Institute of Energy and Environmental Engineering

Faculty of Electrical, Energy and Environmental Engineering

University of the Punjab

Prospectus
Fall-2026


بسم الله الرحمن الرحيم

CONTENTS

Message from Worthy Vice-Chancellor

Being the largest and the oldest varsity in Pakistan, University of the Punjab was established in historically and culturally alive city of Lahore in 1882 and since then it has provided conducive environment to the students for achieving academic excellence. University happens to be the first choice for seeking admission because of quality degrees, manageable tuition fees and amiable environment. University is committed to generate new knowledge at technological forefronts and produce adequately skilled manpower in cutting edge technologies required by indigenous industries. Institute of Energy & Environmental Engineering (former Centre for Coal Technology) has already acquired excellence in terms of providing manpower and technical expertise to local coal-based industries, which can be evidenced from the fact that 89% of graduates are serving in indigenous industry as well as abroad including power generation, cement production and chemical industries.

Institute of Energy & Environmental Engineering has been upgraded from the Centre for Coal Technology through the Planning Commission grant of Rs. 976.53 Million. This Institute is on its way to become the leading academic Institution of Pakistan in the field of Energy & Environmental Engineering, as the proposed courses and majority of the approved equipment do not exist anywhere in Pakistan. A number of programs will be offered in disciplines of energy engineering, petroleum and gas processing engineering, environmental engineering, energy economics and policy, environmental law, energy auditing and conservation. It will not only provide professional engineers and technologists to the country in these areas but also provide policy guidelines to the Government in Energy, Economic, Strategy, Energy Security and Climate Change. Additionally, the institute will be able to payback its economic cost within 10-12 years and thousands of trained professionals, engineers, scientists, research innovation, savings through indigenous solutions, consultancy to the Government & Private Enterprises and pollution control are free of cost expected dividends of the project.

The Institute is being run under the Faculty of Engineering and Technology. The faculty comprises of Institute of Chemical Engineering & Technology, College of Engineering & Emerging Technologies, Institute of Quality and Technology Management and Department of Textile Engineering which offer various engineering courses at graduate and post-graduate levels.

The University is committed to provide best possible facilities in terms of faculty staff, laboratories, libraries and environment for R&D activities leading to higher degrees. I hope that the talented candidates will be joining the engineering degree courses with the strong commitment to keep up the tradition of this Institution and help maintain the flag of the University high in the sky.

Prof. Dr. Muhammad Ali (T.I & S.I)
VICE CHANCELLOR

Message from the Director of the Institute

This Institute was established as Centre for Coal Technology with the funds worth of Rs. 13.408 million and Rs. 34.390 million in the years of 2004 & 2006 from HEC and further upgraded with HEC grant of Rs. 182.79 million in the year 2015. Later, this Centre was then transformed into Institute of Energy & Environmental Engineering in 2020, under PSDP project entitled as, "Strengthening and Upgradation of Academic and Research Programs at University of the Punjab" with the grant of Rs. 976.530 million. This Institute can be claimed as one of the leading Institutes of Energy Engineering in South Asia offering state of the art analytical and pilot scale experimental facilities under one roof and having strongest vibrant faculty.

The Institute is providing technical feasibility expertise to the Government of Punjab for the establishment of more than 15 power projects at national level. In addition to evaluation of technical feasibility studies, the Institute is providing testing facilities to more than 200 local industries. The Institute is also providing free consultancy services to the private enterprises for, Gasification, Coal cleaning/Coal fired electricity generation/Domestic utilization of coal, Substitution of furnace oil/natural gas by coal in the industrial sector, transfer of technology from the developed/developing countries to Pakistan, spread of knowledge, experience and skill to the public within the country by integrating results on indigenous energy sources.

