of genitourinary tuberculosis.
75	Dr. Abdul Rab	MS	Urology	Effectiveness of extracorporeal shock wave lithotripsy in the management of renal stones with reference to size and position of the stone.

FACULTY OF ORIENTAL LEARNING

UNIVERSITY ORIENTAL COLLEGE

- **Conferences, Seminars and Workshops etc.**
 - International Punjabi Conference and Mushaira were held on 22-23-09-11 with the collaboration of Punjabi Department in which Foreign and Pakistani Eminent scholars participated. The Vice Chancellor, University of the Punjab was the chief guest of this conference.
 - Syed Hujavari Seminar was held on 10-11 January 2012, with the collaboration of Arabic Department and Oriental College.
 - Punjabi Naatia Musharia regarding Melad-u-Nabi (PUBH) held on 17-02-2012 in Sharani Hall.
 - Punjabi Adbi Mujlis "Jaggat Boli Dehar" in Sharani Hall held on 21-02- 2012 in Sharani Hall.
 - Urdu Naatia Musharia regarding Melad-u-Nabi (PUBH) held on 01-03-2012 in Sharani Hall.
 - Syed Hujavari Seminar "Critical Analysis regarding translation and publication" of famous book of "Kashaf-ul-Mahjoob" in Sharani Hall held on 05-03-2012.

- Punjabi seminar “Shah Hussain” held on 18-4-2012 in Sharani Hall.
- Faiz Ahmad Faiz/ Meera Gee “Urdu Seminar” on 10-05-2012 in Sharani Hall.
- Special Lecturer on Seerat of “Hazrat Abu Bakar Sadique R.A.” on 11-05-2012 in Sharani Hall.
- Special Informative Lecturer on “Dengue Fever” to the students, teachers and employees of the Oriental College on 26-08 & 02-09-2012.
- Punjabi seminar “Bulhay Shah” on 27-09-2012 in Sharani Hall.
- **Research Journals**
 - Recognized and historical Research Journal “Oriental College Magazine” has been publishing since 1925.

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Al-Jamia Al-Azhar, Cairo, Egypt.
 - Daito Bunka University Tokyo, Japan
 - Ningxia University, China
 - Tehran University, Iran.
 - King Saud University, Al-Riadh, Saudi Arabia

DEPARTMENT OF ARABIC

- **Projects (ii) Newly Launched**

Name of Researcher	Topic of Research	Sponsoring Agency	Approved Amount	Status
Dr. Hamid Ashraf Hamdani		Punjab University, Lahore	200,000	Submitted
Dr. Haris Mubeen		Punjab University, Lahore	150,000	Continue
Dr. Moqheet Javed	The contribution of European Orientalist to the Arabic studies in the subcontinent	Punjab University, Lahore	150,000	Continue
Dr. Abdul Majid Nadeem		Punjab University, Lahore	150,000	Continue

- **Publications**

Authors Name	Article Name	Journal with Date	Sponsoring Agency
Prof. Dr. Khaliq Dad Malik		Majallah Al Qism Al Arabi / 2011	Punjab University, Lahore
Dr. Hamid Ashraf Hamdani		Oriental College Magazine / 2011	Punjab University, Lahore
Dr. Hamid Ashraf Hamdani		Oriental College Magazine / 2011	Punjab University, Lahore

Authors Name	Article Name	Journal with Date	Sponsoring Agency
Dr. Hamid Ashraf Hamdani		Oriental College Magazine / 2012	Punjab University, Lahore
Dr. Hamid Ashraf Hamdani		Oriental College Magazine / 2012	Punjab University, Lahore
Dr. Haris Mubeen		Oriental College Magazine / 2011	Punjab University, Lahore
Dr. Moqheet Javed		Oriental College Magazine / 2012	Punjab University, Lahore
Dr. Moqheet Javed		Research Journal, Oriental Learning / 2012	Punjab University,
Dr. Hafiz Abdul Qadeer		Oriental College Magazine / 2011	Punjab University,
Dr. Hafiz Abdul Qadeer		Al Adwa / 2012	Punjab University,
Dr. Hafiz Abdul Qadeer	Woman in Nizar Qabbani's Poetry	Oriental College Magazine / 2012	Punjab University,
Dr. Abdul Majid Nadeem		Oriental College Magazine / 2012	Punjab University,

- Books**

Authors Name	Book Name	Publisher	No. of Pages	Year of Publication
Dr. Khaliq Dad Malik		Oriental Books, Lahore	440	2012
Dr. Khaliq Dad Malik	An Introduction to Arabic Language & Literature	Azad Book Depot, Urdu Bazar, Lahore	224	2011
Dr. Khaliq Dad Malik		Idarah Sout Hadi, Sheikhu Sharif, Okara	304	2011
Dr. Khaliq Dad Malik		Madina Foundatio, Faisalabad	400	2012
Dr. Khaliq Dad Malik	Selection from Arabic Poetry & Prose	Azad Book Depot, Urdu Bazar, Lahore	341	2012
Dr. Hamid Ashraf Hamdani		Idarah Taleef ur Tarjamah, PU, Lahore	400	2012

- Conferences, Seminars and Workshops etc.**

Conference/ Seminar/Workshop	Tile & Date	Sponsor	Organizaer
Seminar	Syed Hajver Tasawuf Seminar 10/01/2012	Auqaf Department, Govt. Punjab, Lahore	Arabic Department

- **Research Journals**

Journal Name	Editor Name	Remarks
Majallah Al Qism Al Arabi, Department of Arabic, PU, Lahore Issue No. 18 / 2011	Prof. Dr. Khaliq Dad Malik	Annual

DEPARTMENT OF PERSIAN

- **Publications: Books/Edited**

- Muhammad Saleem Mazhar & Nasir Muhammad, (2012) Translated, Edited and Annotated Raja Anwar's Urdu Book "Qabar ki Aghoosh" with the title "Aghosh e Qabar. Department of Persian, University of the Punjab, Lahore
- Muhammad Saleem Mazhar & Goraya, Naheed S. (2011). Issues & Challenges in SAARC Countries. Lambert Academic Publishing, Germany.
- Muhammad Saleem Mazhar (2012) Department of Persian, University of the Punjab, Lahore
- Ghulam Moeen ud Din (2012), Biography of Qibla-e-Alam (English Translation of the Tazkira-e-Sultaniyya) Khanqah-e-Fathiyya, Sultaniyya, printed in the United Kingdom.
- Ghulam Moeen ud Din (2012), Urdu Translation of Amir Khusro's Persian Poetry (Selected by Sufi Tabbassam), Packages, Lahore
- Ghulam Moeen ud Din (2012), Risale-ye- Adab al Mashq by Baba Shah Isfahani, Tehran, Iran.
- Muhammad Nasir (2012) & Muhammad Saleem Mazhar, Translated, Edited and Annotated Raja Anwar's Urdu Book "Qabar ki Aghoosh" with the title "Aghosh e Qabar. Department of Persian, University of the Punjab, Lahore
- Muhammad Nasir (2012) Ministry of Culture, Iran
- Muhammad Nasir (2012) Fardowsi Chair, Punjab University, Lahore.
- Muhammad Nasir (2012) Fardowsi Chair, Punjab University, Lahore.
- Muhammad Nasir (2012) Khawaran Publishers, Lahore
- Muhammad Nasir (2012) Khawaran Publishers, Lahore

- **Research Articles Published National & International:**

- Muhammad Saleem Mazhar & Goraya, Naheed S. (November 2011). Iran as a Regional Player in Afghanistan, International Journal of Contemporary Research and Business, UK, 03 (07).
- Muhammad Saleem Mazhar & Oziar Samee Khan (Winter 2012). Ethnic Factor in Afghanistan, Journal of Political Studies, University of the Punjab, Lahore, 19 (02).
- Muhammad Saleem Mazhar & Goraya, Naheed S. (Winter 2011). Drone War Against Pakistan, Journal of Political Studies, University of the Punjab, Lahore, 18 (02).
- Muhammad Saleem Mazhar & Jabeen, Mussarat (2011). Security Game: SEATO and CENTO As Instrument of Economic and Military Assistance to Encircle Pakistan, Pakistan Economic and Social Review, University of the Punjab, Lahore 49 (01).

- Muhammad Saleem Mazhar (2011). Ghaalib Aur Haameyaan e qateel , Safeenah, University of the Punjab, Lahore, 10
- Ghulam Moeen ud Din (2012), “ In the Memory of Iraj Afshar”, Gozaresh-e-Miras, Tehran. Vol. No.48/01.
- Ghulam Moeen ud Din (2011), “Studies on Shams-e- Tabrizi in the Sub-Continent”, Tasavvuf, Istanbul, Turkey. Vol. 12/27, 203-218.
- Ghulam Moeen ud Din (2012), “ , Muaraf e Oliya, Lahore. Vol () Issued # 04, 23-30
- Ghulam Moeen ud Din (2012) , Paghaam e Ashna, Cultural Conciliate Islamic Republic of Iran. Vol (13), Issued # ,188-194
- Ghulam Moeen ud Din (2012), “
- Ghulam Moeen ud Din (2012), Dr. Qasem Safi “An Important Iranian Pakistan Studies, Scholar”, Qoumi Zaban, Karachi.
- Ghulam Moeen ud Din (2012), Masnawi Nale-ye Ney by Imad al Mulk Nawab Ghazi ud Din Khan Nizam”, Safeenah, A Research Journal of Persian Department, University of the Punjab, Lahore. Vol.10, 22-47.
- Najam ur Rashid(2012) “Mutaliat Zobane Farsi Wa Iranshanasi dar Daneshgahe Punjab” Danish, Islamabad. Issue No.(106-107), 205-216.
- Najam ur Rashid(2012) “Iran Main Aarzo Shinasi” Safeeneh, A Research Journal of Persian Department University of the Punjab. Lahore. Vol(10), 186-199
- Najam ur Rashid(2011) “Barrasi Anaasir e Naqad Share Tazkira -e- Meratul Khial.” Safeeneh, A Research Journal of Persian Department University of the Punjab. Lahore. Vol(9), 63-90
- Najam ur Rashid(2011) “Share Bedal dar Aaina Tazkira haa.” Oriental College Magazine, University of the Punjab, Lahore Vol(86), 97-108.
- Muhammad Nasir, “ , Almas, Vol.13
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 31, Sr. No. 81, 61-76
- Muhammad Nasir, “ , Zaban-o-Adab, G.C. University, Faisalabad. Volume 7, 39-48
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 82, 05-32
- Muhammad Nasir, “ , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 83,35-44
- Muhammad Nasir, “ , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 84, 05-26

- Muhammad Nasir, "Urfi Shirazi, The Futurist Persian Poet of Indian Style, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 85, 03-18
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 86, 05-16
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 87, 45-52
- Muhammad Nasir, , Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 324, 99-114
- Muhammad Nasir, , Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 325, 93-100
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 88, 25-42
- Muhammad Nasir, , Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 326, 105-133
- Muhammad Nasir, , Danesh, Iran Pakistan Research Institute, Islamabad, Vol 108, 137-153
- Muhammad Nasir, , KHOJ, University of the Punjab, Lahore, Pakistan. Volume 35, Sr. No. 69, 31-38
- Muhammad Nasir, , Safeenah, A Research Journal of Department of Persian, University of the Punjab, Lahore. Vol (10), 201-207
- Muhammad Nasir, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Syed Muhammad Farid, , Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Syed Muhammad Farid, Role of Iranian and Central Asian Prose Writer in Ghazanavids in Sub-Continent , Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 70-90, 2012
- Classical Prose in Saddat Period in Sub-Continent (Majala e Tahqiq, Faculty of Oriental Learning, University of the Punjab ,Lahore. Vol 88, pp 47-54 2012.
- **Conferences, Seminars and Workshops etc.**
 - Muhammad Saleem Mazhar(Dec.2011), "Pakistan and Global Affairs", Senit Hall, University of the Punjab, Lahore
 - Muhammad Saleem Mazhar(Nov.2011), "International Punjabi Conference", University of the Punjab, Lahore
 - Mazhar Muhammad Saleem(Nov.2011), "National Poet of Kashmir Conference", Department of Kashmiryat, University of the Punjab, Lahore

- Ghulam Moeen ud Din (5th March 2012), “National Conference on Kashfal Mahjub”, Hujveri Chair, University of the Punjab, Lahore
- Ghulam Moeen ud Din (2012), “International Shiekh Abu al Hassan Kharkani Symposium”, Kafkaz University, Kars, Turkey.
- Ghulam Moeen ud Din (Feb 23-24, 2012), “International Mir Ali Shir Nawai Symposium”, Fatih University, Kayseri, Turkey.
- Ghulam Moeen ud Din (Sep 30, Oct. 1-2, 2011) “International Burhanudin Muhaqiq Tirmizi Symposium”, Erciyes University, Kayseri, Turkey.
- Najam ur Rashid (Dec.2011), “Pakistan and Global Affairs”, Senit Hall, University of the Punjab, Lahore
- Najam ur Rashid (Nov.2011), “International Punjabi Conference”, University of the Punjab, Lahore
- Najam ur Rashid (Nov.2011), “National Poet of Kashmir Conference”, Department of Kashmiryat, University of the Punjab, Lahore
- Syed Muhammad Farid (Dec.2011), “Pakistan and Global Affairs”, Senit Hall, University of the Punjab, Lahore
- Syed Muhammad Farid (Nov.2011), “International Punjabi Conference”, University of the Punjab, Lahore
- Syed Muhammad Farid (Nov.2011), “National Poet of Kashmir Conference”, Department of Kashmiryat, University of the Punjab, Lahore
- Muhammad Sabir (Dec.2011), “Pakistan and Global Affairs”, Senit Hall, University of the Punjab, Lahore
- Muhammad Sabir (Nov.2011), “International Punjabi Conference”, University of the Punjab, Lahore
- Muhammad Sabir (Nov.2011), “National Poet of Kashmir Conference”, Department of Kashmiryat, University of the Punjab, Lahore
- Shoaib Ahmed (Dec.2011), “Pakistan and Global Affairs”, Senit Hall, University of the Punjab, Lahore
- Shoaib Ahmed (Nov.2011), “International Punjabi Conference”, University of the Punjab, Lahore
- Shoaib Ahmed (Nov.2011), “National Poet of Kashmir Conference”, Department of Kashmiryat, University of the Punjab, Lahore
- Shoaib Ahmed (Oct.2011), “Painting the Persian of Kings today”, National College of Arts, Lahore.

DEPARTMENT OF KASHMIRYAT

• Publications: Books/Edited

- Aziz Dr. Khawaja Zahid, Raza, Dr. Syed., Ali, Tasveer –e- Kashmiryat, (2012) Dogar Publishers, Urdu Bazar, Lahore.

- **Research Articles Published National & International:**

- Dr. Khwaja Zahid Aziz, Reforms of Dogra rulers in Jammu & Kashmir, Khuda Baksh Library Journal. India, vol.156, P.67 to 76, Y. 2009.
- Dr. Khwaja Zahid Aziz, Kashmir, Azadi Sa Gulami Tak, Tahqiq, Pakistan, vol. 29, P. 51to 60, Y.2008
- Dr. Khwaja Zahid Aziz, Tarikh-i-Kashmir Ka Ek Wark, Oriental College Magazine, Pakistan, vol. 85, P. 175 to186, Y.2010
- Dr. Khwaja Zahid Aziz, Pirzada Ghulam Ahmad Majhoo, National Poet of Kashmir, Mujala Tahqiq, Pakistan, vol. 31, P. 411 to 420, Y. 2010.
- Dr. Khwaja Zahid Aziz, Kashmir, Punjab & Punjabi Adab, Khooj, Pakistan, vol. 33, P. 153 to 160, Y. 2010.
- Dr. Khwaja Zahid Aziz, Kashmir aur Iran Ka Adbi Wa Tehzibi Mushtarakat, Safeenah, Pakistan, vol. 10, P. 178 to 185, Y. 2011
- Dr. Khwaja Zahid Aziz, Kashmir Islami Tarikh Ka Tanazar Mai, Tahqiq, Pakistan, vol. 79, P.149 to 170, Y. 2010.
- Dr. Khwaja Zahid Aziz, Promotion of Islamic Literature in Kashmir, Tahqiq, Pakistan, vol. 82, P. 5 to 12, Y. 2011
- Dr. Khwaja Zahid Aziz, Bainama Amritsar – aik Jaiza, Tahqiq, Pakistan, vol. 85, P. 81 to 94, Y. 2011
- Dr. Khwaja Zahid Aziz, Promotion of Persian Literature in Kashmir, Safeena, Pakistan , vol. 10, P. 40 to 44, Y. 2012
- Dr. Muhammad Ashraf Qureshi, Jamia Masjid Sir Nagar ka Siasi aur Islami Kirdar, Sangarmal, 2011.
- Dr. Muhammad Ashraf Qureshi, Dria-e-Kishan Ganga sy Neelam Tak, Sangarmal, 2011.
- Dr. Syed Ali Raza, The Shawls of Kashmir, Sangarmal, 2011.
- Dr. Syed Ali Raza, Jammu-o-Kashmir Tareekh ky Ainy me, Tehqeeq, 2012.
- Dr. Nusrat Nisar, Shams Faqeer- Kashmir ka Jadeed Sufi Shayair, Sangarmal, 2011.
- Dr. Nusrat Nisar, Haba Khatoon Ehed Saaz Shaiyara, Sangarmal, 2011.
- Dr. Nusrat Nisar, Lila Arifa Kashmir ki Tarjmaan, Tehqeeq, 2011.

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

- Kashmir ki Romanvi Shaiyra (Haba Khatoon) Ehwal-o-Asaar, 12th January, 2012, Kashmiryat Department, University of the Punjab, Lahore.
- Kashmir par Irani Saqafat ky Asraat, 16th Feburary, 2012, Kashmiryat Department, University of the Punjab, Lahore.
- Masla-e-Kashmir Majooda Tanazar me, 07th March, 2012, Kashmiryat Department, University of the Punjab, Lahore.

- Kashmir aur Bartaanvi Policy, 16th April, 2012, Kashmiryat Department, University of the Punjab, Lahore.
- Kashmir me Farsi Adab Ak Jaiya, 16th May, 2012, Kashmiryat Department, University of the Punjab, Lahore.
- Kashmir Ki Alaqaiee Zubany aur in ka Adab, 14th June, 2012, Kashmiryat Department, University of the Punjab, Lahore.
- Azad Kashmir Hakomat- Ak Jaiya, 19th September, 2012, Kashmiryat Department, University of the Punjab, Lahore.

International Conferences:

- Dogri Zuban aur is ka Adab, Adbi Kamraaz Board, Poonch, Rajuri Jammu & Kashmir, 30th June, 2012.
- Sheikh Noor-ud-Din Rashi aur Falsfa-e-Tasawuf, Sheikh Noor ud Din Chair, Srinagar University, Srinagar Kashmir, 23rd August, 2012.

DEPARTMENT OF PUNJABI

• Publications: Books/Edited

- Prof. Dr. Ismat Ullah Zahid *Maraj Nama Qadaryar (Tehqiq-o-Tarteeb)* 2012.

• Research Articles published National & International:

- Prof. Dr. Ismat Ullah Zahid. British library london wick maujod C Harfi madha gous da qalmi nuskhah Issue (Khoj) 66, Department of Punjabi, Jan–June 2011, PP 31-46.
- Prof. Dr. Ismat Ullah Zahid.. *Waris Shah ka qaido(nafsati mutalia*. Issue (Khoj) 67, Department of Punjabi, July–December 2011, PP 103-112.
- Prof. Dr. Ismat Ullah Zahid. *Filmi Dunia da ik gumnam Shair Gulzar Khaleel*. Issue (Khoj) 68, Department of Punjabi, Jan–Jun 2012, PP 39-56.
- Prof. Dr. Nabila Rehman. *Wahdat ain ayan te Khawaja Gulam Farid di Shairi*. Issue (Khoj) 68, Department of Punjabi, Jan–Jun 2012, PP 69-80.
- Dr. Naheed Shahid. *Dr.Faqeer di Gazal* . Issue (Khoj) 68, Department of Punjabi, Jan–Jun 2012, PP 09-18
- Dr. Naveed Ahmad Shehzad. *Hitler ka nazria qumiat o muqamiat*. Issue (Khoj) 68, Department of Punjabi, Jan–Jun 2012, PP 111-120
- Dr. Naveed Ahmad Shehzad. *Punjabi Zuban okran ty hilly waseelay*. Issue (Monthly Sawair International Lahore), Department of Punjabi, Jun 2012, PP 08-10
- Dr. Asma Qadri. *Dr Aslam Rana Hyati ty likhta*. Issue (Khoj) 68, Department of Punjabi, Jan–Jun 2012, PP 19-38
- Dr. Asma Qadri. *Charkhy de warty Punjabi shairi wanka wick*. Issue (Majallah Tehqeeq), Department of Punjabi, Jan–Mar 2012.