The Institute has planned to launch academic programs of BSc (Engg.) Energy Engineering, BSc (Engg.) Petroleum & Gas Processing Engineering, BSc (Engg.) Environmental Engineering, MSc Energy Economics & Policy, PhD Energy Engineering, Certificate Courses in Energy Auditing & Conservation, International Certificate Courses in Industrial Environment Auditing, in addition to already running programs of M.Sc. Coal Technology, M.Phil. Coal Technology, MSc (Engg.) Energy and Environmental Engineering programs

With the successful launch of these programs, the Institute would then produce highly skilled and trained manpower in the disciplines of energy engineering, petroleum and gas processing engineering, environment engineering, energy economics and policy, environmental law, energy auditing and conservation. It will not only provide professional engineers and technologists to the country in these areas but also provide policy guidelines to the Government in Energy, Economics, Strategy, Energy Security and Climate Change.

Prof. Dr. Hamed Sattar
DIRECTOR

Highlights of Institute of Energy & Environmental Engineering

1. FACULTY

Professors

1. Dr. Shahid Munir *(CHEM-4667)*
(On deputation serving as Vice Chancellor-UET, Lahore)
Vice Chancellor University of Engineering and Technology, Lahore
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, MBA
Ph.D. (University of Leeds, UK), P.E.

2. Dr. Mahmood Saleem *(CHEM-2544)*
Ex-Vice Chancellor Mir Chakar Khan Rind University of Technology, Dera Ghazi Khan
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (Graz University of Technology, Austria), P.E.

3. Dr. Hamed Sattar *(CHEM-4669)*
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (University of Leeds, UK), P.E.

4. Dr. Syed Sheraz Daood (CHEM-4668)
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (University of Leeds, UK), P.E.

Assistant Professors

5. Dr. Rizwan Haider
M.Sc. Coal Technology
Ph.D. Biotechnology (QAU/NIBGE)
Post Doc (University of Wyoming, USA)

6. Dr. Hassan Zeb *(CHEM-7001)*
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
PhD (Sungkyunkwan University, South Korea), R.E.

7. **Dr. Muhammad Sarfraz Akram *(CHEM-7062)***
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, MBA
Ph.D. (University of the Punjab, Pakistan), R.E.

8. **Dr. Muhammad Zafar *(CHEM-6612)***
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (Chonnam National University, South Korea), R.E.

9. **Dr. Zaeem Bin Babar *(CHEM-10230)***
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (Kyungpook National University, South Korea), R.E.

10. **Dr. Tausif Ahmad (*CHEM/9154*)**
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering
Ph.D. (Universiti Teknologi Petronas, Malaysia), R.E.

11. **Dr. Aqeel Afzal (CHEM/08021)**
B.Sc. Chemical Engineering
M.Phil. Coal Technology
Ph.D. (Kyungpook National University, South Korea), R.E.

12. **Dr. Osama Majeed Butt (*ELECT-47413*)**
B.Sc. (Engg.) Electrical Engineering
M.Sc. (Engg.) Electrical Engineering
Ph.D. (Universiti Malaya, Malaysia), R.E.

13. **Dr. Hamna Asad**
B.Sc. Mathematics
M.Phil. Mathematics
Ph.D. (University of the Punjab, Pakistan)

Lecturers

14. Engr. Iqra Aziz (CHEM-18809)
(On Study leave)
B.Sc. (Engg.) Chemical Engineering
M.Phil. Coal Technology, R.E.

15. Engr. Abuzar Ahsan (CHEM-11878)
(On Study leave)
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, R.E.

Lab Engineers

16. Engr. Muhammad Saif Ullah (ELECT-38090)
B.Sc. (Engg.) Electrical Engineering,
M.Sc. (Engg.) Energy & Environmental Engineering, R.E.

Research Associates

17. Hafiz Usama Qureshi (*CHEM-16684*)
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, R.E.

18. Engr. Faisal Raza (*CHEM-09488*)
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, R.E.

19. Engr. Abdul Rauf (*CHEM-16546*)
B.Sc. (Engg.) Chemical Engineering
M.Sc. (Engg.) Chemical Engineering, R.E.

2. APPROVED ACADEMIC PROGRAMS

Sr. No.	Degree Program	Duration
1	B.Sc. (Engg.) Energy Engineering (Regular and Self-Supporting)	4 years
2	M.Sc. (Engg.) Energy & Environmental Engineering (Self-Supporting/Evening)	2 years
3	M.Sc. (Engg.) Sustainable Engineering (Self-Supporting/Evening)	2 years
4	Ph.D. (Engg.) Energy and Environmental Engineering (Regular)	4 years

2.1 Washington Accord and Outcome Based Education (OBE) system

Pakistan Engineering Council (PEC) signed Washington Accord in 2017 which is an international agreement between bodies that are responsible for accrediting the Engineering Degree Programmes in their respective signatory countries. It is a globally recognized standard of engineering education and accreditation system. It grants equivalence of degrees at an international level which aims to benefit engineers with mobility across borders. Institute of Chemical Engineering and Technology has implemented Outcome Based Education System as per requirements of Washington Accord. This opens gates for our graduates to be of the same value as in the developed countries. Under OBE system the students get opportunity to go through a world class learning experience focused on 12 engineering attributes which transforms a student into a professionally trained human resource with ethical values.

2.2 Vision of University

"University of the Punjab intends to be a leading public university in providing affordable educational opportunities to develop scientific, socio-cultural, economic and political leadership, through learner-centered teaching and research, while strengthening our identity at National and International level."

2.3 Mission of the University

"Our mission is to provide a holistic education as such an approach has a two-fold benefits. The first is that young people are nurtured to be sensitive, tolerant, humane and capable of thinking in a creative and critical way. The second is, that armed with a sense of history and equipped with knowledge and expertise, the graduates whom we send out into the world are in a better position to develop their leadership potential and make a positive contribution to the public life. We hope that understanding as they do, their role in the wider community of human-kind and responsible to it, their action and attitudes will reflect their education."

2.4 Vision of the Institute

To be a world class engineering institute in the domain of energy and environment recognized for excellence in education, innovation and entrepreneurship leading to sustainable development of the society.

2.5 Mission of the Institute

The mission of the Institute is, to provide a high-quality learning experience to produce Energy & Environmental Engineers to meet the human resource needs of the country, and to develop technical skills in design, synthesis, optimization and operations that will equip graduates in assuming leadership positions in industry, education, research and services.

2.6 Program Educational Objectives (PEOs)

The program of Energy Engineering will achieve the following PEOs;

PEO1: Apply engineering knowledge to identify and address the technical and societal problems.

PEO2: Develop innovative ideas for technological and professional growth in the field of energy engineering.

PEO3: Work effectively as a team member as well as lead multidisciplinary teams while demonstrating the interpersonal and management skills by fulfilling ethical responsibilities.

B.Sc. (Engg.) Energy Engineering

3. B.Sc. (ENGG.) ENERGY ENGINEERING

3.1 Admission Rules

3.1.1 Eligibility

a. F.Sc. Pre-Engineering/Pre-Medical/ICS(1) /Relevant DAE(II) /A- Level (III) or equivalent with minimum 60% aggregate

b. Score of Entry Test conducted for the year 2025 with minimum 33% passing marks(IV)

Domicile: Punjab

Passing years:

The applicant must have passed F. Sc. Pre-Engineering/ICS/Relevant DAE/ A-Level or equivalent examination passing years 2023, 2024 & 2025.

Age:

Maximum at the age of 24 years at the time of admission closing date

Merit Formula:

Academic Record: 67%

Entry Tests: 33%

Additional Marks:

Hafiz-e-Qur'an: 20 Marks

(Subject to the verification)

(I) ICS:

A combination of Physics, Mathematics and Computer Studies/ Computer Science (PEC/EAD/46-VCCM/Regulations/2023 dated March 30th 2023). The candidate will have to pass additional Chemistry subject in zero semester.

(II) Relevant DAE:

Diploma of Associate Engineer (DAE) in Automation, Chemical, Electrical, Electronics, Mechanical (Power), Mechatronics, Petroleum & Gas, Power, Radar, Telecommunication, Vacuum

*The DAE categories are as per PEC:
https://pec.org.pk/wp-content/uploads/2022/08/DAEs-List-106-EAB-1_compressed.pdf

(III) A-Level:

F.Sc. Pre-Engineering/Pre-Medical/ICS Equivalence Certificate issued by IBCC.