- Dr. Saadat Ali Saqib. *Sur, lafz te zuban*. Issue (Khoj) 67, Department of Punjabi, Jul–Dec 2011, PP 49-56
- Dr. Saadat Ali Saqib. *Punjab di mudhli mosiqi(ik tareekhi mutalia)*. Issue (Khoj) 68, Department of Punjabi, Jan-Jun 2012, PP 57-68
- Dr. Zaheer Ahmed Shafiq . *Maa boly bary mazhabi nukta-e-nazer*. Issue (Khoj) 68, Department of Punjabi, Jan-Jun 2012, PP 89-94
- **Conferences, Seminars and Workshops etc.**
 - Prof. Dr. Ismat Ullah Zahid. Topic: *Shah Hussain Seminar. Punjab University, University Oriental College, Punjabi Department 2012.*
 - Prof. Dr. Ismat Ullah Zahid. Topic: Sarac Writers Conference. *India March 2012.*
 - Prof. Dr. Ismat Ullah Zahid. Topic: International Mother Tong. *Punjab University Oriental College, Punjabi Department February 2012.*
 - Prof. Dr. Ismat Ullah Zahid. Topic: Sirat-un-nabi seminar *Punjab University Oriental College, Punjabi Department March 2012.*
 - Prof. Dr. Ismat Ullah Zahid. Topic: Buleh Shah Seminar/mushaira *Punjab University Oriental College, Punjabi Department 2012.*
 - Prof. Dr. Muhammad Saeed Khawar Bhutta. Topic: Sultan Bahoo *Punjab Institute Language, Art & Culture Lahore*
 - Prof. Dr. Nabila Rehman. Topic: *Shah Hussain Seminar. Punjab University, University Oriental College, Punjabi Department 2012.*
 - Prof. Dr. Nabila Rehman Topic: Kashaf-ul-Mehjoob Seminar. *Hijvery Chair Punjab University Lahore. March 2012.*
 - Prof. Dr. Ismat Ullah Zahid. Topic: International Mother Tong. *Punjab University Oriental College, Punjabi Department February 2012.*
 - Prof. Dr. Nabila Rehman Topic: Sirat-un-nabi seminar *Punjab University Oriental College, Punjabi Department March 2012.*
 - Prof. Dr. Nabila Rehman Topic: Buleh Shah Seminar/mushaira *Punjab University Oriental College, Punjabi Department 2012.*
 - Prof. Dr. Nabila Rehman Topic: Faiz Sadi, Meera Ji Sadi Seminar *Punjab University Oriental College, Urdu Department May 2012.*
 - Dr. Naheed Shahid Associate Professor Topic: *Shah Hussain Seminar. Punjab University, University Oriental College, Punjabi Department 2012.*
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- Dr. Asma Qadri Assistant Professor Topic: *Shah Hussain Seminar. Punjab University, University Oriental College, Punjabi Department 2012.*
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- Dr. Zahir Ahmed Shafique Assistant Professor Topic: International Mother Tong. *Punjab University Oriental College, Punjabi Department February 2012.*
- Dr. Zahir Ahmed Shafique Assistant Professor Topic: Sirat-un-nabi seminar *Punjab University Oriental College, Punjabi Department March 2012.*
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DEPARTMENT OF URDU

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- Prof. Dr. Zahid Munir Amir. Zafar Ali Khan . . . Khutoot o Khuyoot. Lahore: Zafar Ali Khan Chair, Institute of Communication Studies, University of the Punjab, 2012.
- Prof. Dr. Zahid Munir Amir. Rooshanas. Lahore, Faculty of Oriental Learning in Collaboration with Zafar Ali Khan Chair, ICS, PU, 2012
- Dr. Zia-ul-Hassan. Urdu ki Teesri Kitab. (1st Author). 2012
- Dr. Zia-ul-Hassan. Urdu ki Chatti Kitab. (Mudeer Awal). 2012
- Dr. Zia-ul-Hassan. Urdu ki Naveen Kitab. (1st Author). 2012
- Dr. Zia-ul-Hassan. Shahzad Ahmad: Shaksiat aur Fan. 2012
- Dr. Nasir Abbas Nayyar. Matn, Siaz or Tanzur. Islamabad: Poorab Academy, 2012.

Research Articles Published National & International:

- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. N. M. Rashed: Murawaja Tehzibi o Mazhabi Tasavvorat ka Naqqad. Me'yar. Issue 6, Islamabad: Department of Urdu, International Islamic University, Jul - Dec 2011, PP343-362.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Rashed Ba Nam Yasmin Hassan. Bazyaft. Issue 19, Lahore: Department of Urdu, Oriental College, Punjab University, Jul - Dec 2011, PP237-294.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. "Taraqqi Pasandi" aur "Jadidiyat" Beesvin Sadi ki Urdu Nazm main do matwazi dharay. Journal of Research Urdu. Multan: Faculty of Language and Islamic Studies. Vol 20, Jul - Dec 2011, PP75-88.
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- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Rashed bah nam Safia. Me'yar. Issue 7, Islamabad: Department of Urdu, International Islamic University, Jan - Jun 2012, PP489-530.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Rashed ka Tasawr e Fan un ki Shairy ki Roshni main. Tehqiq Nama. Issue 10, Lahore: Department of Urdu, G.C University, Jan 2012, PP37-47.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Iqbal ka Paigam e Wahdat e Milli aur is ki fikri asaas. Tehqiq Nama. Issue 11, Lahore: Department of Urdu, G.C University, Jul 2012, PP18-26.
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- Prof. Dr. Zahid Munir Amir. Iqbal ka Dil e Dardmand Aur Falastine. Me'yar. Issue 7, Islamabad: Department of Urdu, International Islamic University, Jan - June 2012, PP333-338
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- Prof. Dr. Zahid Munir Amir. Ball Roon Mein Ilm o Fan ka Raqs. Monthly Akhbar e Urdu. Islamabad: June 2012.
- Prof. Dr. Zahid Munir Amir. Islamic Modern Trends in South Asia-Expansion through Media: From the Second half of the nineteenth Century to the Beginning of the Twentieth Century. Included in book captioned: Towards Hetero-Symbiosis and Tolerance Lingua-Culture Contextual Studies in Ethnic Conflict of the World. (Edited by Y Takashina) Lahore: Sang e Meel Publications, August 2012.
- Prof. Dr. Zahid Munir Amir. Zafar Ali Khan Adab Siasat Sahafat ki Kehkhan. Literary Journal Chenab. G.C Wazirabd, 2012.
- Prof. Dr. Zahid Munir Amir. Common Moral Objective and Interfaith Harmony in the Light of Iqbal's Thought (Urdu). Included in: Armaghan e Allama Ala-ud-Din Siddiqui. (Ed by: Dr. Jamila Shoukat), Department of Islamic Studies University of the Punjab, Lahore. 2012.
- Prof. Dr. Zahid Munir Amir. Quaid e Azam Abulhol k Dais Myn. Monthly Mah e Nau. Lahore, Dec 2011
- Prof. Dr. Zahid Munir Amir. Punjab University Mein Zafar Ali Khan Chair ka Qayam. Daily Pakistan. Lahore, November 27, 2011.
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- Prof. Dr. Zahid Munir Amir. Aao na ham bhi sair kareen koh e toor ki (A Travelogue of Mount Sinai) Episode # 3. Monthly Al Hamra. Lahore, October 2011.
- Prof. Dr. Muhammad Kamran. Mirza Rafi Souda ki Urdu Ghazlon kay Angrezi Tarajim. Bazyaft. Lahore. Vol. 19, July-Dec 2011.
- Prof. Dr. Muhammad Kamran. Meer Taqi Meer ki Urdu Ghazlon kay Angrezi Tarajim. Takhliqi Adab. Lahore. Vol. 9, June 2012.
- Prof. Dr. Muhammad Kamran. Translation of Urdu Poetry in English and Problems associated with language translation. Bazyaft. Lahore. Vol. 20, Jan-Jun 2012.

- Prof. Dr. Muhammad Kamran. Khawaja Meer Dard ki Ghazlon kay Angrezi Tarajim. Oriental College Magazine. Lahore. Vol.82, Issue 1, 2011.
- Dr. Baseera Ambreen, Iqbal, Wajud e Zan awr Uqda e Mushkil ki Kashoor. Tekhliqi Adab. Islamabad: National University of Modern Language
- Dr. Zia-ul-Hassan, Urdu Ghazal ka Lisani Mutalia. Included in: Oriental College Magazine, PU , Lahore Issue 4, Vol 86, 2011.
- Dr. Zia-ul-Hassan, Faiz ki shairy aur hamar ahid. Included in: Ajdaad, Karachi: Issue 9, Jan - March 2012.
- Dr. Zia-ul-Hassan, Dr. Jameel Jalibi ki Tanqeed ka Tehzebi Pehlu.. Included in: Ajmaal, Karachi: Issue 3, May 2012.
- Dr. Zia-ul-Hassan, Ikeeswen Sadi ki Pehli Dahai ki Urdu Ghazal. Included in: Asaleeb, Karachi: Issue 4, Jul - Dec 2012.
- Dr. Zia-ul-Hassan, Marwi aur Marjeena - Aik Jaiza. Included in: Asaleeb, Karachi: Issue 4, Jul - Dec 2012.
- Dr. Nasir Abbas Nayyar. Postcolonial Study of Urdu Courses available at SAI, Heidelberg. Included in: Meyar, IIU, Islamabad, Issue No 8, Jul-Dec 2012, P23-62.
- Dr. Nasir Abbas Nayyar. A Study of Imperial Hegemony over the Construction of Local Cultural Identity. Included in: Oriental College Magazine, PU , Lahore Issue 2, Vol 87, 2012. Page 65-98
- Dr. Nasir Abbas Nayyar. Ghalib : Our Timeless Contemporary. Included in: Oriental College Magazine, PU , Lahore Issue 3, Vol 87, 2012. Page 137-156.
- Dr. Nasir Abbas Nayyar. It's Not Appropriate to Comprehend Him a Single Person:Meeraji's Nazm. Included in: Bazyaft, PU,Lahore, Issue No 21,July-Dec 2012, P1-18
- Arifa Iqbal. Kalam-e-Faiz ki Awaleen Mutarjim Kitab. Bazyaft. Lahore. Vol. 19, July-Dec 2011. PP207-220.
- Arifa Iqbal. Kalam-e-Faiz Mutarjama Dr. Mahboob ul Haq. Bazyaft. Lahore. Vol. 20, Jan-Jun 2012.
- **Conferences, Seminars and Workshops etc.**
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Seminar Topic: National Conference on Human Rights. Article Topic: "Urdu Shairy" Insani Haqooq ki Alam bardar. Lahore: Institute of Social and Cultural Study, Punjab University, (13th March 2012).
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Seminar Topic: Faiz/Meera Jee Sadi Seminar aik Roza Qoumi Seminar. Article Topic: Meera Jee – Mamdooh e Rashed. Lahore: Department of Urdu, Oriental College, Punjab University, (10th May 2012).
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Seminar Topic: Qoumi Taraqqi main Urdu Zuban ka Kirdar. Article Topic: Qoumi Taraqqi main Urdu Zuban ka Kirdar. Lahore: Ghazali Education Trust, (16th April 2012).

- Prof. Dr. Zahid Munir Amir. "A workshop on Research Ethics and Endnote and Turnitin". (Participated) (Sep 25-26 2012) Department of Library and Information Science University of the Punjab, Lahore.
- Prof. Dr. Zahid Munir Amir. "International Literacy Day". (Delivered Lecture) (Sep 10 2012) Govt. Punjab Public Library, Lahore.
- Prof. Dr. Zahid Munir Amir. "Iqbal day celebration". (Delivered Lecture) (21 April 2012) Nazriyya Pakistan Trust, Lahore.
- Prof. Dr. Zahid Munir Amir. "Fikr e Iqbal aur Ham". (Delivered Extension Lecture) (19th March 2012) Majlis e Iqbal, Faisalabad.
- Prof. Dr. Zahid Munir Amir. "Adab Aur Zindagi ke Aafaqi Rishtey". (Delivered a speech on the topic) (27th February 2012) Deptt. Urdu Lahore Garrisons Univerity, Lahore.
- Prof. Dr. Zahid Munir Amir. "Dabistan e Iqbal Opening Ceremony". (Observe) (26th February 2012) Dabistan e Iqbal, Lahore.
- Prof. Dr. Zahid Munir Amir. "Who Can strengthen a family? Working Woman or Housewife". (Lecture Delivered) (20th Feb 2012) Deptt. Gender Science Punjab University, Lahore.
- Prof. Dr. Zahid Munir Amir. "Seminar on Allama Iqbal at Faculty of Humanities and Social Sciences". (Presented Research Paper Muhammad Iqbal on Global Human Society and Religion) (29th Nov 2011) Romaschandraduth Burrenchobay Lecture Theatre, University of Mauritius, Mauritius.
- Prof. Dr. Zahid Munir Amir. "Seminar on Allama Iqbal". (Lecture delivered Iqbal on conviction) (28th Nov 2011) High Commission of Pakistan Mauritius at Sir Abdurazzaq Auditorium Phoenix, Mauritius.
- Prof. Dr. Zahid Munir Amir. "Iqbal Day Celebrations". (Lecture delivered on Iqbal's concept of knowledge) (26th Nov 2011) Municipality of Port Louis, Mauritius.
- Prof. Dr. Zahid Munir Amir. "Seminar on Maulana Zafar Ali Khan". (Organized and Conducted) (18th Nov 2011) Institute of Social & Cultural Studies University of the Punjab, Lahore.
- Prof. Dr. Zahid Munir Amir. "A Meetings of Spanish Muslims". (Muslims in Spain) (12th Oct 2011) Seville Jamia Mosque, Seville Spain.
- Prof. Dr. Zahid Munir Amir. "Annual Celebrations Pak German Friendship Association". (Lecture delivered on Responsibilities of Pakistani's abroad) (8th Oct 2011) Karlsruhe, Germany.
- Prof. Dr. Zahid Munir Amir. "An Evening with Dr. Zahir Munir Amir". (Addressed the Ceremony) (8th October 2011) Urdu Writers, Central Coffee House Heidelberg, Germany.
- Prof. Dr. Zahid Munir Amir. "International Conference on Knowledge and Education in Classical Islam Historical Foundations-Contemporary Impact.". (Presented Research Paper the Impact of Classical Islamic Learning on the Contemporary Educational System of Pakistan) (1-5th Oct 2011) Georg August University Gottingen, Germany.

- Prof. Dr. Muhammad Kamran. Adab aur Baqay Bahami. Paper: Classi Urdu Shairy ky Angrizi Trajim aur Baqaiy Bahami. International Conference, Abdul Latif University, Khairpur Sindh, Nov 2012.
- Dr. Zia-ul-Hassan, Fourth International Urdu Conference (Moasir Ghazal kay Takhliqi Imkanat). Karachi: Arts Council of Pakistan, 22 – 25 Nov 2011.
- Dr. Zia-ul-Hassan, Anjuman Taraqqi Pasan Musanfeen kay 75 Year - Seminar. Arts Anjuman Taraqqi Pasan Musanfeen, 3 March 2012.
- Dr. Nasir Abbas Nayyar. Seminar Topic: Sa'adat Hasan Manto Centenary International Seminar, Nov 15-17, 2012, Sahitya Academy, Delhi, Article Topic: Hashiay per Likha Matn:Manto kay Afsany ki nai Tafheem
- Dr. Nasir Abbas Nayyar. Seminar Topic: Adbi Theory or Sheriat , International Seminar, Nov 17-19, 2012, Salvation , Delhi held at Auditorium Sahitya Academy Article Topic: Muasir Pakistani Tanqid
- Dr. Nasir Abbas Nayyar. Seminar Topic: Sa'adat Hasan Mato ki Tahreeron men Qaumi Ham Ahangi, Almi Seminar, Nov 22, 2012, All India Urdu Manch, Bangalore, India Article Topic: Manto ki Tahreeron Qaumi Ham Ahngi
- Arifa Iqbal. Seminar Topic: Faiz/Meera Jee Sadi Seminar aik Roza Qoumi Seminar. Article Topic: Kalam-e-Faiz Mutarjama Dr. Mahboob ul Haq. Lahore: Department of Urdu, Oriental College, Punjab University, (10th May 2012).

DEPARTMENT OF IQBAL STUDIES

• Research & Development – An Overview

- Allama Iqbal Research Chair has been entrusted with a Research Project entitleded (Encyclopaedia on Allama Iqbal's art and thought. Two volumes of this comprehensive book have been published and the third volume is in process.
- The Third volume will be consisted on 110 research articles, out of them 80 articles on different topics of Allama Iqbal's art and thought have been written and composed and are ready for publication.
- Dr. Syyed Muhmmad Akram has written 15 research articles for this volume which are ready for press.
- The DAAIRAH-E-MARIF –E-IQBAL (encyclopaedia) containing about 2000 double columned pages will be the first encyclopaedia on Allama Iqbal's art and thought published by the University of the Punjab.

• Publications

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FACULTY OF PHARMACY

UNIVERSITY COLLEGE OF PHARMACY

- **Research & Development – An Overview**

- All teaching faculty in the University College of Pharmacy is involved in Research and Development. This research is in the fields of National priority areas. The faculty is involved in research in the disciplines of Pharmaceutics (formulation design, Clinical Pharmacy, Biopharmaceutics and Pharmacokinetics), Pharm Chemistry (Analytical, Physical and Medicinal chemistry), Pharmacology and Pharmacognosy).

- **Projects (i) Completed**

3 completed (Prof. Dr. Syed Saeed ul Hussain and Prof. Dr. Khalid Hussain), sponsored by University of the Punjab, Lahore, 250000.

- **Publications**

- Amjad Hussain, Manual of Clinical Pharmacy for Pharm D student (4th Edition), Raaz Publishers, Lahore Pakistan
- Nadeem Irfan Bukhari, Biopharmaceutics and Pharmacokinetics – An activity based learning Reprint 2, Raaz Publishers, Lahore Pakistan
- Imran Tariq, Syed Saeed-ul-Hassan, Omer Mateen, Sabiha Karim, Syed Atif Raza & Muhammad Farhan Sohail. Evaluation of Prescription Behavior of Tuberculosis Patients in Comparison with WHO Guidelines Latin American Journal of Pharmacy, 2012
- Saeed ul Hassan, Shahid Rasool, Uzma Niaz, Muhammad Khalil Rehman, Muhammad Yasir Ali, Ghulam Abbas, Nasir Rasool, Muhammad Riaz and Kizar Abbas. Dermatological Potential of

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- H. Khalid, I. Zhari, S. Amirin, A. M. M. S. Amin, L. Abida, H. K. Furqan, H. Amjad. Antiangiogenic activity and bioassay-guided isolation of aqueous extract of *Orthosiphonstamineus*. Journal of the Chinese Chemical Society, 2012, 59, 1137-1143.
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- Komal Riaz, Sana Saleem, Maria Ahmad, Muhammad Islam and Furqan Khurshid Hashmi. Evaluation of effect of compliance with medication, exercise and diet on blood glucose control in diabetic patients. Pakistan Journal of Pharmacy (Suppl), 2012.

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

- The Faculty members presented/participated in/attended the following:-
- AAPS Annual Meeting and Exposition held in Chicago, America on October 14-18, 2012.
- National Conference in collaboration with HEC “People health through quality pharmacy services – Think globally – act locally, Lahore College for Women University, Lahore, May 2012.

- 26th Scientific meeting of Malaysian Society of Pharmacology & Physiology-Translational research for sustainable wellness: from perception to reality. Penang, Malaysia 18-20 May, 2012.
- International Conference on Research Methodology – New trends and integrative approach from bench to bedside. College of Pharmacy, University of the Punjab, Lahore September, 2012
- Animal workshop held on 4 & 5th January at College of Pharmacy Punjab University Lahore 2011.
- Seminar & workshop on Environmental Toxicology & Health held on 8th & 9th March 2011 at Department of Pharmacology & Toxicology University of Veterinary & Animal Sciences Lahore.
- Seminar on dryness of eye held on September 2011 At College of Pharmacy Punjab University Lahore.
- Seminar on Management of diabetes mellitus held on ----18 Nov 2011--- organized by College of Pharmacy Lahore
- Two days training on management of first aid (Red Crescent), held on—4 & 5th June 2011, held at College of Pharmacy Punjab University Lahore.
- One day seminar on drug abuse & misuse held on March 2011 at college of Pharmacy organized by Shaukat Khanum Hospital.
- Seminar on anti- tobacco awareness was held on 23-May 2011 at Shaukat Khanum Hospital.
- International Biennial conference held on 11-12 April 2011 at king Edward medical university Lahore, organized by Pakistan physiological society, paper was presented topic was, effect of cinnamon extract alone & in combination with insulin on blood glucose in Alloxan induced albino rats.
- Sixteenth International conference & exhibition was held on 28th April to 1st May 2011, at Pearl continental Lahore.
- Pharmaceutical policy Pharmaceutical healthcare system implementations. Presented by Dr Zaheer-ud-din Babar on 4th January 2012.
- PPA organized seminar on “Responsibilities of Clinical Pharmacists ” on 7th Jan, 2012 at PPA House 488 G Johar Town, Lahore. The following speakers will deliver lectures on topics mentioned against their names.
- Cancer angiogenesis & nanoparticles one day seminar presented by Dr Sohail from UK, held on on 25th January 2012 at college of pharmacy.
- On day seminar by Dr Qarar from U.K, on Tuesday 31st Jan 2012 , on important factors in drug development.
- National Seminar attended at PCSIR on 23rd May 2012 on Pharmaceutical industry in 21st Century Challenges & Threats.
- National conf in Lahore college university held on 25-26 May 2012.
- Seminar on Drug quality management presented by Razia Sultana Chief pharmacist Saudi hospital. Organized by college of pharmacy Punjab University Lahore. Held on 29 June 2012.

- One day conference to establish guidelines on clinical pharmacy practice in Pakistan on 30th June 2012. Organized by Shaukat Khanum Hospital, Pakistan academy of pharmacist and Punjab pharmacy council Lahore.
- International Conference on Research Methodology: New Trends and Integrative Approach from Bench 2 Bedside" 6th- 8th September 2012.
- Pharmacy scientific symposium and pharmaceutical exhibition 14th January 2012. University of Central Punjab, Lahore.

Workshops, Conferences etc. held at the Department/Institute/Centre/College.

- A national seminar was held at University College of Pharmacy, University of the Punjab entitled "Use of Animals in Science, Ethical & Practical Considerations from January 3 to January 4, 2011.
- International Conference on Research Methodology - New trends and integrative approach from bench to bedside. September, 2012

Invited lecturers delivered outside the Department/Institute/Centre/ College:

- Nadeem Irfan Bukhari. Use of Statistics in Dosage form Development to the post graduate students of qualified person (QP) course in Pharmaceutical Statistics module at School of Pharmacy, University College of London, London UK. July 9, 2012
- Nadeem Irfan Bukhari. Statistics in Pharmacy to the post graduate student of qualified person (QP) course in Pharmaceutical Statistics module at School of Pharmacy, University College of London, London UK. July 9, 2012.
- Nadeem Irfan Bukhari. Advance pharmaceutical formulation approaches (DoE and ANN) in Technical Session II of National seminar on "Pharmaceutical industry in 21st century; challenges & threats." organized by PCSIR, Lahore, May 03, 2012
- Nadeem Irfan Bukhari. Advance Pharmaceutical formulation approaches at "Pharmacy Day" organized by School of Pharmacy, The University of Faisalabad. 12th April, 2012.

• **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 in different areas of global villages in the capacities of co-supervisors for awarding Ph.D. Degrees

• **Foreign Linkages**

- A faculty member has collaboration with DeMont Fort University, UK and Otago University, New Zealand as external supervisor of PhD students.

FACULTY OF SCIENCES

CENTRE FOR EXCELLENCE IN SOLID STATE PHYSICS

• Projects (ii) Newly Launched

Sr. No.	Duration	Sponsoring Agency	Funding
1.	4 Years	Higher Education Commission	38.533 Million
2.	6 Months	Higher Education Commission	0.500 Million
3.	6 Months	Higher Education Commission	0.500 Million

• Publications

- S. Naseem, K. Siraj, M. Khaleeq-ur-Rahman, M.S. Rafique, M.Z. Munawar and S. Riaz. Pulsed laser deposition and characterization of multilayer metal-carbon thin films, Applied Surface Science, 257, 2011, 6445
- S. Naseem, Z.N. Kayani and S. Riaz, Preparation of BiFeO₃ films by Sol-Gel technique and their characterization", Sci. Int., 23, 2011, 255
- S. Naseem, S. Anjum, H.M. Tahir, K. Hussain, M. Khaleeq-ur-Rahman and MS. Rafique, Structural and magnetic properties of cadmium substituted Ni-Al ferrites", Physica B, 406, 2011, 2555
- S. Naseem, S. Riaz and Y.B. Xu Room temperature ferromagnetism in sol-gel deposited undoped ZnO films J. Sol. Gel. Sci. Technol., 59, 2011, 584
- S. Naseem, F. Nasim, A. Ali and A.S. Bhatti Temperature dependent tuning of the flat band voltages of TiO₂/Si interfaces J. Appl. Phys., 110, 2011, 114517
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- I.M. Ghauri, N. Afzal & Y. Idrees, A study of microstructure and tensile properties of proton beam irradiated Al-Mg-Si alloy Int. Mod. Phys. B, 25 Issue 12, 2011, 1645-1652.
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- M. Haneef, I. Ahmad, A. Ahmed, A. Rahman, Investigation of spherical effects on the photodetached electron-spectra, *J. Phys. B: At. Mol. Opt. Phys.* 44, 2011, 195004
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- **Conferences, Seminars and Workshops etc.**
 - S. Naseem, A. Safeen, K. Safeen and S. Riaz, Structural Magnetic and Optical Properties of Undoped Co-Evaporated ZnO Thin Films, Presented at University of Peshawar, Peshawar, 2011
 - S. Riaz, M. Khalid, S. Naseem, Modeling and simulation of 1KV/5 A normally-off 4H-SiC VJFET INMIC 2011, Dec., 22-24, 2011, Sir Syed University of Engineering and Technology, Karachi IEEE, 2011
 - S. Riaz, S. Hamid and S. Naseem, Synthesis and Characterization of ZrO₂ Nanoparticles for Buio-Medical Applications, Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad. 19, 2012
 - A. Ahmad, A mathematical model to investigate the photo-detachment of a non-linear triatomic negative anion, NUST Conf. on Applications and Methods of Physics 2011, November 21-22 2011 held at National University of Science and Technology (NUST) under Centre for Advanced Mathematics and Physics (CAMP) Sector H-12, Islamabad, Pakistan.
 - M. Saleem, S.A. Siddiqi, S. Atiq, S.M. Ramay, and S. Naseem, Effect of thermal treatment on structural, electrical and magnetic properties of sol-gel synthesized $\text{Zn}_{0.95}\text{Ni}_{0.05}\text{O}$ nanocrystallites. Presented at "Pakistan Institute of Physics International Conference (PIPIC-2011)", organized by University of Engineering and Technology (UET) Lahore. Pakistan March 28-30, 2011.
 - S. Atiq, S.A. Siddiqi, M. Saleem and S.M. Ramay, Enhanced magnetic moment of epitaxial γ -Fe₄N films at low temperature. Presented at "The 15th International Symposium on the Physics Semiconductors and its Applications-IPSPA-2011" held at Jeju, South Korea, July 5-8, 2011.

- M. Saleem, S.A. Siddiqi, S. Atiq and S. Naseem, Structural and magnetic studies of Ni doped ZnO synthesized with auto-combustion and co-precipitation techniques, Presented at “The 15th International Symposium on the Physics Semiconductors and its Applications-IPSA-2011” held at Jeju, South Korea, July 5-8, 2011.
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- T. Hussain, S. A. Siddiqi, S. Atiq, S. Naseem, M.S. Anwar and M.S. Awan. Synthesis and characterization of Sr-doped BiFeO₃ nanoparticles by auto-combustion technique. Presented at International Conference on Nanomaterials and Nanoethics ICNN-2011, December 1-3, 2011, COMSATS IIT, Lahore, Pakistan.
- S. Naseem, K. Khan, G. Husnain, I. Ahmed and A. Farid, Ion-irradiation induced damage of AlN thin films. Presented at International Scientific Spring, NCP, Islamabad, March 5-9, 2012
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- S. Riaz, S. Farooq and S. Naseem Thermally Evaporated Fe-O_x Thin Films for use in MTJs – Structural, Magnetic and Electrical Properties Proc. The 2012 Intl. Conf. on Adv. In Mater. Res. (ICAMR), August 26-29, 2012, Seoul, Korea

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- S. Naseem, A. Farid, G. Husnain, and I. Ahmed and K. Khan, Structural and Morphological Study of Ni-Ions Irradiated Epitaxial GaN Thin Films, 37th International Nathiagali Summer College (INSC-2012), Jointly Organized by Pakistan Atomic Energy Commission (PAEC) & National Centre for Physics (NCP) Islamabad, Pakistan, July 02-07, 2012

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- S. Riaz, N. Abbas, CF. Dee, S. Naseem, M.H. Rafique, Y. Long, I. Ahmad, Effects for the different type of ion beam irradiation on the ZnO nanowires. Poster presentation in
- International Scientific Spring (ISS), jointly organized by National center for Physics (NCP) Islamabad, and International Center for Theoretical Physics (ICTP), Italy at NCP Islamabad.
- S. Riaz, S. Hamid, S. Naseem, Synthesis and Characterization of ZrO₂ Nanoparticles for Bio-Medical Applications. Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad, May 19, 2012
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- S. Riaz, M. Azam, S. S. Ali, Y.A. Durrani, S. Naseem, Power Macro Modeling for CMOS Inverter of 0.12μm Technology. Presented at International Conference on Advanced Materials and Manufacturing Science(ICAMMS) December 21-21, 2012, Beijing, China
- S. Riaz, S. Naseem, A. Hussain, D. Ghayas, Noise Optimization of Low Power CMOS Charge Amplifier Using Simulation Environment of EldoTM. Presented at International Conference on Advanced Materials and Manufacturing Science(ICAMMS) December 21-21, 2012, Beijing, China.
- S. Riaz, S. Hamid and S. Naseem, Fabrication and Characterization of ZrO₂ Nanoparticles, 6th Vacuum and Surface Sciences Conf. of Asia and Australia, October 9-13, 2012 at Pak. China Friendship Centre, Islamabad, Pakistan.
- S. Riaz, S. Hamid and S. Naseem, Effect of Temperature on the Threshold Voltage of AlGaIn/GaN VHFET on GaN Substrate. 6th Vacuum and Surface Sciences Conf. of Asia and Australia, October 9-13, 2012 at Pak. China Friendship Centre, Islamabad, Pakistan.

- A. Ahmed, Kohn-Sham Equations and their numerical solutions at 2nd International Workshop on Materials Modeling and Simulations, May 21-24, 2012, held at Department of Physics, University of Malakand.
- A. Ahmed, Bakhtiar ul Haq, R. Ahmed, A. Shaari and M. Zarshenas, Structural and Electronic Properties of Ni-Doped ZnO in Zinc-blende Phase: A DFT Investigations. The 2nd International Conference on Fundamental and Applied Sciences (ICFAS 2012) Kuala Lumpur, 12-14 June 2012.
- A. Ahmed, Photo-detachment microscopy of the hydrogen negative ion near a dielectric thin film, International Conference on Condensed Matter Physics and Engineering, 27-29 Dec. 2012, held at Department of Physics, Bahauddin Zakria University Multan.
- S. Atiq, I. Ghafoor, S.A. Siddiqi and S. Naseem, Investigation of structural, electrical and magnetic behavior of Pb-doped $\text{La}_{0.1}\text{Bi}_{0.90}\text{FeO}_3$ Multiferroics. Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan
- S. Atiq, M. Saleem, S.A. Siddiqi and S. Naseem, Origin of room temperature ferromagnetism in ZnO based diluted magnetic semiconductor materials. Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan.
- S. Atiq, M. Javid and S. Naseem. Room temperature ferromagnetic behavior in NiO nanoparticles. Presented at International Scientific Spring-2012 (ISS-2012), March 5-9, 2012, held at National Centre for Physics (NCP), Islamabad, Pakistan.
- S. Atiq, M. Javid and S. Naseem. Synthesis, structural and magnetic properties of NiO nanocrystallites. Presented at National Symposium on Frontiers of Nanotechnology, May 19, 2012, held at National University of Science and Technology (NUST), Islamabad, Pakistan.
- S. Atiq, I. Ghafoor, S.A. Siddiqi, S. Riaz and S. Naseem. Structural, Electrical and Magnetic Investigations of Pb-doped $\text{La}_{0.1}\text{Bi}_{0.90}\text{FeO}_3$ Multiferroics. Presented at Advances in Civil, Environmental and Materials Research (ACEM'12) held at COEX in Seoul, South Korea from 26-30th August 2012
- S. Atiq, M. Javid and S. Naseem. Synthesis and Characterization of Structural, Electrical and Magnetic Properties of NiO Nanocrystallites. Presented at Advances in Civil, Environmental and Materials Research (ACEM'12) held at COEX in Seoul, South Korea from 26-30th August 2012.
- S. Atiq, T. Hussain, S.A. Siddiqi, S. Riaz and S. Naseem. Induced Modifications in the Structural, Electrical and Magnetic Properties of Sr-doped BiFeO_3 Multiferroics. Presented at Advances in Civil, Environmental and Materials Research (ACEM'12) held at COEX in Seoul, South Korea from 26-30th August 2012.
- S. Atiq, U. Ghaznavi, S. A. Siddiqi and S. Naseem. Characterization of Polycrystalline Zinc Ferrite (ZnFe_2O_4) by XRD, SEM, IS and Resistivity Measurements. Presented at Advances in

Civil, Environmental and Materials Research (ACEM'12) held at COEX in Seoul, South Korea from 26-30th August 2012.

- S. Atiq, Zaib-un-Nisa, S.A. Siddiqi, S. Riaz and S. Naseem. Effect of Cu Contents on the Structural, Electrical and Magnetic Properties of Mn- Ferrites. Presented at Advances in Civil, Environmental and Materials Research (ACEM'12) held at COEX in Seoul, South Korea from 26-30th August 2012.
- S. Atiq, F. Majid, S. Riaz, M.I. Akram and S. Naseem. Preparation and Characterization of Electrodeposited Aluminum Oxide Thin Films. Presented at 2012 International Conference on Advanced Materials and Manufacturing Science (ICAMMS 2012), Beijing, China, December 20-21, 2012.
- S. Atiq, Z. Ullah, M. Saleem and S. Naseem. Influence of A-site Pb substitution on Structural, Electrical and Magnetic Properties of Sr-Hexaferrites. Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012
- S. Atiq, M. Saleem, S.A. Siddiqi, S.M. Ramay, and S. Naseem. Origin of Ferromagnetism in TMs doped ZnO Based DMS Materials. Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012

RESEARCH COLLABORATION

• Indigenous

- University of Engineering & Technology, Lahore
- Lahore College for Women University, Lahore
- Islamia University Bahawalpur, Bahawalpur
- Bahauddin Zakaria University, Multan

• Foreign Linkages

- State Key Laboratory of Magnetism, Institute of Physics, Chinese Academy of Sciences, Beijing, China.

CENTRE FOR HIGH ENERGY PHYSICS

• Publications

- Imran Jamil and Bilal Masud, Eur. Phys. J. A (Springer), 47: 33, year 2011. Title: Dynamical effects of QCD in $q^2\bar{q}^2$ systems.
- Nosheen Akbar and Bilal Masud, Eur. Phys. J. A (Springer), 48: 25, year 2012. Title: Dynamical Implications of Gluonic Excitations in Meson-Meson Systems.
- Nosheen Akbar, Bilal Masud and Saba Noor, Eur. Phys. J. A (Springer), 47: 124, year 2011. Title: Wave Function Based Characteristics of Hybrid Mesons.
- Faisal Akram and M.A.K Lodhi, "B_c Absorption Cross sections by Nucleons", Nucl. Phys. A 877, 95 (2012).

- Faisal Akram and M.A.K Lodhi, “ B_c Absorption Cross Sections by ρ Mesons”, Phys. Rev. C 84, 064912 (2011).
- M.A.K Lodhi, Faisal Akram, Shaheen Irfan, “Hadronic Absorption Cross Sections of B_c ”, Phys. Rev. C 84, 034901 (2011).