(IV) Entry Test:

Entry Test conducted by UET Lahore E-CAT, or NUST Engineering Entry Test or PU-E/ PU-M/PU-CSP (PEC//EAD/46-VCCM/Edu.Policy/2023 dated 30th March 2023).

NOTE: *The provisional admissions of BS 1st Semester will be made on the basis of the result of the Intermediate Part-I. In case of failure to meet the eligibility criteria mentioned above in the Intermediate Part-II examination, the provisional admission made in 1st Semester shall automatically be cancelled. Rules and directions as approved by PEC shall apply.*

3.1.2 For Admission on F.Sc. Basis

In addition to fulfilling the general eligibility conditions as given in 3.1.1, an applicant seeking admission to B.Sc. (Engg.) must have passed the F.Sc. (Pre-Engineering) Examination from any recognized Board of Intermediate & Secondary Education of Pakistan or any other examination considered equivalent thereto by the Punjab University. The candidate with A-level qualification must submit O-level and A-level equivalence certificates from the Inter Board Committee of Chairmen (IBCC), Islamabad.

An applicant must have obtained at least 60% marks (excluding Hafiz-e-Quran) either in Intermediate Examination or on the basis of Aggregated Marks Percentage calculated as given below:

$\mathbf{A} = \left[\frac{(Marks\ Obtained\ in\ F.Sc.\ or\ equivalent\ examination) + (Hafiz\text{-}e\text{-}Quran)^{*}}{1100} \right] \times 70$	
$\mathbf{T} = \left[\frac{\text{Marks Obtained in Entry Test}}{400} \right] \times 30$	**Aggregated Marks Percentage = A + T**

* 20 marks for Hafiz-e-Quran, if applicable, will be added as shown above.

For the 2020-21 Admissions regarding merit determining position, Aggregated Marks Percentage for the all the candidates (2018, 2019 and 2020) will be calculated as given below:

$\mathbf{A} = \left[\frac{(\text{Marks Obtained in F.Sc. Part I}) + (\text{Hafiz - e - Quran})^{*}}{520} \right] \times 70$	
$\mathbf{T} = \left[\frac{\text{Marks Obtained in Entry Test}}{400} \right] \times 30$	**Aggregated Marks Percentage = A + T**

* 20 / (1100/520) marks for Hafiz-e-Quran, if applicable, will be added as shown above.

For Admission on O/A level Basis:

Aggregated Marks Percentage for the all such candidates (2018, 2019 and 2020) will be calculated on basis of O level result as given below:

$\mathbf{A} = \left[\frac{(\text{Equivalanc e Marks Obtained in O Level}) + (\text{Hafiz - e - Quran})^{*}}{1100}\right] \times 70$	
$\mathbf{T} = \left[\frac{\text{Marks Obtained in Entry Test}}{400}\right] \times 30$	**Aggregated Marks Percentage = A + T**

* 20 marks for Hafiz-e-Quran, if applicable, will be added as shown above.

3.1.3 Procedure for Application

Application filled and generated online must be accompanied by the following:

1. Photocopies of the following documents:
   (i) Matriculation certificate
   (ii) F.Sc./Diploma or equivalent certificate (as the case may be)
   (iii) Photocopy of the result of Pre-Admission Combined Entry Test conducted by UET, Lahore for the current session.
   (iv) Character certificate
   (v) Domicile certificate
   (vi) Hafiz-e-Quran certificate (if any): The candidate should produce a certificate from a well-established Institution to the effect that he/she is a Hafiz-e-Quran. Moreover, the Faculty shall interview the candidate and make sure that he/she had learnt the Holy Quran by heart and can recite it from whatever portion he/she is required to recite.
   (vii) Migration certificate (in case the applicant has passed F.Sc. examination from a Board/University other than Board of Intermediate and Secondary Education, Lahore; Punjab University.
   (viii) Medical fitness certificate (on prescribed form) from registered Medical Practitioner to be submitted at the time of admission.