Publications List of Dr. Haris Rashid, Dr. Talab Hussain, Dr. Abrar Ahmad Zafar and Dr. Qadeer Afzal:

- Experimental study of ψ' decays to $K^+K^-\pi^0$ and $K^+K^-\eta$, BESIII Collaboration, Phys. Rev. D 86, 072011 – Published 26 October 2012
- Evidence for the Direct Two-Photon Transition from $\psi(3686)$ to J/ψ , BESIII Collaboration, Phys. Rev. Lett. 109, 172002 – Published 24 October 2012
- Observation of $e^+e^- \rightarrow \eta J/\psi$ at center-of-mass energy $\sqrt{s}=4.009\text{GeV}$, BESIII Collaboration, Phys. Rev. D 86, 071101 – Published 1 October 2012
- Measurement of χ_{cJ} decaying into π^- and $\pi^-\pi^0$, BESIII Collaboration, Phys. Rev. D 86, 052011 – Published 26 September 2012
- Observation of χ_{cJ} decays to $\pi^+\pi^-$, BESIII Collaboration, Phys. Rev. D 86, 052004 – Published 13 September 2012
- Study of $J/\psi \rightarrow$ and $J/\psi \rightarrow$, BESIII Collaboration, Phys. Rev. D 86, 032014 – Published 31 August 2012
- First observation of the isospin violating decay $J/\psi \rightarrow$ $^0+c.c.$, BESIII Collaboration, Phys. Rev. D 86, 032008 – Published 15 August 2012
- First Observation of the M1 Transition $\psi(3686) \rightarrow \gamma \eta_c(2S)$, BESIII Collaboration, Phys. Rev. Lett. 109, 042003 – Published 24 July 2012
- Two-photon widths of the $\chi_{c0,2}$ states and helicity analysis for $\chi_{c2} \rightarrow \gamma\gamma$, BESIII Collaboration, Phys. Rev. D 85, 112008 – Published 20 June 2012.
- Measurements of the Mass and Width of the η_c Using the Decay $\psi(3686) \rightarrow \gamma \eta_c$, BESIII Collaboration, Phys. Rev. Lett. 108, 222002 – Published 31 May 2012
- Search for a light exotic particle in J/ψ radiative decays, BESIII Collaboration, Phys. Rev. D 85, 092012 – Published 18 May 2012
- First Observation of $\eta(1405)$ Decays into $f_0(980)\pi^0$, BESIII Collaboration, Phys. Rev. Lett. 108, 182001 – Published 3 May 2012
- Spin-Parity Analysis of Mass Threshold Structure in J/ψ and $\psi(3686)$, Radiative Decays BESIII Collaboration, Phys. Rev. Lett. 108, 112003 – Published 16 March 2012.
- Search for η_c' decays into vector meson pairs, BESIII Collaboration, Phys. Rev. D 84, 091102 – Published 29 November 2011
- Higher-order multipole amplitude measurement in $\psi' \rightarrow \gamma \chi_{c2}$, BESIII Collaboration, Phys. Rev. D 84, 092006 – Published 22 November 2011

- $\eta\pi^+\pi^-$ Resonant Structure around $1.8 \text{ GeV}/c^2$ and $\eta(1405)$ in $J/\psi \rightarrow \omega\eta\pi^+\pi^-$, BESIII Collaboration, Phys. Rev. Lett. 107, 182001 – Published 25 October 2011
- **Conferences, Seminars and Workshops etc.**
 - A meeting of Pakistan Vacuum Society held on 15-02-2012 at CHEP and Prof. Dr. Haris Rashid was elected as president of the Punjab Chapter.
 - A seminar on the occasion of “Seerat un Nabi (PBUH)” was organized at CHEP on 16.02.2012. Dr. Iftikhar Ahmad Ch. Student Advisor of Punjab University delivered a lecture in this seminar.
 - Dr. Aleksander Stefanavic delivered a lecture at CHEP on 08.05.2012 on “Applications of x-ray Diffractometer (XRD) for Research Purposes”.
 - Dr. Shahid Rafique, Chairman of Physics Department, UET delivered a lecture on 15.05.2012. The topic was “Laser and its Applications”.
 - A meeting of Pakistan Vacuum Society held on 15-05-2012 at CHEP.
 - Dr. Adnan Bashir delivered a series of lectures on the Schwinger-Dyson equation and its application in December 2011 and January 2012.
 - Dr. Bilal Masud organized a lecture on 11.06.2012 at CHEP, Dr. Farida Tahir delivered a lecture on the topic of “The effect of non-standard interaction in neutrino oscillation.”
 - Dr. Bilal Masud attended a seminar on “Quran and Modernity”, and delivered a lecture on “Quran and Modernity: Challenges or Roles”, during 14-15 April, 2012 in Mansehra, KPK.
 - Dr. Bilal Masud, Dr. Abrar Ahmad Zafar and Dr. Qadeer Afzal attended the 4th Winter Meeting on Particles and Fields, in LUMS, Lahore during 27-28 January 2012. Dr. Bilal Masud delivered a lecture on “Physics beyond the quark model”.
 - Dr. Munawar Iqbal, Dr. Ayub Fridi and Qadeer Afzal attended the Scientific Spring meeting held at NCP, Islamabad during 5-9 March 2012.
 - An Electronics Project Exhibition was arranged in CHEP on 12.07.2012.
 - A Lecture was arranged on the topic of “Dengue Prevention”. The lecture held on 26.08.2012.
 - Dr. Babar Qureshi of LUMS delivered a lecture in June 2012 on the recent Nobel prize discovery of accelerating universe.
 - Dr. Talab Hussain attended Beijing Spectrometer III (BES III) Collaboration meeting and presented two papers from 9-13 Jun, 2012 at Soochow University, China.
 - Dr. Abrar Ahmad Zafar attended BES III Collaboration meeting from Nov 30 to Dec 4, 2011 at Beijing, China.
 - Dr. Abrar Ahmad Zafar performed shift duties at BES III detector site from 12- 25 Dec, 2011.

RESEARCH COLLABORATION

● Foreign Linkages

- Beijing Spectrometer III (BESIII) Collaboration: CHEP faculty members: Prof. Dr. Haris Rashid, Dr. Abrar Ahmed Zafar, Dr. Qadeer Afzal Malik and Dr. Talab Hussain are the BESIII members. They continued performing collaborative research in this period.

- Dr. Bilal Masud continued collaborative research with the following researchers abroad:
 - 1-Dr. Eric Swanson, Pittsburg University, USA.
 - 2-Dr. Adnan Bashir, Universidad Michoacana, Morelia, Mexico.

CENTRE FOR UNDERGRADUATE STUDIES

• Research & Development – An Overview

- Center has produced more than 20 research articles of good impact those were published in journals of national and international repute. Book chapters (for international books) were also published.

• Projects (i) Completed

Name of Researcher	Sponsoring Agency	Financial Support	Research Area
Dr. Najam ul Sehar	University of the Punjab	1,50,000	Botany
Dr. Najam ul Sehar	University of the Punjab	2,00,000	Botany
Sadaf Aslam	University of the Punjab	1,25,000	Zoology
Humaira Tariq	University of the Punjab	1,25,000	English
Bushra Nisar Khan	University of the Punjab	1,25,000	Zoology
Umer Shafique	University of the Punjab	1,25,000	Chemistry

(ii) Newly Launched

Name of Researcher	Sponsoring Agency	Financial Support	Research Area
Dr. Najam ul Sehar	University of the Punjab	1,50,000	Botany
Ammara Dar	University of the Punjab	1,25,000	Chemistry
Sadaf Aslam	University of the Punjab	1,25,000	Zoology
Bushra Nisar Khan	University of the Punjab	1,25,000	Zoology
Humaira Tariq	University of the Punjab	1,25,000	English

• Publications

Author	Title	Journal	Volume	Page
Dr.Najam ul Sehar	Some new rust fungi (Uredinales) from fairy meadows, Northern areas, Pakistan.	Journal of yeast and fungal research	3(5)	65-73
Dr.Najam ul Sehar	New records of Puccinia species on Poaceae from Pakistan.	Mycotaxon	120	407-413
Dr.Najam ul Sehar	Three new Caeoma species on Rosa spp. From Pakistan	Mycotaxon	120	239-246
Muhammad Younis	Ternary three point non stationary subdivision scheme	Research journal of applied sciences engineering and technology	4(3)	1875-1882
Ammara Dar/Umer Shafique	Forced migration of soluble and suspended materials by freezing front in aqueous systems	Journal of hydro-environment research	6(3)	221-226

Author	Title	Journal	Volume	Page
Bushra Nisar Khan	Serum chemistry variables of Bengal tigers(<i>Panthera tigris tigris</i>) kept in various forms of captivity	Pakistan veterinary Journal	32	283-285
H.M Asim Zafar	Certain H- subsets of $Q(5m)/Q$ under the action of $H=<x,y:x^2+y^4=1>$	Pakistan Journal of Sciences	64(1)	67-74
Muhammad Younis	A new family of binary 5-point approximating non-stationary subdivision scheme	Archives des sciences	65(5)	231-245
Umer Shafique	Removal of formaldehyde from aqueous solution by adsorption on kaolin and Bentonite: A comparative study	Turkish Journal of Engineering and Environmental Sciences	36(2)	263-270
Umer Shafique	Adsorptive removal of Congo Red and Sunset Yellow dyes from water systems by Lady Finger stem,	Journal of the Chemical Society of Pakistan [Pakistan	34(5)	241-247
Umer Shafique	Forced migration of soluble and suspended materials by freezing front in aqueous systems	Journal of Hydro environment research	6(3)	221-226
Umer Shafique	Toxic and nutritive elements analysis of commercially available tea samples of Pakistan by ICP-OES employing microwave digestion	Electronic Journal of Environmental, Agricultural and Food Chemistry (Spain)	11(5)	459-468
Umer Shafique	Removal of arsenic from water using pine leaves,	Journal of the Taiwan Institute of Chemical Engineering	43(2)	256-263
Umer Shafique	Micro-determination of arsenic in aqueous samples by image scanning and computational quantification,	Analytical methods	4(2)	242-246
Umer Shafique	Comparative removal of congo red dye from water by adsorption on <i>Grewia asiatica</i> leaves, <i>Raphanus sativus</i> peels and activated charcoal,	Journal of the Chemical Society of Pakistan	34(1)	112-119
Umer Shafique	Comparative thermal and catalytic recycling of low density polyethylene into diesel-like oil using different commercial catalysts	Electronic Journal of environment, agriculture and food chemistry	11(2)	96-105
Umer Shafique	Microwave assisted synthesis of esterquat for fabric softening applications	Journal of the Chemical Society of Pakistan	34(2)	415-418
Umer Shafique	Lawrencepur sand, a highly efficient absorbent for the removal of Cr(VI) from waste water	Journal of the chemical society of Pakistan	34(1)	81-88

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

- **Research & Development – An Overview**

- The projects in the CEES during the year 2011-2012 were on removal of heavy metals and toxic organic from waste water and textile effluents using phytoremediation, biosorption and other techniques. One particular group is carrying out research in Solid Waste Management and monitoring using GIS and RS techniques others include management of waste materials and total recycling of waste materials. One group is dealing with Environmental Management Systems for industry, hospitals and the building sector. The use of organisms in environmental biotechnology is also under way.

- **Projects (i) Completed**

- Pole of some growth promoters in enhancement of metal uptake and stress alleviation in selected plants grown in tannery waste contaminated soil. Punjab University Lahore. 2011-2012 (Dr. Fiedaus-e-Bareen)
- Investigating declining ground water, resources of Lahore City of about 1 Crore Pakistani using modeling Technique (Dr. Iftikahr Ahmed)
- Estimation of amount of chromium in different organs of polity farm chicken (Dr. Nadia Jamil)
- Floral baseline assessment of vegetation of 1000 kanals of Iskendrabad, Mianwali. (Funded by WWF Pakistan) (Ms Mariyam Zameer)
- Haematological features of the workers exposed to Gasoline vapours at commercial petrol stations in Lahore. (With the collaboration of UHS, Lahore) (Ms Mariyam Zameer)

- **(ii) Newly Launched**

- Estimation of water sustainability in Islamabad for long-term survival using hydrologic Techniques (Dr. Iftikahr Ahmed)
- Estimation of residual amount of oxygen in bovine's milk samples and blood serum of human females (Dr. Nadia Jamil)
- Molecular characterization of heavy metal tolerant Bacteria from Industrial Effluents and their Health Impacts. (Funded by University of the Punjab, Lahore. (Ms Mariyam Zameer)

- **Publications**

- Bareen, F., Shafiq, M. and Jamil, S. 2012. Role of plant growth regulators and a saprobic fungus in enhancement of metal phytoextraction potential and stress alleviation in pearl millet. Journal of Hazardous Materials. 237-238: 186-193 (I.F. 4.173)
- M. Nawaz Ch., Muhammad Naeem, Salama Rehman, Rana Amjad, (2012) One Pot Synthesis of Potentially Biologically Active Novel 4- Thiazolidinone Derivatives, Asian Journal of Chemistry, Vol.24 No.10 4317-4323
- M. Nawaz Ch., Saima Gulzar, Burg Jean-Pierre, Chemical and Mineralogical Characterization of Old Mortars from Jahangir Tomb, Lahore-Pakistan, Asian Journal of Chemistry, Vol.25 No.1 133-138

- M. Nawaz Ch., Saima Gulzar, Burg Jean-Pierre, Saeed S.A., Characterization of Mughal Bricks from Jahangir Tomb, Lahore-Pakistan, Asian Journal of Chemistry. Vol.25 No.1
- M. Nawaz Ch., Scavengers and their role in the recycling of Waste in Southwestern Lahore. Resources, Conservation and Recycling, Vol 58, (Impact Factor: 1.795)
- M. Nawaz Ch., Study of $Sb_{28.47}Sn_{11.22}S_{60.32}$ Compound as Thin Film for Photovoltaic Applications, Chalcogenide Letters, Vol 9, (Impact Factor: 0.835)
- M. Nawaz Ch., One Pot Synthesis of Potentially Biologically Active Novel 4 Thiazolidinone Derivatives, Asian Journal of Chemistry, Vol 24, (Impact Factor: 0.201)
- Riaz Ahmed Sheikh, DEM and GIS based Hypsonetric analysis to investigate Neotectonic influence on Hazara Kashmir Syntaxis, Pakistan Journal of Science Vol. 64 No.3
- Riaz Ahmad Sheikh, Geological and Hydrocarbon potential of neo-proterozoic-camlunian Basin in Asia Geological society of London, Sp. Pub Series # 366. 2012, Geological Society of London (UK), Vol 366.
- Iftikhar Ahmad, 2011 Hydrology of mountainous areas in the upper Indus Basin, Northern Pakistan with the perspective of climate change, Environmental Monitoring and Assessment, Doi 10.1007/s10661-011-2337-7 (Impact Factor: 1.463)
- Iftikhar Ahmad, 2012 Flood frequencies in Soan Valley, Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences, 64(1)
- Iftikhar Ahmad, 2012 Reservoir quality monitoring in Rawal Lake using Geoinformatics, Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences 64(1).
- Iftikhar Ahmad, 2011 Slope stability analysis in hard rocks and prediction of landslide along Khewra Choha Saiden Shah road, salt range Pakistan, Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences 63(4).
- Iftikhar Ahmad, 2012 Flood frequency analysis of homogeneous regions of Jhelum River Basin, International Journal of Water Resources and Environmental Engineering 4(5)
- Iftikhar Ahmad, 2012 Groundwater quality profile of Kala Shah Kaku, Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences, 64(2),
- Iftikhar Ahmad, 2012 Simulated Transport of Jet Fuel Leaking into ground water, Sindh, Pakistan, Journal of Wetland Biodiversity, 2,
- Nadia Jamil, Naveed Ahsan and Umer Shafique, 2012 Laurencepur Sand – A highly Efficient adsorbent for the removal of Cr (VI) from waste water. Journal of Chemical Society of Pakistan Volume 34, No. 1
- Umer Shafique, Aamir Ijaz, M. Salman, Waheed-uz-Zaman, Nadia Jamil, Rabia Rehman, Amna Javaid. 2012 Removal of arremic from Water using pine leaves. Journal of Taiwan Institute of Chemical Engineers 43 256-263

- Umer Shafique, Jamil Anwar, Waheed-uz-Zaman, Rabia Rehman, M. Salman, Amara Dar, Nadia Jamil. 2012 Forced Migration of soluble and Suspended materials by freezing front in aqueous system Journal of Hydro-Environment research Volume 6 Issue
- Muhammad Khalid Mukhtar Muhammad Irfan, Hafiz Muhammad Tahir, Shafaat Yar Khan, Khawaja Raees Ahmad, Abdul Qadir and Muhammad Arshad, 2012. Species Composition and Population Dynamics of Spiders Fauna of Trifolium and Brassica Fields. Pakistan Journal of Zoology 44: 1261-1267 (Impact Factor: 0.338)
- Muhammad Khalid Mukhtar, Shafaat Yar Khan, Sidra Jabeen, Hafiz Muhammad Tahir, Abdul Qadir, Khawaja Raees Ahmad, Abida Butt and Muhammad Arshad, 2012. A Preliminary Checklist of the Spider Fauna of Sargodha (Punjab), Pakistan. Pakistan Journal of Zoology (Impact Factor: 0.338)
- Durr-e-Shahwar, Tehseen Aman, Asrar Ahmad Kazi, Almas Hamid, Nikhat Khan, 2012 Determination of Two Analgesics (Acetyl Salicylic Acid and Acetaminophen) by a Single Chromogenic Reagent, International Journal of Pharmaceutical Sciences Review and Research, Vol. 12
- Durr-e-Shahwar, Sumaira Yousaf, Abdullah Yasar 2012, Solar Assisted Photo Fenton for Cost Effective Degradation of Textile Effluents in Comparison to AOPS, Global NEST Journal
- Nasir Mahmood, Sidra Allah Ditta, Mariyam Zameer, 2011 Biochemical Screening Of Different Local Fungi for Their Comparative Antibacterial Potential. IJAVMS. 5(3): 322-326
- **Books**
 - Bareen, F., 2012 Chelate assisted phytoextraction in oilseed Brassicas. In: Anjum N.A., Ahmad I., Pereira M.E., Durate A.C., Umar S., Khan N.A. (Eds.) The Plant Family Brassicaceae: Contribution Towards Phytoremediation. Environmental Pollution Book Series, Vol. No. 21, Springer, Dordrecht, The Netherlands. 289-312pp.
- **Conferences, Seminars and Workshops etc.**

Conferences

 - Shafiq M. presented a poster "Sustainability Perspective of Rice Straw Compost in Rice-Wheat system" (Shafiq M. and Bareen, F.) in 27th International Symposium on Frontiers in Life Sciences University of Cornell, Ithaca, NY, USA April 2-3, 2012
 - Ayaz S. presented a paper orally "Multivariate analysis of heavy metal contamination in vegetables and fruits in the vicinity of some industrial areas of the Punjab" (Ayaz, S and Bareen, F. 2012) in International Symposium on Biotechnology and Other Omics in Vegetable Science (29 April, - 02 May 2012) held in Antalya-Turkey.
 - Shafiq M. presented the paper "Effects of Rice Straw Compost on Phyto remediation – Repercussions Over Time" (Shafiq M. and Bareen F. 2012) in 27th International Conference on Solid Waste Technology and Management Philadelphia, PA USA March 11-14, 2012.

- Dr. Iftikhar Ahmad attended an International workshop on “Accuracy and reliability of flood forecasting models using remote sensing technologies for mapping, rainfall, hydrological characteristics and floodplains” organized by UNESCO, JICA and PMD at Hotel Avari, Lahore, Pakistan, 17-18 July 2012.
- Seham Anwar, Naeem Shahid Bhatti, Abdul Qadir, Nadia Jamil and Safder Ali Anwar, 32nd Pakistan Congress of Zoology Diversity and Distribution of Earthworms in Urban areas of Lahore Pakistan.
- Nadia Naveed attended 2nd International Conference on Energy Environment & Sustainable Development MUET Hanshoro Pakistan Feb 27-29, 2012 Contribution of Raiwind Area Thermal Pucier plants in Air Quality of Lahore city.
- Sabir, A.M., Akhter, M., Haider, I., and A. Qadir, presented Khapra Beetle: A Menace for Rice Export. PC-26. 32nd Pakistan Congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore (Without Proceeding).
- Sabir, A.M., A.Qadir, Suhail, A., Rafi, M. A. and M. Asghar, 2012. Effect of weather on foraging flights of bumblebees (Apidae: Hymenoptera) in Northern, Pakistan ent-21. 32nd Pakistan congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore. (Without proceeding).
- Anwar, S. A. and A. Qadir presented “Losses caused by plant-parasitic nematodes on vegetable crops”. 32nd Pakistan congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore. (Without proceeding).
- Wajid A., A. Qadir, A. Feroze and M. H. Ali presented “Impacts of urbanization on diversity and distribution of avifauna in Lahore City”, Pakistan fewfm-101. 32nd Pakistan congress of zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore (Without proceeding).
- Anwar, S., N. S. Bhatti, A. Qadir, N. Jamil and S. A. Anwar, presented “Diversity and distribution of earthworms in urban areas of Lahore”, Pakistan. Fewfm-103. 32nd Pakistan congress of zoology (International Congress) march 6 – 8, 2012 held at GC University, Lahore (Without proceeding).
- Asghar, M., A. S. Qureshi, F. A. Chaudhry, A. Ali, M.Ahmad, A. Qadir, A. Abbas, M. F. A. Malik and Z. Saqib, presented “ Effects of gamma (γ) irradiation on Hydrocyanic Acid contents in sudan grass (*Sorghum vulgare* var, Sudanese)”. PPBG 34, 12th National and 3rd International Conference of Botany Septemebr 1st to 3rd , 2012 Quaid-e-Azam University, Islamabad, Pakistan (Without proceeding).
- Anwar, S. A. A. Qadir and Z. Ullah presented “Effect of Trans-Boundary Water Exploitation, Diversion, and Climate Change on Aquatic Biodiversity of Pakistan. Adapting to Change: Fulbrighters” Perspectives on South and Central Asian Societies SCA Regional Fulbright Alumni Conference, April 27-29, 2012. Kathmandu, Nepal (With Proceeding)

- Qadir, A., NS; Bhatti, NS; Ali, H; Suchentrunk, F; Anwar, S. presented “Accumulation of chromium, lead and cadmium in *Lepus nigricollis* distributed in Punjab, Pakistan”. Source: .-4th World Lagomorph Conference; JULY 23-27, 2012; Vienna, Austria. Boku-Reports on wildlife research and game management. 20: 101-10 (With proceeding).
- Qadir, A. attended “Threat to Biodiversity on local, regional and global scale (I)”, Master training for Environmental Auditors, Venue Auditor General Directorate, Lahore (Resource Person).
- Qadir, A. attended “Threat to Biodiversity on local, regional and global scale (II)”, Master training for Environmental Auditors, Venue Auditor General Directorate, Lahore (Resource Person).
- Qadir, A. attended Faculty Orientation Program (4 days workshop), Department of Administrative Sciences, PU.
- Qadir, A. attended National seminar Use of Isotope technique in assessment of water quality and movement of pollutants 17-19 Sept. 2012 PINSTECH, Islamabad.