2. One 1.5” x 1.5” size latest photograph (to be affixed on the form).

Application incomplete/not submitted within due time in the said office of the Faculty will not be entertained. General waiting list along with list of the selected candidates for each course will be displayed on the university website only.

3.1.4 Allocation of Seats for admission to the B.Sc. (Engg.) First Semester on open academic merit

Proposed Strength = 50 Students
One Batch per year in Fall Session

3.1.5 Allocation of Reserved Seats (Regular Program)

Sr. No.	*Reserved Seats	Number of Seats
**1.	Foreign students (whose names are recommended by the Ministry of Education Govt. of Pakistan, according to the prescribed procedure). Foreign students are exempted from the Entry Test.	1
***2.	Children/spouses/real brothers or sisters/nephews or nieces (in this order of priority) of the Punjab University Employees, serving or retired, with a service of not less than 5 years. The selection shall be made according to academic merit from amongst the eligible candidates against this category of seat. (2.5%)	1
***3.	Children/spouses/real brothers or sisters/nephews or nieces (in this order of priority) of the Punjab University Teachers, serving or retired (excluding teachers on deputation/part-time teachers) with a service of not less than 5 years. The selection shall be made according to academic merit from amongst the eligible candidates against this category of seat. (2.5%)	1
4.	Son/Daughter of martyrs of Army, War disabled, serving and retired Army personnel subject to the recommendation/certificate by a relevant body. A certificate of martyrdom issued by the G.H.Q Adjutant General Branch should be attached along with the recommendation letter. (1%)	1
!5.	Special (Disabled) persons (blind/physically handicapped) on humanitarian grounds (to be approved by the Vice-Chancellor after a case has been made out by the Chairman of the Department and is supported by Dean, of the Faculty concerned and the Committee constituted for this purpose).	1
▲6.	Nominees of Azad Kashmir Government	1
▲7.	Nominees of the Balochistan Government	1
▲8.	Nominees of the Khyber Pakhtunkhwa (KPK) Government	1
◙9.	Outstanding Sports Persons. (Selected on the recommendations of the special committee appointed by the Vice-Chancellor for the said purpose).	1
┬10.	Overseas Pakistanis (Son & Daughter only). These students will pay fee applicable to the Foreign students (Self Financing Scheme). **Note:** (1) Overseas Pakistani Seats are not convertible in any category of reserved/merit seats. (2) The students selected on Overseas Pakistani Seats will pay 1000 US$ per year in addition to the normal dues.	2
11.	Outstanding Sports Persons. (Selected on the recommendations of the Special Committee appointed by the Vice-Chancellor for the said purpose). 1%	1
	Total	12

* *The candidates must have qualified the relevant examination in current Spring Examination and examination (Annual/Supplementary) of the previous two years and fulfill age limit mentioned at 2.1(a).*

** *Application be addressed to the concerned Agency/Quarter where from it will be sent to the Faculty of Engineering & Technology (within due date). Vice-Chancellor may permit the admission of more eligible foreign applicants on the recommendations of Convener Admission and Chairman/Principal/Director Teaching Department/Constituent College/Institute.*

*** *Children of the University employees (teachers and others) must apply on a separate Application Form (in case they also desire to compete against academic merit seats) and submit a service certificate of their parents from the Registrar of the University of the Punjab.*

! *Eligibility shall be determined by the Disability Committee/Chief Medical Officer of the University of the Punjab.*

▲ *Application be addressed to the concerned Agency/Quarter where from it will be sent to the Convener Admission, Faculty of Engineering & Technology (within due date).*

◙ *Candidates seeking admission against seats reserved for sports must apply on a separate Application Form (in case they also desire to compete on academic merit) and attach copies of the relevant certificates.*

┬ *The following documents are required for Overseas Pakistanis:*

(a) A certificate on Form (available on the website http//pu.edu.pk/page/downloads) regarding his parent's employment in a foreign country issued by the Pakistani embassy in that country.

(b) A photocopy of his/her parent's resident visa for that country attested by the Pakistani Embassy.