Seminars:

World Environment Day 5th June, 2012

- The World Environment Day was celebrated by the CEES in collaboration with the Punjab Forest Dept. on June 5, 2012. A one day seminar was organized with speakers both from the Punjab Forest Department as well as from the College of Earth and Environmental Sciences.

World Tourism Day 27th September, 2012

- The World Tourism Day was celebrated by the CEES in the form of a one day seminar on September 27, 2012. Eminent people from the Tourism Industry delivered the seminar.

RESEARCH COLLABORATION

• Indigenous

- WWF PAKISTAN
- AGRITECH Iskandrabad
- ANA ARSH Pakistan NGO.
- CAMB Lahore, Pakistan
- UHS, Lahore, Pakistan.
- KTWMA, Kasur, Pakistan
- Soil Microbiology Division, University of Cornell, New York, Ithaca, USA.

• Foreign Linkages

- Cornell University

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

• 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**

- Chand, S. Kamal, S. and Ali, I. (2012). Modelling and volatility analysis of share prices using ARCH and GARCH models. World Applied Sciences Journal. 19, (2), 77-82.
- Chand, S. (2012). On tuning parameter selection of lasso-type methods-A Monte Carlo study. IEEE Proceedings, 120-129.
- Chand, S. and Aftab, N. (2012). On Finite Sample Distribution of Quasi Test Statistic Based on Heteroskedastic Consistent Covariance Matrix Estimators. Middle-East Journal of Scientific Research. 12, No. 8, 1157-1164.
- Haq, A. and Chand, S. (2012). Pattern and Impact of Facebook usage on the academic performance of students in higher education. Bulletin of Education and Research. 34, (2), 19-28.
- Khan, R.A., and Kamal, S. (2012). Random Intercept and Random Slope 2-Level Multilevel Models. PJSOR Vol.VIII, No.4, 777-788.
- Khurshid, A., Al-Hemari, Z.A. and Kamal, S. (2012). On Complex Random Variables. PJSOR Vol.8, No.3, 645-654.
- Ahmad, Aizaz, and Akhtar, A.S. (2012). Estimation of the Parameters of Rayleigh Distribution based on record values for censored data. S-journals: Scientific Journal of Review (Iran), 1 (4) 130-146.
- Arif, S. and Ilyas, M. (2012). Creating a quality teaching learning environment, The International Journal of Learning, 18(6), 51-70.

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

- Various workshops were arranged for the students of M.Sc. Actuarial sciences, M.Sc. Statistics and MIOM during the year 2011-2012.

- **Research Journals**

- Regularly publishing a quarterly research journal 'Pakistan Journal of Statistics and Operation Research' since 2005

RESEARCH COLLABORATION

- **Indigenous**

- State Bank of Pakistan, HEC, FBS

- **Foreign Linkages**

- Department of Clinical Immunology, Goteborg University, Sweden.

- **Funding Grants for R&D**

- A grant of Rs.2,50,000 was received for the Pakistan Journal of Statistics and Operation Research (PJSOR)

DEPARTMENT OF GEOGRAPHY

• **Research & Development – 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 connected from network to online.
- Laptops are provided to faculty members by the department.

• **Projects (i) Completed**

- One of the faculty members carried out one project independently funded by University of the Punjab during the year 2011-12. "Remote Sensing and GIS Applications in Land Cover and Land Use Changes in Lahore" funded by University of the Punjab.

• **Publications**

The following research papers were published by the faculty of this Department during 2011-12.

- Ibtisam Butt and Ghaffar A (2012) Ground water quality assessment near Mehmood Boti landfill, Lahore, Pakistan, Asian Journal of Social Sciences & Humanities Vol.1, No.2
- Bhalli, M.N.1 and Ghaffar, A.2 (2012) Remote Sensing and GIS application for Assessing Urban Sprawl in Faisalabad City, Pakistan, Asian Journal of Social Sciences & Humanities Vol.1, No.1
- Parveen, N.1 and Ghaffar, A (2012) Assessment of heavy metals contamination in Surface Soil of urban parks: A case study of Faisalabad city, Pakistan of urban parks, Asian Journal of Social Sciences & Humanities Vol.1, No.1
- Sangra, T.A. and Ghaffar, A. (2012): Uncovering Sectarian Concentration and Regional Diversification of the Districts of the Punjab, Indian Journal of Regional Science
- Saeed, A. and Ghaffar, A. (2012): Desertification in Baluchistan Uplands and Water Resources Management: Govt. Perspective", Baluchistan Review—ISSN: 1810-2174.
- Younes, I., Ghaffar, A. (May, 2012). Spatial Patterns of Noise Pollution in Lahore City. Asian Journal of Social Sciences & Humanities, Japan. Vol. 01
- Shirazi, S.A (2012): Remote Sensing and GIS Applications for Monitoring and Assessment of the Urban Sprawl in Faisalabad-Pakistan "Pakistan Journal of Science", Pakistan Association for the Advancement of Science, II Shadman Market, Lahore Vol. 64, No.3
- Shirazi, S.A (2012): Spatio-temporal Patterns of Urban Growth in Faisalabad-Pakistan: A GIS Perspective" Journal of the Research Society of Pakistan", Department of History, Punjab University, Lahore Vol. 49, No. 01
- Shirazi, S.A (2012): Spatial Analysis of NDVI and Density of Population: A Case study of Lahore: Pakistan Journal the "Science International" Lahore Pakistan Vol. 24, No. 01

- Shirazi, S.A (2012): Temporal Analysis of Land Use and Land Cover Changes in Lahore-Pakistan "Pakistan Vision" Journal of Pakistan Study Center, University of the Punjab, Lahore Vol. 13, No. 01
- Munawar Sabir (2011). The role of media in creating values of nationalism in Pakistan' Vol 18, No. 2, Journal of Political Studies.
- **Conferences, Seminars and Workshops etc.**
 - Two of the faculty members attended one day workshop on SPSS in Undergraduate block in September, 2012.
- **Research Journals**
 - The prestigious Pakistan Geographical Review was regular in its publication till 2007 but unfortunately since then journal could not be published. The new editorial board of PGR is determined to get it recognized by HEC and to publish it regularly. The efforts are underway in this regard.

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.
- **Funding Grants for R&D**
 - University of the Punjab

DEPARTMENT OF MATHEMATICS

- **Research & Development – An Overview**
 - Department of Mathematics organized a series of departmental seminars from October 2011 - September 2012. Prof. Dr. Shahid S. Siddiqi, Prof. Dr. Muhammad Sharif, Dr. Malik Zawwar Hussain, Dr. Muhammad Aslam Malik and Dr. Ghazala Akram presented papers in different National and International conference. Department of Mathematics enrolled 04 students in PhD, 19 students in M.Phil, 74 students in M.Sc. (Morning), 63 students in M.Sc. (Evening), 35 students in B.S. At present 24 students in Ph.D., 35 students in M.Phil., 133 students in M.Sc. (Morning), 118 students in M.Sc (Evening), 110 in BS are studying. 01 Ph.D. Student, 13 M.Phil. Students and 05 MS students 73 M.Sc. students and 18 BS Students completed their degrees during this period. M.Phil. /Ph.D. students are doing research in different fields under the supervision of Prof. Dr. Shahid S. Siddiqi, Dr. Muhammad Sharif, Dr. Malik Zawwar Hussain, Dr. Muhammad Aslam Malik and Dr. Ghazala Akram. Lectures by faculty members and M.Phil. / Ph.D. Students of the Department delivered seminars under the Departmental Seminar Series organized by Dr. Muhammad Aslam Malik.
 - Departmental Library has been enriched by adding 175 Books relevant to Mathematics and 27 new research Journals during this period.

• Publications

- Shahid S. Siddiqi, Muzammal Iftikhar and Ghazala Akram, Solution of the Special Seventh Order Boundary Value Problem by the Optimal Homotopy Asymptotic Method, Archives Des Sciences, Vol. 65(2), (2012), pp. 37-44
- Shahid S. Siddiqi, Ghazala Akram and Muzammal Iftikhar, Solution of Seventh Order Boundary Value Problem by Differential Transformation Method, World Applied Sciences Journal, Vol. 16 Issue 11(2012), pp. 1521-1526.
- Shahid S. Siddiqi and Muzammal Younis, A New Family of Binary 5-Point Approximating Non-Stationary Subdivision Scheme, Archives Des Sciences, Vol. 65 Issue 05(2012), pp. 231-245.
- Shahid S. Siddiqi and Muhammad Younis, Ternary Three Point Non-Stationary Subdivision Scheme Research journal of Applied Sciences, Engineering and Technology, Vol. 04 Issue 13(2012), pp. 1875-1882.
- Shahid S. Siddiqi and Kashif Rehan, Symmetric Ternary Interpolating C1 Subdivision Scheme, International Mathematical Forum, Vol. 7 Issue 46(2012), pp. 2269-2277.
- Shahid S. Siddiqi, Ghazala Akram and Kalsoom Arshad, Solution of Fourth Order obstacle using Quintic B-Splines Applied Mathematical Sciences, Vol. 6 Issue 94(2012), pp. 4651-4662.
- Shahid S. Siddiqi, Ghazala Akram and Muzammal Iftikhar, Solution of Seventh Order Boundary Value Problem by Variational Iteration technique, Applied Mathematical Sciences, Vol. 6 Issue 94(2012), pp. 4663-4672.
- Shahid S. Siddiqi, Ghazala Akram and Huzaima Baig, Solution of Delay Differential Equations using Nonic Spline Collocation Methods, International Mathematical Forum, Vol. 7 Issue 46(2012), pp. 2279-2292.
- Shahid S. Siddiqi and Kashif Rehan, A New Method of Corner Cutting Subdivision Scheme, Applied Mathematical Sciences, Vol. 6 Issue 99(2012), pp. 4931-4938.
- Shahid S. Siddiqi and Ghazala Akram, Solution of Seventh Order Boundary Value Problem using Octic Spline, Archives Des Sciences, Vol. 65 Issue 9(2012), pp. 502-509.
- M. Sharif and Shamaila Rani, K-essence Models and Cosmic Acceleration in Generalized Teleparallel Gravity, Phys. Scr. 84(2011)055005 (IOP, UK).
- M. Sharif and Farida Khanum, Anisotropic Dark Energy and Generalized Second Law of Thermodynamics. Phys. Scr. 84(2011)065901 (IOP, UK).
- M. Sharif and H. Ismat Fatima, Cylinder with Charged Anisotropic Source, Can. J. Phys. 89(2011)1203-1213 (Canada).
- M. Sharif and Wajiha Javed, Quantum Corrections for ABGB Black Hole: Astrophys. Space Sci. 337(2012)335-341 (Springer).
- M. Sharif and G. Abbas, Phantom Energy Accretion by Stringy Charged Black Hole:, Chin. Phys. Lett. 29(2012)010401 (China).

- M. Sharif and A. Jawad, Interacting Modified Holographic Dark Energy in Kaluza-Klein Universe, *Astrophys. Space Sci.* 337(2012)789-794(Springer).
- M. Sharif and H.R. Kausar, Newtonian and Post Newtonian Expansionfree Fluid Evolution in $f(R)$ Gravity, *Astrophys Space Sci.* 337(2012)805-813 (Springer).
- M. Sharif and Saira Waheed, Anisotropic Universe Models in Brans-Dicke Theory: *Eur. Phys. J.C* 72(2012)1876 (Springer).
- M. Sharif and M. Azam, Effects of Electromagnetic Field on the Dynamical Instability of Cylindrical Collapse, *JCAP* 02(2012)043 (IOP, UK)
- M. Sharif and A. Jawad, Modified Holographic Dark Energy in Non-flat Kaluza-Klein Universe with Varying G , *Eur. Phys. J.C* 72(2012)1901 (Springer)
- M. Sharif and G. Abbas, Non-Commutative Correction to Thin Shell Collapse in Reissner-Nordstrom, *J. Phys. Soc. Jpn.* 81(2012)044002 (Japan).
- M. Sharif and G. Abbas, Phantom Energy Accretion by a Class of Black Holes: *J. Phys.: Conference Series* 354(2012)012019 (IOP, UK).
- M. Sharif and M. Zubair, Thermodynamics in $f(R,T)$ Theory of Gravity: *JCAP* 03(2012)028 (IOP, UK).
- M. Sharif and M. Zubair, Dynamics of a Magnetized Bianchi VI₀ Universe with Anisotropic Fluid, *Space Sci.* 339(2012)45-51 (Springer).
- M. Sharif and M. Azam, Effects of Electromagnetic Field on the Dynamical Instability of Expansionfree Gravitational Collapse: *Gravit.* 44(2012)1181-1197 (Springer).
- M. Sharif and Z. Yousaf, Shearfree Spherically Symmetric Fluid Models:, *Chin.Phys. Lett.* 29(2012)050403 (China).
- M. Sharif and Wajiha Javed, Black Hole Evaporation in a Noncommutative Charged Vaidya Model: *J. Exp. Theor. Phys.* 114(2012)933-945 (Russia).
- M. Sharif and M. Zubair, ERRATUM: Thermodynamics in $f(R,T)$ Theory of Gravity. *Space Sci. JCAP* 05(2012)E01 (IOP, UK).
- M. Sharif and Wajiha Javed, Fermions Tunneling from Charged Accelerating and Rotating Black Holes with NUT Parameter:, *Eur. Phys. J. C* 72(2012)1997 (Springer).
- M. Sharif and Z. Ahmad, Gravitational Dust Collapse with Cosmological Constant:, *World Applied Sciences J.* 16(2012)1516-1520.
- M. Sharif and Ifra Noureen, Isothermal Plasma Wave Properties of the Schwarzschild de-Sitter Black Hole in a Veselago Medium: *Astrophys. Space Sci.* 340(2012)185-198 (Springer).
- M. Sharif and Rabia Saleem, Statefinder Diagnostic for Dark Energy Models in Bianchi I Universe: *Int. J. Mod. Phys. D.* 21(2012)1250046 (World Scientific).
- M. Sharif and Neelum Bashir, Effects of Electromagnetic Field on Energy Density Inhomogeneity in Self-Gravitating Fluids:, *Gen. Relativ. Gravit.* 44(2012)1725-1737 (Springer).

- M. Sharif and Saira Waheed, Energy Content of Colliding Plane Waves using Approximate Noether Symmetries:, Braz. J. Phys. 42(2012)219-226 (Brazil).
- M. Sharif and Saira Waheed, Dynamics of Magnetized Bulk Viscous Strings in Brans-Dicke Gravity: Int. J. Mod. Phys. D. 21(2012)1250055 (World Scientific).
- M. Sharif, K. Yesmakhanova, S. Rani and R. Myrzakulov, Solvable K-essence Cosmologies and Modified Chaplygin Gas Unified Models of Dark Energy and Dark Matter: Eur. Phys. J. C 72(2012)2067 (Springer).
- M. Sharif and G. Abbas, Expanding and Collapsing Scalar Field Thin Shell, Gen. Relativ. Gravit. 44(2012)2353-2364 (Springer).
- M. Sharif and A. Jawad, Cosmological Evolution of Interacting New Holographic Dark Energy in Non-flat Universe: Eur. Phys. J. C 72(2012)2097 (Springer)
- M. Sharif and Sadia Arif, Static Cylindrically Symmetric Interior Solutions in $f(R)$ Gravity:, Mod. Phys. Lett. A. 27(2012)1250138 (World Scientific).
- M. Sharif and M.Z. Bhatti, Structure Scalars in Charged Plane Symmetry, Mod. Phys. Lett. A. 27(2012)1250141 (World Scientific).
- Hussain, M.Z. Shape preserving curve interpolation, International Journal of Computer Mathematics, Vol. 89(1), 35-53.
- Hussain, M.Z, Shape preserving positive and convex data visualization using rational bi-cubic functions, Pakistan Journal of Statistics and Operation Research, Vol.8 (1), 121-138.
- Hussain, M.Z., , Positivity-preserving scattered data interpolation scheme using the side- vertex method, Applied Mathematics and Computation, Vol. 218, 7898-7910.
- Hussain, M.Z., C1 monotone cubic Hermite interpolation, Applied Mathematics Letters, Vol. 25, 1161-1165.
- Hussain, M.Z. Monotone data visualization using rational functions, World Applied Sciences Journal, Vol. 16(11), 1496-1508.
- Hussain, M.Z. Monotonicity-preserving scattered data interpolation scheme using the side-vertex method, Proc. IEEE 16th International Conference on Information Visualization, July 10-13, Montpellier, France, 480-485.
- Hussain, M.Z. Vectorization of image outlines using rational spline and genetic algorithm, Proc. International Conference on Image, Vision and Computing, August 25-26, Shanghai, China, 16-20.
- Hussain, M.Z. Shape properties of irregular surface data, Pakistan Journal of Statistics and Operation Research, Vol.8 (4), 801-820.
- Hussain, M.Z. Positive data visualization using trigonometric function, Journal of Applied Mathematics, Doi: 10.1155\2012\247120.

- M. Aslam Malik, and M. Riaz, Orbits of $Q^*(m, k, 2)$ under the action of the Modular Group $PSL(2, Z)$, U. P. B. Sci. Bull, Series A, Vol. 74 (4), 2012, 109-116.
- M. Aslam Malik, and S. M. Husnine, Action of the Mobious Group $2, 6, \dots$: $1, M, x, y, x, y, \dots$ on Certain Real Quadratic Fields. PUJM, Vol. 44, 2012, 31-37.
- M. Aslam Malik and S. M. Husnine and M. Asim Zafar, M. Aslam Malik, S.M.Husnine and M. Asim Zafar, Certain H-subsets of $Q(m) \setminus Q$ under the action of $2, 4, \dots$: $1, H, x, y, x, y, \dots$, Pakistan Journal of Science, Vol. 64 No. 1 March, 2012, 67-74.
- 53. M. Aslam Malik and Nousheen Goshi, Invariant subsets of $PLQ(m)$ under the action of $2, 6, \dots$: $1, M, x, y, x, y, \dots$, Pakistan Journal of Science, Vol. 64 No. 3 Sep, 2012, 247-257.
- M. Aslam Malik and M. Touqeer, Intuitionistic fuzzy BCI-commutative ideals in BCI-algebras, Pakistan Journal of Science, Vol. 64 No. 4 Dec, 2012, 353-358.
- M. Aslam Malik and Akbar Ali, The graph is an induced subgraph of a Johnson Graph, International al Contemporary Mathematical Sciences, Vol.7 (8), 2012, 369-376.
- M. Aslam Malik and Akbar Ali, Some Results on Induced Sub graphs of Johnson Graphs, International Mathematical forum, Vol. 7 (9), 2012, 445-454.
- M. Aslam Malik and M. Khalid Mahmood, An Account of Congruences Mod P_k Using Halley's Method World Applied Sciences Journal 16 (11), 2012, 1626-1630.
- Farkhanda Afzal, Qamar Afzal and M. Aslam Malik, A Classification of the Real Quadratic Irrational Numbers a, n, c of $Q^*(m)$ w.r.t Modulo $3r$, International Mathematical Forum, Vol. 7 (39), 2012, 1915-1924.
- M. Aslam Malik and Khalid Mahmood, On Simple Graphs Arising From Exponential Congruence, Journal of Applied Mathematics, Volume 2012, Article ID 292895, 10 pages, doi:10.1155/2012/292895, 2012.
- F. Afzal, I.S. Bhatti and M. Aslam Malik, Action of G and M on $Q(m)$ and Algorithmic Implementation for Group Actions, Journal of Hyper structures 1(1), 2012, 41-51.
- M. Aslam Malik, and M. Riaz, Orbits of $Q^*(m, k, 2)$ under the action of the Modular Group $PSL(2, Z)$, U. P. B. Sci. Bull, Series A, Vol. 74 (4), 2012, 109-116.
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- Shahid S. Siddiqi, Ghazala Akram and Muzammal Iftikhar, Solution of Seventh Order Boundary Value Problem by Differential Transformation Method, World Applied Sciences Journal, Vol. 16 Issue 11(2012), pp. 1521-1526.
- Shahid S. Siddiqi, Ghazala Akram and Kalsoom Arshad, Solution of Fourth Order obstacle using Quintic B-Splines, Applied Mathematical Sciences, Vol. 6 Issue 94(2012), pp. 4651-4662.