The selection shall be made according to academic merit from amongst the eligible candidates against this Category of seat.

3.2 Fee Structure

3.2.1 Regular Program

Sr. No.	Particulars of Receipt/Head of Accounts	Semester							
		I	**II**	**III**	**IV**	**V**	**VI**	**VII**	**VIII**
1	Tuition Fee*	525	525	525	525	900	900	900	900
2	Admission Fee	300	300	300	300	300	300	300	300
3	Library Service	400	400	400	400	400	400	400	400
4	Identity Card	--	--	--	--	--	--	--	--
5	Breakage Fee	500	500	500	500	500	500	500	500
6	Field Work/Studies Tour	500	500	500	500	500	500	500	500
7	Electricity Charges	910	910	910	910	910	910	910	910
8	P.U. Medical Fee	175	--	175	--	175	--	175	--
9	Bus Pass Charges	1990	1990	1990	1990	1990	1990	1990	1990
10	University Registration Fee**	3720	--	--	--	--	--	--	--
11	Examination Fee	9487	9487	9487	9487	9487	9487	9487	9487
12	Result Notification Fee	100	100	100	100	100	100	100	100
13	Mosque Fund	50	--	50	--	50	--	50	--
14	Students General Fund	125	--	125	--	125	--	125	--
15	Department Society Fee	910	910	910	910	910	910	910	910
16	P.U. Internet Facility	725	--	725	--	725	--	725	--
17	PUSTC/PUWSTC Fee	500	--	500	--	500	--	500	--
18	Sports Fund (PUTDSA)	200	--	200	--	200	--	200	--
19	Sports Development Fund	200	--	200	--	200	--	200	--
20	PU Development Fund	500	--	--	--	--	--	--	--
21	PU Library Security	2000	--	--	--	--	--	--	--
22	Department Development Fund	7500	7500	7500	7500	7500	7500	7500	7500
	Total	**31317**	**23122**	**25097**	**23122**	**25472**	**23872**	**25472**	**23872**

The candidates, selected on the category of OVERSEASE PAKISTANI, should pay 1000 US$ in addition to the normal dues.

****Only for those candidates who are not already registered with University of the Punjab.***

Note:

I. In addition to above dues, document verification fee Rs. 500/- will be charged once from the admitted candidate along with the dues for the first semester towards the verification of his/her documents from the respective Board/University.

II. University reserves the right to revise any of the above-mentioned amounts as and when deemed necessary.

3.2.2 Self-Supporting Program

Sr. No.	Particulars of Receipt/Head of Accounts	Semester							
		I	**II**	**III**	**IV**	**V**	**VI**	**VII**	**VIII**
1	Tuition Fee	39700	39700	39700	39700	39700	39700	39700	39700
2	Admission Fee	300	300	300	300	300	300	300	300
3	Library Service	400	400	400	400	400	400	400	400
4	Identity Card	--	--	--	--	--	--	--	--
5	Breakage Fee	500	500	500	500	500	500	500	500
6	Field Work/Studies Tour	1000	1000	1000	1000	1000	1000	1000	1000
7	Electricity Charges	910	910	910	910	910	910	910	910
8	P.U. Medical Fee	175	--	175	--	175	--	175	--
9	Bus Pass Charges	1990	1990	1990	1990	1990	1990	1990	1990
10	University Registration Fee*	3720	--	--	--	--	--	--	--
11	Examination Fee	9487	9487	9487	9487	9487	9487	9487	9487
12	Result Notification Fee	100	100	100	100	100	100	100	100
13	Mosque Fund	50	--	50	--	50	--	50	--
14	Students General Fund	--	--	--	--	--	--	--	--
15	Department Society Fee	--	--	--	--	--	--	--	--
16	P.U. Internet Facility	970	--	970	--	970	--	970	--
17	PUSTC/PUWSTC Fee	500	--	500	--	500	--	500	--
18	Sports Fund (PUTDSA)	200	--	200	--	200	--	200	--
19	Sports Development Fund	200	--	200	--	200	--	200	--
20	PU Development Fund	500	--	--	--	--	--	--	--
21	PU Library Security	2000	--	--	--	--	--	--	--
22	Department Development Fund	1500	1500	1500	1500	1500	1500	1500	1500
23	Student Welfare Fund	500	--	500	--	500	--	500	--
	Total	**64702**	**55887**	**58482**	**55887**	**58482**	**56262**	**58482**	**56262**

Only for those candidates who are not already registered with University of the Punjab.

Note:

I. In addition to above dues, document verification fee Rs. 500/- will be charged once from the admitted candidate along with the dues for the first semester towards the verification of his/her documents from the respective Board/University.

II. University reserves the right to revise any of the above-mentioned amounts as and when deemed necessary.

3.3 Program Structure

Scheme of Studies / Semester-wise workload

Semester I							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 111	Sources of Energy	EngineeringFoundation	Nil	2	0	2
II	NS 112	Applied Physics	Natural Science (Physics)	Nil	2	1	3
III	NS 113	Linear Algebra and Applied Statistics	Natural Science(Maths)	Nil	2	0	2
IV	NS 114	General Chemistry	Natural Science (Chemistry)	Nil	2	1	3
V	CS 115	Applications of Information and Communication Technologies	Computer Sciences	Nil	2	1	3
VI	HU 116	Functional English	Humanities(English)	Nil	3	0	3
VII	HU 117	Islamic Studies/Ethics*	Humanities(Culture)	Nil	2	0	2
VIII	HQ 001	Understanding of Holy Quran/Fehm-e-Quran-I**	Humanities	Nil	0	0	0
				Total Credit Hours	**15**	**3**	**18**

Semester II							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 121	Energy Engineering Principles and Calculations-I	EngineeringFoundation	Nil	3	0	3
II	EE 122	Engineering Thermodynamics	EngineeringFoundation	Nil	3	1	4
III	MDE 123	Workshop Practice for Engineers	Multi-disciplinary Engineering Course	Nil	0	1	1
IV	NS 124	Calculus and Analytical Geometry	Natural Science (Maths)	Nil	3	0	3
V	NS 125	Applied Chemistry	atural Science(Chemistry)	NS 114	2	0	2
VI	CS 126	Computer Programming	Advanced Computer and InformationSciences	Nil	2	1	3
VII	HU 127	Ideology and Constitution of Pakistan	Humanities(Culture)	Nil	2	0	2
VIII	HQ 002	Understanding of Holy Quran/Fehm-e-Quran-II**	Humanities	Nil	0	1	1
	Et 001	Ethics (Bible-I/Geeta-I)***					
				Total Credit Hours	**15**	**4**	**19**

Semester III							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 211	Heat and Mass Transfer	Engineering Foundation	Nil	3	1	4
II	EE 212	Engineering Materials	Engineering Foundation	Nil	2	0	2
III	EE 213	Fluid Mechanics	Engineering Foundation	Nil	3	1	4
IV	EE 214	Energy Engineering Principles and Calculations-II	Major Based Core (Breadth)	EE 121	3	0	3
V	NS 215	Applied Differential Equations	Natural Science (Maths)	NS 124	3	0	3
VI	HU 216	Social Science Elective	Humanities (Social Science)	Nil	2	0	2
	HU 216-A	Industrial Psychology and Sociology					
VII	HQ 003	Understanding of Holy Quran/Fehm-e-Quran-III**	Humanities	Nil	0	0	0
				Total Credit Hours	**16**	**2**	**18**

Semester IV							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 221	Basic Electrical Circuits and Network Analysis	Engineering Foundation	NS 112	2	1	3
II	EE 222	Fluid and Particle Mechanics	Major Based Core (Breadth)	EE 213	3	0	3
III	EE 223	Combustion Engineering	Major Based Core (Breadth)	EE 214	3	0	3
IV	EE 224	Solid Fuel Processing	Flexible Engineering Course	Nil	3	1	4
V	NS 225	Numerical Analysis	Natural Science (Maths)	Nil	3	1	4
VI	HQ 004	Understanding of Holy Quran/Fehm-e-Quran-IV**	Humanities	Nil	0	1	1
	Et 002	Ethics (Bible-II/Geeta-II)***					
				Total Credit Hours	**14**	**4**	**18**