- Shahid S. Siddiqi, Ghazala Akram and Muzammal Iftikhar, Solution of Seventh Order Boundary Value Problem by Variational Iteration technique, Applied Mathematical Sciences, Vol. 6 Issue 94(2012), pp. 4663-4672.
- Shahid S. Siddiqi, Ghazala Akram and Huzaima Baig, Solution of Delay Differential Equations using Nonic Spline Collocation Methods, International Mathematical Forum, Vol. 7 Issue 46(2012), pp. 2279-2292.
- Shahid S. Siddiqi and Ghazala Akram, Solution of Seventh Order Boundary Value Problem using Octic Spline, Archives Des Sciences, Vol. 65 Issue 9(2012), pp. 502-509.
- M. Aslam Malik and M. Khalid Mahmood, An Account of Congruences Mod P_k Using Halley's Method, World Applied Sciences Journal 16 (11), 2012, 1626-1630.
- M. Aslam Malik and Khalid Mahmood, On Simple Graphs Arising From Exponential Congruence, Journal of Applied Mathematics, Volume 2012, Article ID 292895, 10 pages, doi:10.1155/2012/292895, 2012.
- **Conferences, Seminars and Workshops etc.**
 - Prof. Dr. Shahid S. Siddiqi attended, One Day Conference on Gravitation held at Department of Mathematics, University of the Punjab Lahore on 17 December, 2011.
 - Prof. Dr. Shahid S. Siddiqi delivered a talk as Invited Speaker, titled Subdivision Schemes for Curve and Surface Designing at Centre for Advanced Studies in Pure & Applied Mathematics CASPAM, Bahauddin Zakariya University, Multan, December 12, 2011.
 - Prof. Dr. Muhammad Sharif delivered a talk Tunneling of Dirac Particles (3rd Galileo-Xu Guangqi Meeting, National Astronomical Observatories, Beijing, China, Oct. 11-15, 2011)
 - Prof. Dr. Muhammad Sharif delivered a talk 53. F(T) Gravity (NUST Conference on Mathematical Sciences, NUST Islamabad, Nov. 17, 2011);
 - Prof. Dr. Muhammad Sharif delivered a lecturer Cosmic Acceleration in Teleparallel Gravity (Int. Conference on Physics and the World of Today, Karachi University, Karachi, December 22, 2011)
 - Prof. Dr. Muhammad Sharif delivered a lecture Kaluza Klein Cosmology with Modified Holographic Dark Energy (4th Winter Meeting in Particles and Physics, Physics Dept. LUMS Lahore, January 28, 2012);
 - Prof. Dr. Muhammad Sharif delivered a lecture on Dark Energy Models and Laws of Thermodynamics (MGM13 Stockholm University, Stockholm-Sweden, July 03, 2012).
 - Prof. Dr. Muhammad Sharif attended a conference on 3rd Galileo-Xu Guangqi Meeting, National Astronomical Observatories, Beijing, China, Oct. 11-15, 2011.
 - Prof. Dr. Muhammad Sharif attended a conference on NUST Conference on Mathematical Sciences, NUST Islamabad, Nov. 17-19, 2011.
 - Prof. Dr. Muhammad Sharif attended a conference on International Conference on Physics and the World of Today, Department of Physics, University of Karachi, Karachi, December 21-22, 2011.

- Prof. Dr. Muhammad Sharif attended a conference on 4th Winter Meeting in Particles and Physics, Department of Physics, LUMS Lahore, January 27-28, 2012).
- Prof. Dr. Muhammad Sharif attended a conference on 13th Marcel Grossmann Meeting held at Stockholm University, Stockholm-Sweden, July 03, 2012).
- Prof. Dr. Malik Zawwar Hussain delivered a lecture on Shape preserving interpolation techniques, Institute of Mathematics, Humboldt University Berlin Germany, July 11, 2012.
- Prof. Dr. Malik Zawwar Hussain delivered a lecture on Positive curves and surfaces for CAGD, Institute of Mathematics, Warsaw University Poland, July 13, 2012.
- Dr. Muhammad Aslam Malik Participated in Spring Workshop On Recent Advances in Graph Theory and Combinatorics, held at Centre for Advanced Studies in Mathematics in collaboration with Abdus Salaams School of Mathematical Sciences, Lahore on February 17, 2012.
- Muhammad Riaz Participated in Spring Workshop On Recent Advances in Graph Theory and Combinatorics, held at Centre for Advanced Studies in Mathematics in collaboration with Abdus Salam School of Mathematical Sciences, Lahore on February 17, 2012.
- Miss Zubair, Ph.D Scholar participated in a Conference on Effects of Electromagnetic Field on the Dynamics of Bianchi V10 Universe Model, Nust Conference on Mathematical Physics on 17-19, November 2011, Nust CAMP Islamabad, Pakistan.
- Miss Zubair, Ph.D Scholar participated in a Conference on Gravitation in Honour of Prof. Dr. Asghar Qadir on 17 December 2011 held at Department of Mathematics, University of the Punjab, Lahore.
- Mr. Muhammad Zaeem Ul Haq Bhatti participated in a Conference, Nust Conference on Mathematical Physics on 17-19, November 2011, Nust CAMP Islamabad, Pakistan.
- Mr. Muhammad Zaeem Ul Haq Bhatti participated in a Conference, on Gravitation in Honour of Prof. Dr. Asghar Qadir on 17 December 2011 held at Department of Mathematics, University of the Punjab, Lahore.
- Mr. Abdul Jawad participated in a Conference, on Gravitation in Honour of Prof. Dr. Asghar Qadir on 17 December 2011 held at Department of Mathematics, University of the Punjab, Lahore.
- Mr. Muhammad Azam participated in a Conference, on Gravitation in Honour of Prof. Dr. Asghar Qadir on 17 December 2011 held at Department of Mathematics, University of the Punjab, Lahore.
- Mr. Muhammad Azam participated in a Conference, Nust Conference on Mathematical Physics on 17-19, November 2011, Nust CAMP Islamabad, Pakistan
- Mr. Abdul Jawad participated in a Conference, on Energy-Momentum Problem in Teleparallel Gravity, Nust Conference on Mathematical Physics on 17-19, November 2011, Nust CAMP Islamabad, Pakistan.
- All Faculty members and M.Phil./MS and Ph.D scholars participate in a Conference, on Gravitation in Honour of Prof. Dr. Asghar Qadir on 17 December 2011 held at Department of Mathematics, University of the Punjab, Lahore.

- All Faculty members and M.Phil./MS and Ph.D scholars participate in the Seminar Series.
- Weekly Departmental Seminar Series are held at Department of Mathematics University of the Punjab, Lahore.
- Each of them delivered lectures on each Wednesday on the topics their latest research.
- **Research Journals**
 - Punjab University Journal of Mathematics (PUJM, Category X)

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 grant scholarships to some of our Ph.D. Scholars.

DEPARTMENT OF PHYSICS

- **Research & Development – 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). Thirty three (33) research papers have been published in National and Internal Research Journals by the faculty members in the last academic year and many are submitted. A research project is in progress which will definitely be helpful for further research publications.
- **Publications**
 - M.A. Iqbal, W. Tahir, G. Murtaza Rai, N.A. Noor, Salamat Ali, K.T. Kubra, An investigation of the titanium effect on the structural and magnetic properties of BaNi₂ based W-type hexaferrites, Ceramic International 38 (2012) (I.F: 1.75).
 - Ghulam Murtaza Rai, Muhammad Azhar Iqbal, Yong-bing Xu, Iain Gordon Will and Qasim Mahmood, Room Temperature Ferromagnetism in Ga_{1-x}Ho_xN (x=0.0 and 0.05) Diluted Magnetic Semiconductor Thin Films, Chinese J. Chem Phys 25 (2012) (I.F: 0.692)

- M.A. Iqbal, Combinatorial Study of SnSbS Thin Films by X-Ray Diffraction and Photoconductivity, Journal of Global Energy 38 (I.F: 0.688)
- M. A. Iqbal and N. Ali, Metal Based Chalcogenide Thin Films for Photovoltaics Chalcogenide, Letters 9(2012) (I.F: 0.835)
- M. A. Iqbal and N. Ali, Optoelectronic Properties of Cadmium Sulfide Thin Films Deposited by Thermal Evaporation Technique, Key Engineering Materials 510-511 (2012) (I.F: 0.363)
- M. A. Iqbal and N. Ali, Physical properties of Sn₂SbS₅ thin films deposited by thermal evaporation techniques, Power and Energy engineering 1 (2012) (I.F: 1.925)
- M. A. Iqbal, Fabrication and characterization of Ga_{1-x}Ho_xN (x=0.0 and 0.05) Diluted Magnetic Semiconductor, Chinese Journal of Chemical Physics 25 (2012) (I.F: 0.692)
- M.A Iqbal, Low frequencies anomalies in GaAs FETs, Nanotech, Electronics Devices Fabrication, 2 (2012) (I.F: 1.417)
- M. Maqbool, S. Muhammad, G. Murtaza, Prof. Dr. Shaukat Ali 5, N. A. Noor, Iftikhar Ahmad, B. Amin:, Optoelectronic Response of GeZn₂O₄ through the Modified Becke–Johnson Potential Chinese Physics Letter 29 (2012) (I.F: 0.8)
- Bushra Haider and Mahmood-ul Hassan, Quasi-Grammian Solutions of the Generalized Coupled Dispersionless Integrable System Methods and Applications Sigma 8 (2012) (I.F: 1.071)
- Usman Saleem and Mahmood ul Hassan (2012): Darboux Transformation and Multisoliton Solutions of the Short Pulse Equation Journal of the Physical Society of Japan 812(I.F: 0.364)
- Muzaffar Bashir, Florian Kempf (2012) Advanced Biometric Pen System for Recording and Analyzing Handwriting Journal of Signal Processing Systems 68(I.F: 0.672)
- C. Aruta, S. Amoruso, G. Ausanio, R. Bruzzese, E. Di Gennaro, M. Lanzano, F. Miletto Granozio, Muhammad Riaz, A. Sambri, U. Scotti di Uccio, and X. Wang(2012): Critical influence of target-to-substrate distance on conductive properties of LaGaO₃/SrTiO₃ interfaces deposited at 10⁻¹ mbar oxygen pressure Applied Physics Letters 101,031602 (2012) (I.F: 3.844)
- Masood, S. R. Ahmad, S. A. Mahmood, J. Qureshi, H. M. Rafique and M.S. Khan, Surface deformation through fractal analysis of DEM based spatial drainage patterns in Gilgit Baltistan region (Northern Pakistan) Pakistan Journal of Science (Local journal) (2012) I.F:0.64
- Ishaq A. , Shahid Iqbal, G. Husnain, A. A. Khurram, A. U. Akrajas, C.F. Dee, Shahzad Naseem H. M . Rafique, Yan Long (2012): keV ion beam induced damage and recrystallization of carbon nanostructures New Carbon Materials (Accepted? where)
- Jahanzeb Qureshi, Syed Amer Mahmood, Amjed S. Almas, Rauf Irshad and H.M. Rafique (2012) Monitoring Spatiotemporal And Micro-Level Climatic Variations In Lahore And Subrubs Using Satellite Imagery And Multi-Source Data, Journal of Faculty of Engineering & Technology 19(2012)
- Naveed Ahmad Noor (2012) Ab initio study of structural, electronic and optical properties of Be-doped CdS, CdSe and CdTe compounds Physica B: Condensed Matter 407 (I.F: 1.063)

- Mr. Naveed Ahmad Noor, S.M. Alay-e-Abbas, b, 1, Kin Mun Wong, 1, A. Shaukat, Yong Lei (2012) An ab-initio study of the structural, electronic and magnetic properties of half-metallic ferromagnetism in Cr-doped BeSe and BeTe Solid State Science 14 (I.F: 1.9)
- Masood yousaf, m. A. Saeed, ahmad radzi mat isa, h. A. Rahnamaye aliabad, and n. A. Noor (2012) Ab initio study of optoelectronic properties of spinel ZnAl_2O_4 beyond gga and lda J. Mod. Phys. B26 (I.F: 0.4)
- N. A. Noor and A. Shaukat, (2012) Ab Initio Study Of Structural, Electronic And Optical Properties of $\text{Mg}_x\text{Cd}_{1-x}$ (X = S, Se, Te) Alloys J. Mod. Phys. B26 (I.F: 0.4)

RESEARCH COLLABORATION

- **Indigenous**

- HEC
- PU
- LUMS

- **Foreign Linkages**

- 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.

DEPARTMENT OF SPACE SCIENCE

- **Publications**

- **Research Journals**

- S.Adila Batool Research Paper : "Scavengers and their Role in the Recycling of Waste in Southwestern Lahore" Resource Conservation and Recycling 58, 2012.PP 152-162(Impact factor=2.34)
- S.Amer Mahmood: S. A. Mahmood and Gloaguen, R. (2012), Appraisal of active tectonics in Hindu Kush; insights from DEM derived geomorphic indices and drainage analysis, Geoscience frontiers Elsevier B.V. on behalf of China University of Geosciences (Beijing), Volume 3, Issue 4, Pages 407–428, (HEC Recognized).
- Jahanzeb Qureshi, S. A. Mahmood, Amjed S. Almas, Rauf Irshad and H.M. Rafique., (2012), Monitoring Spatiotemporal And Micro-Level Climatic Variations In Lahore And Suburbs Using Satellite Imagery And Multi-Source Data, Journal of Faculty of Engineering & Technology (JFET), PU, Lahore, Vol. 19, No.1(2012), Pages 53-68 (HEC Recognized).
- A. Masood S. A. Mahmood, S.R. Ahmad, J. Qureshi, H.M. Rafique and M.S. Khan (2012), Surface Deformation Through Fractal Analysis Of DEM Based Spatial Drainage Patterns In Gilgit Baltistan Region (Northern Pakistan). In Pakistan Journal of Science, vol 64.no.02 (June 2012) (HEC Recognized).

- J. Qureshi, Mahmood, S.A. A. S. Almas, H.M. Rafique, S.R. Ahmad and A. Masood, (2012) Dem Based Geomorphic Analysis along Kalabagh Fault and Potwar Plateau to Constrain Surface Deformation: Inferences from Remote Sensing and GIS). In Pakistan Journal of Science, Vol 64.no.02 (Jun 2012) (HEC Recognized).
- Jahanzeb Qureshi :DEM based geomorphic analysis along Kalabagh fault and Potwar plateau to constrain surface deformation : inferences from remote sensing and gis” published in Pakistan journal of Science, Lahore, Pakistan, volume 64(2), June 2012, page 108-117 (by: J. Qureshi, S.A.Mahmood, A.S.Almas, H.M.Rafique, S.R.Ahmad and A.Masood.”
- “Surface deformation through fractal analysis of DEM based spatial drainage patterns in gilgit baltistan region (northern pakistan)” published in Pakistan journal of Science, Lahore, Pakistan, volume 64(2), June 2012, page 163-172 (by: A.Masood, S.R.Ahmad, S.A.Mahmood, J. Qureshi, H.M.Rafique and M.S.Khan”.
- “Monitoring spatiotemporal and micro-level climatic variations in Lahore and subrubs using satellite imagery and multi-source data” published in Pakistan journal of faculty of engineering and technology, Lahore, Pakistan, volume 19(1), June 2012, page 68 (by: J. Qureshi, S.A.Mahmood, A.S.Almas, R.Irshad and H.M.Rafique.”

INSTITUTE OF CHEMISTRY

• Research & Development – An Overview

- Institute of Chemistry is one of the most active institutes of University of the Punjab regarding its contribution toward research and development. The faculty members of the institute are actively involved in the research and development and present their work at various international and national conferences, seminars and workshops.

• Publications

Dr. Makshoof Athar

- Carbonized green tea dredge, a potential adsorbent for removal of remazol brilliant yellow dye, J. Mater. Environ. Sci. 3 (1) (2012) 149-156
- MicroDetermination of Arsenic in Aqueous Samples by Image Scanning and Computational Quantification, Analytical Methods, Vol. 4, 242-246 (2012).
- Microwave Assisted Synthesis of Esterquat for Fabric Softening Applications, J.Chem.Soc.Pak., Vol. 34, No. 4, 242-246 (2012)
- Biosorption of Pb (II) and Cr (III) from aqueous solutions: Breakthrough curves and modeling studies. Environmental Monitoring and Assessment, (2012)
- Fabrication of nickel nanoparticles modified electrode by reverse microemulsion method and its application in electrolytic oxidation of ethanol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, Vol. 405 (2012)

- Removal of formaldehyde from aqueous solution by adsorption on kaolin and bentonite: a comparative study. Turkish J. Eng. Env. Sci. Vol. 36, 263-270 (2012)
- Thermodynamics of Biosorption for Removal of Co(II) Ions by an Efficient and Ecofriendly Biosorbent (*Saccharum bengalense*): Kinetics and Isotherm Modeling. Journal of Chemistry, Vol. 2013. 1-8, (2012)
- Insight to rapid removal of Pb(II), Cd(II) and Cu(II) from aqueous solution using an agro-based adsorbent *Sorghum bicolor* L. biomass, Desalination and Water Treatment, (2012) (Accepted)
- Dispersion modeling of toxic air pollutants from fossil fuel combustion facilities, International Journal of Environmental Engineering, (2012) (Accepted)

Dr. Munawar Ali Munawar

- Assessment of antithyroid activity of 2, 8-disulfany-1, 9-dihydro-6H purin-6-one in vitro and in vivo. Medicinal Chemistry Research, 21, 1039-1043 (2012).
- Amino Acid Catalyzed synthesis of Triarylimidazoles-A new Green protocol. Asian Journal of Chemistry, 24(ii), 5114-5116 (2012).
- Synthesis of 2-methyl-4-quinolone-3-acetic acids with potential antibacterial activity. Journal of the Chilean Chemical Society, 57(3), 1237-1239 (2012).
- Alcohol promoted Green protocol for Biginelli Reaction. Journal of the Chinese Chemical Society, 59, 1446-1448 (2012).
- N-(2,4,6-trimethyl)-1,3-thiazol-2-amine. Acta Cryst. E, E68 (2012).
- N-(2,4-Dichlorophenyl)-1,3-thiazol-2-amine. Acta Cryst. E, E68, o2704 (2012).
- Thyroid retarding effects of dimethyl sulfoxide. Pakistan Journal of Nuclear Medicine, 2, 33-37 (2012).
- The importance of CA125 as predictive tool in ovarian carcinoma. Pakistan Journal of Nuclear Medicine, 2, 27-32 (2012).
- Synthesis of 3-aryl-1H-Indazoles and Their Effects on Plant Growth. J. Plant Growth Regul (online)
- A convenient synthesis of bioactive 5-arylidenebarbiturates. Journal of the Chemical Society of Pakistan, 34, 1305-1311 (2012)
- Antimicrobial Activities of Novel Bis-Piperidinium Compounds. Polish Journal of Microbiology, 61(3), 219-221 (2012),

Dr. Tajamal Hussain

- High Pressure ESR Studies of Electron Self Exchange Reactions of Organic Radicals in Solution. Journal of Physical Chemistry A, 2012.
- Structurally Modified Poly(vinyl alcohol) Ionic Composites as Efficient Humidity Indicators. Polymer Composites. 2012

- Rapid assay of the comparative degradation of acetaminophen in binary and ternary combinations. *Arabian Journal of Chemistry*. 2012

Dr. Tariq Mahmud

- Isothermal and thermodynamical modeling of chromium (III) adsorption by composites of polyaniline with rice husk and saw dust, *Journal of the Chilean Chemical Society*, 57 (1), 1058-1063 (2012).
- Synthesis, analytical and antibacterial studies of N-[4-(phenyliminomethyl) phenyl] acetamide 0.67-hydrate and its complexes with Manganese (II), Cobalt (II) and Nickel (II), *Journal of the Chemical Society of Pakistan*, 34 (1), 67-71 (2012).
- Comparative removal of Congo Red dye from water by adsorption on *Grewia asiatica* leaves, *Raphanus sativus* peels and activated charcoal, *Journal of the Chemical Society of Pakistan*, 34 (1), 112-119 (2012).
- Isothermal Modeling of batch biosorption of Brilliant Green dye from water by chemically modified *Eugenia jambolana* leaves, *Journal of the Chemical Society of Pakistan*, 34 (1), 136-143 (2012).
- Comparative study of mineral ion composition in seeds of medicinal plants employed in antidiabetic herbal/ Ayurvedic medicines, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11(2), 68-75 (2012).
- Comparative thermal and catalytic recycling of low density polyethylene into diesel-like oil using different commercial catalysts, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11(2), 96-105 (2012).
- Optimization of operational conditions for batchwise biosorption of chromium (VI) using chemically treated *Alstonia scholaris* leaves as biosorbent, *Journal of the Chemical Society of Pakistan*, 34 (2), 292-298 (2012).
- Thermodynamical and isothermal modeling of Methylene Blue dye batch biosorption on formalin modified *Madhuca longifolia* leaf powder, *Journal of the Chemical Society of Pakistan*, 34 (2), 460-467 (2012).
- Statistical analysis of selected heavy metals by ICP-OES in hair and nails of cancer and diabetic patients of Pakistan, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11 (3), 163-171 (2012).
- Biosorptive treatment of Acid Yellow-73 dye solution with chemically modified *Eugenia jambolana* seeds, *Journal of the Chemical Society of Pakistan*, 34 (5), 1120-1126 (2012).
- Thermodynamical and mechanistic studies of Direct Red-28 adsorption on *Syzygium cumini* stem, *Journal of the Chemical Society of Pakistan*, 34 (5), 1156-1162 (2012).
- Detoxification of Acid Blue-w dye from water using chemically modified *Pisum sativum* peels as biosorbent-(a green approach), *Proceedings of International Conference on Environment 2012 (ICENV 2012)*, 11-13 December 2012 Penang, Malaysia, pp:103-111.

Miss Rabia Rehman

- Micro-determination of arsenic in aqueous samples by Image Scanning and Computational Quantification, *Analytical Methods*, 4(1), 242-246 (2012).
- Isothermal and thermodynamical modeling of chromium (III) adsorption by composites of polyaniline with rice husk and saw dust, *Journal of the Chilean Chemical Society*, 57 (1), 1058-1063 (2012).
- Synthesis, analytical and antibacterial studies of N-[4-(phenyliminomethyl) phenyl] acetamide 0.67-hydrate and its complexes with Manganese (II), Cobalt (II) and Nickel (II), *Journal of the Chemical Society of Pakistan*, 34 (1), 67-71 (2012).
- Comparative removal of Congo Red dye from water by adsorption on *Grewia asiatica* leaves, *Raphanus sativus* peels and activated charcoal, *Journal of the Chemical Society of Pakistan*, 34 (1), 112-119 (2012).
- Isothermal Modeling of batch biosorption of Brilliant Green dye from water by chemically modified *Eugenia jambolana* leaves, *Journal of the Chemical Society of Pakistan*, 34 (1), 136-143 (2012).
- Removal of Arsenic from water using pine leaves, *Journal of the Taiwan Institute of Chemical Engineers*, 43 (2), 256-263 (2012).
- Comparative study of mineral ion composition in seeds of medicinal plants employed in antidiabetic herbal/ Ayurvedic medicines, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11(2), 68-75 (2012).
- Comparative thermal and catalytic recycling of low density polyethylene
- into diesel-like oil using different commercial catalysts, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11(2), 96-105 (2012).
- Optimization of operational conditions for batchwise biosorption of chromium (VI) using chemically treated *Alstonia scholaris* leaves as biosorbent, *Journal of the Chemical Society of Pakistan*, 34 (2), 292-298 (2012).
- Statistical analysis and quantification of alpha tocopherol in edible seeds and nuts of Pakistan by reversed phase HPLC with UV/Visible detector, *Journal of the Chemical Society of Pakistan*, 34 (2), 302-305 (2012).
- Microwave assisted synthesis of Esterquat for fabric softening applications, *Journal of the Chemical Society of Pakistan*, 34 (2), 415-418 (2012).
- Thermodynamical and isothermal modeling of Methylene Blue dye batch biosorption on formalin modified *Madhuca longifolia* leaf powder, *Journal of the Chemical Society of Pakistan*, 34 (2), 460-467 (2012).
- Statistical analysis of selected heavy metals by ICP-OES in hair and nails of cancer and diabetic patients of Pakistan, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11 (3), 163-171 (2012).

- Microanalysis of Mercury in Fish and Root Vegetable samples by Image Scanning Densitometry using Computationally Quantified Spot Tests, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11 (4), 279-285 (2012).
- Toxic and nutritive elements analysis of commercially available tea samples of Pakistan by ICPOES employing microwave digestion, *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 11 (5), 459-468, 2012.
- Forced migration of soluble and suspended materials by freezing front in aqueous systems, *Journal of Hydro-environment Research*, 6 (3), 221-226 (2012).
- Removal of formaldehyde from aqueous solution by adsorption on kaolin and bentonite-a comparative study. *Turkish Journal of Engineering and Environmental Sciences*, 36 (3), 263-270 (2012). doi:10.3906/muh-1109-8
- Biosorptive treatment of Acid Yellow-73 dye solution with chemically modified *Eugenia jambolana* seeds, *Journal of the Chemical Society of Pakistan*, 34 (5), 1120-1126 (2012).
- Batchwise removal of chromium(VI) by adsorption on novel synthesized polyaniline composites with various brands and isothermal modeling of equilibrium data, *Journal of the Chemical Society of Pakistan*, 34 (5), 1134-1139 (2012).
- Thermodynamical and mechanistic studies of Direct Red-28 adsorption on *Syzygium cumini* stem, *Journal of the Chemical Society of Pakistan*, 34 (5), 1156-1162 (2012).
- Adsorptive removal of Congo Red and Sunset Yellow dyes from water by Lady Finger stem, *Journal of the Chemical Society of Pakistan*, 34 (5), 1241-1247 (2012).
- Detoxification of Acid Blue-w dye from water using chemically modified *Pisum sativum* peels as biosorbent-(a green approach), *Proceedings of International Conference on Environment 2012 (ICENV 2012)*, 11-13 December 2012 Penang, Malaysia, pp:103-111.

Muhammad Salman

- Micro-determination of arsenic in aqueous samples by Image Scanning and Computational Quantification, *Analytical Methods*, 2012, 4, 242-246
- Removal of Arsenic from water using Pine Leaves, *Journal of Taiwan Institute of Chemical Engineers*, 2012, 43, 256-263.
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- Isothermal Modeling of Batch Biosorption of Brilliant Green Dye from Water by Chemically Modified *Eugenia jambolana* Leaves *J. Chem. Soc. of Pak.*, 2012, 34(1), 136-143.
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- Optimization of operational conditions for batchwise biosorption of chromium (VI) using chemically treated *Alstonia Scholaris* Leaves as Biosorbent *J. Chem. Soc. of Pak.*, 2012, 34(2), 292-298.

- Thermodynamical and Mechanistic Studies of Direct Red-28 Dye Adsorption on Syzygium cumini Stem, J. Chem. Soc. Pak, 2013, 34(5), 1156-1162.
- Forced Migration of Soluble and Suspended Materials by Freezing Front in Aqueous Systems, Journal of Hydro-environment Research, 2012, 6, 221-226.
- Removal of Formaldehyde from Aqueous Solution by Adsorption on Kaolin and Bentonite - a Comparative Study, Turkish Journal of Engineering and Environmental Sciences, 2012, 36, 263-270.
- Comparative Thermal And Catalytic Recycling Of Low Density Polyethylene Into Diesel-Like Oil Using Different Commercial Catalysts, EJEAFChe, 2012, 11(2), 96-105.
- Statistical Analysis Of Selected Heavy Metals In Hair And Nails Of Cancer And Diabetic Patients Of Pakistan EJEAFChe, 2012, 11(3), 163-171.
- Microanalysis Of Mercury In Fish And Root Vegetable Samples By Image Scanning Densitometry Using Computationally Quantified Spot Tests, EJEAFChe, 2011, 11(4), 279-285.
- Toxic and nutritive elements analysis of commercially available tea samples of Pakistan by ICPOES employing microwave digestion, EJEAFChe, 2012, 11(5), 459-468.

Dr. Farah Kanwal

- Synthesis of Polypyrrole/zinc oxide composites and study of their structural, thermal and electrical properties, Synthetic Metals, 161 (23-24), 2012, 2753-2758.
- Inhabitants close to the main roads at the outskirts of Metropolitan Cities are exposed more to SO_x; Euclalyptus Tree as a Bioindicator, Polish Journal of Environmental studies, 21(2), 2012, 375-379.
- Isothermal and thermodynamic modeling of chromium (III) adsorption by composites of polyaniline with rice husk and saw dust, Journal of Chilean Chemical Society, 57(1), 2012, 1058-1063.
- Comparative adsorption studies of methyl orange using different varieties of melon seeds as adsorbents, Asian Journal of chemistry, 24(6), 2012, 2668-2670.
- Synthesis of highly thermally stable Polypyrrole/carbon nanotubes (Ppy-Cnts) composites with tunable DC conductivity, Asian Journal of chemistry, 24(11), 2012, 5035-503
- Removal of Chromium(III) using synthetic polymers, copolymers and their sulfonated derivatives as adsorbents, E-Journal Chemistry, 9(2), 2012, 621-630.
- Batchwise removal of chromium(VI) by adsorption on novel synthesized polyaniline composites with various brands and isothermal modeling of equilibrium data. Journal of the Chemical Society of Pakistan, 34 (5), 1134-1139 (2012).

Dr. Azeem Intisar

- Effect of Mobile Phase Composition and pH on HPLC Separation of Rhizome of Polygonum bistorta. Journal of Liquid Chromatography & Related Technologies. 2012, 35(7): 977-987.

- Difference in Essential Oil Composition of Rhizome of *Polygonum bistorta* L. from Different Asian Regions and Evaluation of its Antibacterial Activity. *Journal of Essential Oil Bearing Plants*. 2012, 15(6): 964-971.
- Study on Light Aging of Silk Fabric by Fourier Transform Infrared Spectroscopy and Principal Component Analysis. *Analytical Letters*. 2012, 45(10): 1286-1296.
- RP-HPLC Separation and Statistical Data Processing of Different Batches of Aerial Parts of *Jologbo*. *Journal of Liquid Chromatography and Related Technologies*. 2012, DOI: 10.1080/10826076.2012.733998

Dr. M.Abdul Qadir

- Optimization of gas chromatographic analysis of halogenated acids in drinking water using full factorial experimental design", *J. Desalination and Water Treatment*, 49, 34-40 (2012)
- Synthesis and stability study of a new bimetallic Complex (Ph₃P)CuMn(CO)₅; *Asian Journal of Chemistry* Vol. 25, No.3, 1597-1599 (2013)
- Micelle direct synthesis of (C₁₉H₄₂N)₄H₃(PW₁₁O₃₉) nanoparticles and their catalytic efficiency for oxidative degradation of azo dye, *J. Sol-Gel Technol*, 63:194-199 (2012). (ISSN: 1573-4846, IF: 1.632)
- Synthesis of Gluconic Acid and its Salts by using Bimetallic Catalyst, *J.Chem Soc. Pak.*, Vol. 34, No.3, 648-650 (2012). (ISSN:0253-5106, IF:1.377)
- Evaluation of trace element composition of aerosols in the atmosphere of Rawalpindi and Islamabad by using radio analytical methods", *J. Applied Radiation and Isotopes*, 70, 906-910 (2012). (ISSN: 0969-8043, IF 1.02)

Dr. Ejaz Ahmed

- A Convenient Synthesis of Bioactive 5-Arylidenebarbiturates. *J.Chem.Soc.Pak.*, Vol. 34, No.5, 2012
- Alcohols Promoted Green Protocol for Biginelli Reaction. *Journal of Chinese Chemical Society*. DOI: 10.1002/jccs.201100472)
- Regiospecific MnO₂ Catalyzed Hydration of Phenylmethylene Malononitriles to Cyanophenylacrylamides by Oximes. *J.Chem.Soc.Pak*. Vol. 34. No. 3, 2012.

Dr. Ahsan Sharif

- A Convenient Synthesis of Bioactive 5-Arylidenebarbiturates. *J.Chem.Soc.Pak.*, Vol. 34, No.5, 2012
- Alcohols Promoted Green Protocol for Biginelli Reaction. *Journal of Chinese Chemical Society*. DOI: 10.1002/jccs.201100472)
- Regiospecific MnO₂ Catalyzed Hydration of Phenylmethylene Malononitriles to Cyanophenylacrylamides by Oximes. *J.Chem.Soc.Pak*. Vol. 34. No. 3, 2012.

Dr. Muhammad Rouf Alvi

- Silaphenolates and Silaphenylthiolates: Two Unexplored Unsaturated Silicon Compound Classes Influenced by Aromaticity. *Molecules*. 2012, 17, 369-389

Zahoor H. Farooqi

- Associative properties of hydrophilic tip modified oxyethylene-oxybutylene diblock copolymers in aqueous media: Effect of end-group. *Journal of Applied Polymer Science*. 2012, 124, 951-957
- Interactions of ionic surfactants with PEO-PBO-PEO triblock copolymers in aqueous solutions. *Journal of Dispersion Science and Technology*. 2012, 33, 191-199.
- Thermodynamics of adsorption and micellization of triblock copolymers of oxyethylene and oxybutylene in aqueous medium using surface tensiometry. *Journal of Dispersion Science and Technology*. 2013 (Accepted). (DOI:10.1080/01932691.2012.662434)
- Synthesis and characterization of p(NIPAM-AA-AAm) microgels for tuning of optical Properties of silver nanoparticles. *Journal of Polymer Research* 2012, 19, 9950-9960
- Synthesis, Characterization and Silver Nanoparticles Fabrication in N -isopropylacrylamide based Polymer Microgels for Rapid Degradation of p-Nitrophenol. *Journal of Dispersion Science and Technology*. 2013 (Accepted).

Dr. Imtiaz Shafiq

- FASCAPLYSIN as a Specific Inhibitor for CDK4: Insights from Molecular Modelling, *PloS one* 7, e42612 (2012).

Dr. Sadia Ata

- Optimizing gas chromatographic analysis of non-volatile halogenated acids in drinking water using two- level- factorial experimental design. *Desalination and water treatment*. 49,pp 34–40. Impact factor: 0.879 DOI:10.1080/19443994..708195
- Equilibrium, Thermodynamics, and Kinetic Sorption Studies for the Removal of Coomassie Brilliant Blue on Wheat Bran as a Low-Cost Adsorbent. *Journal of Analytical Methods in Chemistry*. pp 1-8.
- Biosorptive removal of lead and cadmium ions from aqueous soln, the use of carrot residues as low cost non-conventional adsorbents. *Turkish journal of Biochemistry*. 37 (3) ; 272–279.
- Evaluation of Trace Elemental Composition of Aerosols in the Atmosphere of Rawalpindi and Islamabad using Radio Analytical Methods. *Applied radiation and isotopes*. 70,pp 906-910,2012.
- Synthesis, spectroscopic characterization and antibacterial activities of three Schiff bases derived from dehydroacetic acids with various substituted anilines. *Turkish journal of biochemistry*. Vol.37, pp 386-391.
- Thermal de-binding study of powder injection molded Fe + 12% Cu using TG/MS. *Powder Metallurgy*. . DOI- 10.11.1179/1743290111y.0000000023. vol. 55,pp.118-123

Prof. Dr. Saeed Ahmad Nagra

- Effect of weightlessness on neutrophils and lymphocytes of rats. *Pak.Vet. J.* 32(1):2530, 2012.
- ^{99m}Tc labeled levofloxacin as an infection imaging agent: A Novel Method for labeling levofloxacin using cysteine Cl as Co-ligand and In Vivo study. *Turkish Journal of Chemistry*, 36,267-277,2012

- Lack of association of insertion/deletion polymorphism in angiotensin converting enzyme gene with nephropathy in type 2 diabetes patients in Punjabi population of Pakistan. Afri.J.Biotechnol.11(6)1484-89, 2012
- Biochemical analysis of granzyme H and elucidation of its structurally important residues involved in substrate and inhibitor binding. J. Chinese Pharmaceutical Sciences.21: 3339, 2012.
- Synthesis of 3-Aryl-1H-Indazoles and their effects on plant growth. J.Plant Growth regul. DOI 10.1007/s00344-012-9297-1
- Synthesis of 2-methyl-4quinolone-3-acetic acids with potential antibacterial activity. J. Chilean Chem, Soc. 57(30):1237-1239, 2012
- **Conferences, Seminars and Workshops etc.**
 - A research paper entitled “Detoxification of Acid Blue-W dye from water using chemically modified Pisum sativum peels as biosorbent-a green approach “ was orally presented by Dr. Tariq Mahmud, in the International Conference on Environment (ICENV 2012), 11th -13th December, 2012, Penang, Malaysia, organized by the School of Chemical Engineering, Universiti Sains Malaysia (USM), Penang, Malaysia.
 - Oral presentation by Dr. Sadia on “Analysis of Non-Volatile Toxic Heavy Metals (Cd,Pb,Cu,Cr,Zn) in ALLIUM SATIVUM (Garlic) and Soil Samples, Collected From Different Locations of Punjab, Pakistan By Atomic Absorption Spectroscopy in the 16th International Conference on heavy Metals in Environment. Rome, Italy.23-27 September, 2012.
 - Poster presentation by Dr. Sadia, on, Tracer Elements analysis of Aerosols in the Atmosphere of Lahore using Radio Analytical Techniques. The 16th International Conference on heavy Metals in Environment. Rome, Italy.23-27 September, 2012.
 - Oral presentation of Dr. Tajammal Hussain on the title, "Effects of ion pairing and Coloumbic Repulsion on Spin Exchange Reactions- An ESR Study" in the 8th Asia pacific ESR/EPR symposium 2012,held in Oct. 11-15, 2012, in Beijing, China.

RESEARCH COLLABORATION

- **Indigenous**

Institute of Chemistry has also established research collaborations and linkages with the following organizations.

- PCSIR, Ferozpur Road, Lahore.
- HEJ, Karachi.
- PINSTECH, Islamabad.
- NIBJI, Faisalabad.
- ANMOL, Lahore.

INSTITUTE OF GEOLOGY

• **Research & Development – An Overview**

- The Institute of Geology is one of the earliest departments of the Punjab University, providing the trained indigenous workforce equipped with strong academic background in natural resources exploration and related issues. 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 blends theory, observation, laboratory studies and integration of 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 geosciences, 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.

• **Projects (i) Completed**

During the report period following research projects have been carried out and completed by the faculty members at the Institute.

Sr. No.	Projects Title	Investigator	Amount (Rs. Million)	Sponsoring Agency	Duration (years)
1.	Application of Advanced Oxidation Processes (AOPs) to Bleach Textile Substrate.	Prof. Dr. Nasir Ahmad	0.25	University of the Punjab, Lahore	01
2.	Biostratigraphy of Chorgali Formation, Potwar Area, Northern Pakistan.	Dr. Shahid Jamil Sameeni	0.2	-do-	01
3.	Petrology and Economic Geology of the Hangu Formation of the Unexplored Areas in the Salt Range and Hazara Areas, Pakistan.	Syed Mahmood Ali Shah	0.15	-do-	01
4.	Sedimentology of the Early Eocene Nammal Formation, Central Salt Range, Pakistan.	Dr. Shahid Ghazi	0.15	-do-	01

(ii) Newly Launched

Sr. No.	Projects Title	Investigator	Amount (Rs. Million)	Sponsoring Agency	Duration (years)
1.	Evaluation of indirect methods for the determination of Uniaxial compressive strength of tertiary limestones.	Prof. Dr. M. Saeed Farooq	0.250	University of the Punjab, Lahore	01
2.	Biostratigraphy of the Upper Paleocene Lockhart Limestone of Kala Chitta Area, Northern Pakistan.	Dr. Shahid Jameel Sameeni	0.20	University of the Punjab, Lahore	01
3.	Application of Geographic Information System and remote sensing for spatial distribution of estimated above ground biomass	Dr. Sajid Rashid Ahmad	0.150	University of the Punjab, Lahore	01

Sr. No.	Projects Title	Investigator	Amount (Rs. Million)	Sponsoring Agency	Duration (years)
	(AGB) for carbon stock in Ayubia National Park, KPK, Pakistan.				
4.	Depositional Framework for Upper Cretaceous Rocks Exposed North of Nathiagali Thrust, Hazara NW Lesser Himalayas, Pakistan.	Dr. Naveed Ahsan	0.150	University of the Punjab, Lahore	01
5.	Sedimentology of the Lower Eocene Sakesar Limestone, Salt Range, Pakistan.	Dr. Shahid Ghazi	0.70	Pakistan Science Foundation	03
6.	Sedimentology of the Early Eocene Sequence, Central Salt Range, Pakistan	Dr. Shahid Ghazi	0.150	University of the Punjab, Lahore	01
7.	Carbonate Microfacies Analysis and Diagenetic Framework of the Paleocene Lockhart Limestone Nammal Gorge, Western Salt Range, Pakistan.	Dr. Abdur Rauf Nizami	0.150	University of the Punjab, Lahore	01
8.	Correlation of mineral and mechanical properties of Salt Range Rocks	Dr. Sohail Akram	0.150	University of the Punjab, Lahore	01
9.	Sedimentology and Biostratigraphy of the Paleocene Lockhart Limestone of Jabri Area, Hazara, Northern, Pakistan.	Mr. Adnan Abdul Karim	0.125	University of the Punjab, Lahore	01
10.	Identification and Evaluation of Stream Sediments for Construction Materials of Potwar Region, Pakistan.	Mr. Rana Ammad Bin Sadiq	0.125	University of the Punjab, Lahore	01
11.	Subsurface Structural Interpretation of Mayal Area, North Potwar Deformed Zone (NPDZ) and Fracture Analysis of Sakesar Limestone, Potwar Area, Pakistan.	Mr. Muhammad Armaghan Faisal Miraj	0.125	University of the Punjab, Lahore	01
12.	Estimation of Arsenic concentration in ground water in the selected areas of Rachna-Doaab, Northern Punjab, Pakistan.	Mr. Muhammad Sanaullah	0.125	University of the Punjab, Lahore	01
13.	Sedimentology and Biostratigraphy of the Paleocene Lockhart Limestone of Jabri Area, Hazara, Northern Pakistan.	Ms. Sidra Sana	0.125	University of the Punjab, Lahore	01

• Publications

Following research papers have been published by the faculty members during the report period.

Dr. Shahid Jamil Sameeni

- S.J. Sameeni, Mirza, K. and Humaira, N. (2011). Paleocene-Eocene Boundary in Kohat Potwar Area, Northern Pakistan, presented at World Conference on Paleontology & Stratigraphy 2011, at Nakhon Rachtama, Thailand from November 30 to December 2, 2011. Abstract Vol.
- S. J. Sameeni, Rabia Imtiaz, Hajra Saleem, Mohammad Haneef and Humaira Naz (2012). Biostratigraphy of the Patala Formation, Makarwal Area, Surghar Range, Northern Pakistan, Journal of Himalayan Earth Sciences, Abstract Vol. No. 45(2), p-90.

Dr. Sajid Rashid Ahmad

- Ahmad, S.R. (2011). Time Series Modeling of Data on Coastline Advance and Retreat. Journal of Coastal Research, 27(06) / 1094-1102.
- Ahmad, S.R. (2011). Modeling Categorical Data to Identify Factors Influencing Concern for the Natural Environment in Iran, Journal of Environmental Management, 92 / 2836-2843
- Ahmad, S.R. (2011). Slope stability analysis in Hard Rocks and Prediction of Landslide along Khewra Choha Saiden Shah Road, Salt Range Pakistan, Pakistan Journal of Science, 63(4) 232-235
- Ahmad, S.R., and Lakhan, V.C. (2012). GIS-Based Analysis and Modelling of Coastline Advance and Retreat Along the Coast of Guyana. Marine Geodesy, Marine Geodesy: An International Journal of Ocean Surveys, Mapping and Sensing 35: 1-15.
- Ahmad, S.R. (2012). Cyclicity and lithofacies modelling by application of Markov chain analysis to the Warchha Sandstone, Salt Range, Pakistan, Pakistan Journal of Science, 64(3) 232-241.
- Ahmad, S.R. (2012). Sewage Water Intrusion in the Groundwater of Lahore, its Causes and Protections, Pakistan Journal of Nutrition, 11(05) 484-488.
- Ahmad, S.R. (2012). Well log study and petrophysical properties of the Early Permian Warchha Sandstone, Potwar Basin, Pakistan Journal of Science, 64 (03)173-179.
- Ahmad, S.R. (2012). Surface Deformation through Fractal Analysis of DEM Based Spatial Drainage Patterns in Gilgit Baltistan Region (Northern Pakistan), Pakistan Journal of Science, 64 (2) 163-172.
- Ahmad, S.R. (2012). DEM Based Geomorphic analysis along Kalabagh Fault and Potowar Plateau to constrain surface deformation: Inferences from Remote Sensing and GIS, Pakistan Journal of Science, 64 (2)108-117.
- Ahmad, S.R. (2012). Microbiological contamination in groundwater of Wah area, Pakistan Journal of Science, 64(01) 20-23.
- Ahmad, S.R. (2012). Determination of Effects of Khanpur Dam Reservoir on Nutrition Source of Groundwater, Pakistan Journal of Nutrition, 11(09) 735-738.
- Ahmad, S.R. (2012). Estimation and Distribution of Nitrate Contamination in Groundwater of Wah Town, its Causes and Management, Pakistan Journal of Nutrition, 11(4), 332-335.

Dr. Abdur Rauf Nizami

- Nizami, A.R. (2012), Preparation of Industrial Chemicals by Acid Leaching from the Koga Nepheline Syenite, Southern Swat, Lesser Himalayas-Pakistan, Jour. Chem. Soc. Pakistan, 34 (3) pp 570-574.
- Nizami, A.R. and Masood, T.R. (2012), Developments in the Techniques of Earthquake Prediction in the Preview of Disaster Preparedness and Risk Reduction, Proceedings of 2nd International Disaster Management Conference (IDMC-2010) held from October 19-21, 2010 at Baragali Summer Campus, University of Peshawar, p. 111-126.
- Nizami, A. R., Razi, S. A., Hamid, K., and Gohar, K. I. (2012), Microfacies and Diagenetic Framework of the Lauralai Formation Khader Zai Nala Section, Western Sulaiman Range, Pakistan, Journal of Himalayan Earth Sciences, No. 45 (2), P 82.

Dr. Mian Sohail Akram

- Akram, M.S. Sharrock, G. and Mitra, R. (2011). Physical and numerical investigation of conglomerates. 2nd International FLAC/DEM Symposium, February 14-16, 2011, Melbourne, Australia.
- Akram, M. S., Sharrock, G. and Mitra, R. (2011). The role of interstitial cement in cemented spheres. 2nd International FLAC/DEM Symposium, February 14-16, 2011, Melbourne, Australia.
- **Conferences, Seminars and Workshops etc.**
 - Dr. Shahid Jamil Sameeni attended a World Conference on Paleontology & Stratigraphy 2011, at Nakhon Rachtama, Thailand from November 30 to December 2, 2011 to present a paper titled "Paleocene-Eocene Boundary in Kohat Potwar Area, Northern Pakistan"
- **Research Journals**
 - Institute of Geology publishes an annual research journal "The Geological Bulletin of the Punjab University" up-coming vol. 48 is under process.

RESEARCH COLLABORATION

- **Indigenous**
 - MoU for collaborative research with department of Geological Engineering, University of Engineering & Technology, Lahore
 - 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 Forecast and Warning Department, Swedish Meteorological and Hydrological Institute, Sweden.
 - M/S Thies, Germany

- Funding Grants for R&D**

Following faculty members of the Institute of Geology got funding from Pakistan Science Foundation (PSF) against the following research projects.

Sr. No.	Projects Title	Investigator	Amount (Rs. Million)	Sponsoring Agency
1.	Sedimentology of Petroleum bearing carbonate rocks of Paleocene age Kohat, Potowar area of Upper Indus Basin.	Dr. Nazir Ahmad	0.7	Pakistan Science Foundation (PSF)
2.	Sedimentological Studies of the Lower Eocene Sakesar Limestone Salt Range Pakistan	Dr. Shahid Ghazi	0.535	-do-

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- Research & Development – An Overview**

- 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
 - Robotics
 - Parallel and Distributed Computing
 - Open Source Software Development
- The above mentioned labs are being used for conducting research, by the graduate students.

- Books**

Sr. No.	Name of Faculty Member	Title of Book	Year of Publication	Name of Publisher
1	Syed Waqar ul Qounain	Analysis and Validation of Models for Trust Dynamics	Dec 2011	VU University Amsterdam
2	Aasim Ali	Urdu Text to Speech System for Android	Dec 2011	VDM Verlag Dr. Muller
3	Muhammad Idrees	Eulancement of Throghput in AODV usip relative Mobility of Nodes	Dec 2011	Lambert

- Conferences, Seminars and Workshops etc.**

Sr. No.	Name of Author	Conference Publication
1.	Dr. Faisal Aslam, Jonathan & L.Gross	Rethinting Java Call stock design for tiny embedded devices, Conference ACM LCTES

Seminars arranged by the Department:

Sr. No.	Speaker	Seminar
1.	Mr. Fareed ul Hassan	Parallel Image Rectification for Geo Spatial Analysis
2.	Dr. Muhammad Atif	Introduction to Formal Methods
3.	Dr. Mohammad Reza Mousavi	Mechanized Bug Hunting in Wireless Networks
4.	Dr. Imran Farid Khan and Dr. Mehvish Irfan Poshni	Introduction to topological graph theory with a special focus on genus distributions
5.	Dr. Fawaz Bukhari	Routing and Channel Assignment Schemes for Interference Avoidance in Wireless Mesh Networks

- Research Journals**

Sr. No.	Name of Author	Title of Paper/Article
1.	Syed Waqar ul Qounain	Bosse, T., M., Jaffry, S.W. Siddiqui and J. Treur, Comparative Analysis of Agent-Based and Population-Based Modelling in Epidemic and Economics. In: Multiagent and Grid Systems,
	Syed Waqar ul Qounain	Hoogendoorn, M., Jaffry S.W., and Treur, J. Cognitive and Neural Modeling of Dynamics of Trust in Competitive Trustees.
2.	Mehwish Irfan Poshni	Genus Distributions of Graphs under self-edge amalgamation
3.	Imran Farid Khan	Genus Distributions of Graphs under self-edge amalgamation
4.	M. Akram and Al-Shehrie	Bipolar fuzzy Lie Ideals
	M. Akram and B. Davvaz	strong intuitionistic fuzzy graphs
	W. Chen, M. Akram & Guan Y.	Intuitionistic fuzzy subcoalgebras
	Akram M. and W. Chen	Generalized anti fuzzy Lie algebras Utilitas
	Chen, W. and M. AKRAM	Fuzzy subcoalgebras and Fuzzy Subcomodules
	Chen, W. and M. AKRAM	Anti Fuzzy Structures on Graphs
	Lin Y., Akram M. and Zhan	Characterization of regular ordered semigroups in terms of new fuzzy ideals
	LI, H., Akram M. and Yin, Y	R-valued ideals of ordered hemirings
	Akram M., Karunambigai, M.G. and Kalaivani O.K	Some metric aspects of intuitionistic fuzzy graphs
5.	M. Shahid Farid et. Al	An image composition algorithm for handling global effects
6.	M. Shahid Farid et. Al	A Parallel Algorithm for Change Detection
7.	M. Kamran Malik	Impact of Domestic & External Debt on the Economic Groth of Pakistan

SCHOOL OF PHYSICAL SCIENCES

• **Research & Development – An Overview**

School of Physical Sciences contains state of the art equipments in the field of physical, biochemical and molecular sciences placed at SPS building and list of this equipments is following:-

- X-Ray Diffractometer, HPLC system, PCR machine, Gas Chromatograph, Food and Beverage Analyzer, CHNS Analyzer, Gel electrophoresis system for DNA and Proteins, Temperature controlled incubators, Keithley Semiconductor Characterization System, Precision Impedance Analyzer, Automatic Weather Station, UV Spectrophotometer, Rotatory Evaporator, High speed centrifuge and Karlfisher titration analyzer, Gerhardt Kjeldatherm Digestion system and Vapodest distillation titration system.
- Above equipments are available for the researchers to carry out research in their designated fields. Standard Operating Procedures have been prepared to use these equipments.

• **Publications**

- M. N. Arshad, I. U. Khan, M. Zia-ur-Rehman, S. A. Ahmad & H. M. Rafique Methyl 4-hydroxy-2-methoxycarbonylmethyl-1,1-dioxo-1,2-dihydro-1 λ 6,2-benzothiazine-3-carboxylate. *Acta Cryst. E*, 67, o2527 (2011).
- Muhammad Nadeem Arshad, Islam Ullah Khan, K. Travis Holman, Abdullah M. Asiri and H. M. Rafique , N-(2-Bromophenyl)-4-methyl-N-(4-methylphenylsulfonyl) benzenesulfonamide, *Acta Cryst. E*, 67, o2356 (2011).
- Muhammad Nadeem Arshad, Islam Ullah Khan, Muhammad Zia-Ur-Rehman, H M Rafique, K Travis Holman, Methyl 4-hydroxy-2-isopropyl-1,1-dioxo-2H-1,2-benzothiazine-3-carboxylate, *Acta Cryst. E*, 67, o1823-4 (2011).
- M. N. Arshad, I. U. Khan, H. M. Rafique, A. M. Asiri and M. Shafiq, 2-Chloro-4-(2-iodo-benzenesulfonamido)-benzoic acid, *Acta Cryst. E*, 67, o1327 (2011).
- Muneeb Hayat Khan , Islam Ullah Khan , Muhammad Nadeem Arshad , H. M. Rafique and William T. A. Harrison, Structures of Benzenesulfonylamino-3-(4-benzenesulfonyloxyphenyl)-propionic acid and 2-(toluene-4-sulfonylamino)-3-[4-(toluene-4-sulfonyloxy)-phenyl]-propionic acid: Variations in L-tyrosine Backbone Conformation, Intramolecular Aromatic π - π Stacking and Short C-H...O Interactions, *Crystals*, 1, 69(2011).

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

School of Physical Sciences has organized different conferences and workshops in collaboration with ORIC and details are given below:

- 1st Training for young Researchers/Students on HPLC on November 10th, 2012.
- 2nd Training for your Researchers/Students on PCR Technology on 2nd February, 2013.
- 3rd Training for young Researchers/Students on HPLC on March 30th, 2013.

These workshops were attended by scientists and students from different Universities which included:

- University of the Mansehra, KPK.
- University of Faisalabad.
- Lahore College University, Lahore.
- Kinnaird College, Lahore.
- GCU, Lahore.
- University of the Punjab, different departments.

RESEARCH COLLABORATION

• Indigenous

School of Physical Sciences has developed research collaborations with scientific community of different other organization which included:

- University of the Punjab different Departments.
- University of Health Sciences, Lahore.
- University of Education, Lahore.

PUNJAB UNIVERSITY GUJRANWALA CAMPUS

• Research & Development – An Overview

- The faculty members at the Gujranwala Campus have got their seven papers published in national and international journals and they also participated in one national and international conferences.

• Publications

- Mr. Muhammad Mudasar Ghafoor, Ali Usman, Rizwan Qaiser Danish, “Impact of motivation to Learn, Organizational Commitment and Job Satisfaction on Organizational Learning Culture”, (2011), Business and Management Quarterly Review, 2(3), 108-115, ISSN, 2180-2777.
- Prof. Dr. Muhammad Ehsan Malik, Muhammad Mudassar Ghafoor, Rabia Ali and Rizwan Qaiser Danish, “Perception of Psychology : Moderation Role of Age on Relationship Between Job Climate, Extrinsic Rewards and Job Satisfaction”, (2011), World Applied Science Journal, Vol. 13, Number 6, 1367-1374.
- Muhammad Mudassar Ghafoor, “Role of Demographic Characteristics on Job Satisfaction”, (2012), Forest Journal of Psychology and Business, Vol.6, No.1, 30-45.
- Muhammad Mudassar Ghafoor, “Antecedents of Job Satisfaction: Evidence from Pakistani Universities”, World Applied Science Journal, Accepted 08.03.2012 Indexing: ISI and Scopus.
- S. Naseer S R Choudhary “LR WPAN Topologies Formation Using Zig Bee” Published in IJCSI (International Journals of Computer Science Issues. Volume 6 issue 8 Nov. 2011)” <http://www.ijcsi.org/issues.php>
- U.Asghar, S. Haider, S. Naseer, O. Ateeb” A study of the Novel Approaches Used in Intrusion Detection and Prevention Systems” Published in International Journal of Information and

Education Technology (IJET) volume 1 number 5 page number 426 December 2011
<http://www.ijet.org/papers/70-R056.pdf>

- S. S. Naseer, S.A. Hussain, I Raza, S.R. Choudhary, J.S. Mirzal M.H. Raza “Mobile Ad-hoc Network Routing Protocols: A Simulation and Performance Analysis Using Basic and applied Science Research. [http://www.textroad.com/pdf/JBASR/J.%20Basic.%20Appl.%20Sci.%20Res,%202\(10\)9925-9930,%202012.pdf](http://www.textroad.com/pdf/JBASR/J.%20Basic.%20Appl.%20Sci.%20Res,%202(10)9925-9930,%202012.pdf)
- **Conferences, Seminars and Workshops etc.**
 - Sulman Naseer, Lecturer presented a Paper “A survey on intrusion detection and prevention techniques” in international conference ICICM 2011 Singapore.” [http://www.ipcsit.com/vo116/13-ICICM2011 M 035.pdf](http://www.ipcsit.com/vo116/13-ICICM2011%20M%20035.pdf)
 - Prof. Dr. Mr. Muhammad Ehsan Malik, Muhammad Mudassar Ghafoor, Hafiz Kashif, Leadership and Personality Traits as Antecedents of Organizational Citizenship Behavior (OCB) in Banking Sector of Pakistan” accepted for presentation at the EBES 2012 Istanbul Conference. The Conference was held on May 24th. 25th. & 26th. 2012 at the Taksim Nippon Hotel, In Istanbul Turkey.

PUNJAB UNIVERSITY JHELM CAMPUS

- **Publications:**
 - Research Paper on "Effects of Motivational Factors on Teacher Job Satisfaction: A Study of public sector degree Colleges of Punjab" by Muhammad Nadim Lecturer Punjab University Jhelum Campus.
 - Research Paper on "Market efficiency in its weak forms: Evidence from Karachi Stock Exchange of Pakistan" by Muhammad Nadim Lecturer Punjab University Jhelum Campus