Semester V							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 311	Environmental Pollution Control	Engineering Foundation	Nil	2	0	2
II	EE 312	Liquid Fuel Engineering	Major Based Core (Breadth)	Nil	3	1	4
III	EE 313	Electrical Machines	Major Based Core (Breadth)	Nil	2	1	3
IV	EE 314	Elective - I	Major Based Core (Breadth)	Nil	2	0	2
	EE 314-A	Nuclear Energy					
	EE 314-B	Production and Operational Management					
	EE 314-C	Industrial Processes					
	EE 314-D	Internal Combustion Engines					
	EE 314-E	Clean Coal Technology					
	EE 314-F	Artificial Intelligence					
V	EE 315	Boiler Engineering and Power Plants	Major Based Core (Depth)	EE 122	3	1	4
VI	CS 316	Computer Aided Engineering Drawing	Advanced Computer and Information Sciences	Nil	2	1	3
VII	HQ 005	Understanding of Holy Quran/Fehm-e-Quran-V**	Humanities	Nil	0	0	0
				Total Credit Hours	**14**	**4**	**18**

Semester VI							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 321	Design and Management of Energy Systems	Major Based Core (Breadth)	EE 314	3	0	3
II	EE 322	Gas Process Engineering	Major Based Core (Breadth)	Nil	2	0	2
III	EE 323	Hydroelectric Power Engineering	Major Based Core (Depth)	Nil	2	1	3
IV	EE 324	Solar Power Engineering	Major Based Core (Depth)	Nil	2	1	3
V	EE 325	Wind Power Engineering	Major Based Core (Depth)	Nil	2	1	3
VI	HU 326	Expository Writing	Humanities (English)	HU 116	3	0	3
VII	HQ 006	Understanding of Holy Quran/Fehm-e-Quran-VI**	Humanities	Nil	0	1	1
	Et-003	Ethics (Bible-III/Geeta-III)***					
				Total Credit Hours	**14**	**4**	**18**

Semester VII							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	EE 411	Electrical Power Transmission, Distribution and Utilization	Major Based Core (Breadth)	EE 221	2	1	3
II	EE 412	Instrumentation and Process Control	Major Based Core (Depth)	Nil	3	1	4
III	EE 413	Elective II	Major Based Core (Depth)	Nil	2	0	2
	EE 413-A	Energy and Material Integration					
	EE 413-B	Power Electronics					
	EE 413-C	Environmental Engineering					
	EE 413-D	Hydrogen and Fuel Cells					
	EE 413-E	Heating, Ventilation and Air Conditioning					
IV	MS 414	Project Management	Management Sciences	Nil	2	0	2
V	EE 415	Final Year Design Project (Part I)	Final Year Design Project / Capstone	Nil	0	3	3
VI	HU 416	Arts & Humanities Elective	Humanities (Culture)	Nil	2	0	2
	HU 416-A	Professional Ethics					
VII	HQ 007	Understanding of Holy Quran/Fehm-e-Quran-VII**	Humanities	Nil	0	0	0
VIII	HU 417	Pakistan Studies	Humanities (Culture)	Nil	2	0	2
				Total Credit Hours	**13**	**5**	**18**

Semester VIII							
No.	**Code**	**Course Title**	**Knowledge Area**	**Pre-requisite**	**Lecture Credit Hours**	**Lab Credit Hours**	**Total Credit Hours**
I	MDE 421	Energy Conservation and Auditing	Multi-disciplinary Engineering Course	Nil	2	0	2
II	MDE 422	Health and Safety at Workplace	Multi-disciplinary Engineering Course	Nil	2	0	2
III	EE 423	Elective – III	Major Based Core (Depth)	Nil	3	0	3
	EE 423-A	Energy Statistics and Forecasting					
	EE 423-B	Power System Protection					
	EE 423-C	Bioenergy Engineering					
	EE 423-D	Geothermal and Tidal Energy					
	EE 423-E	Manufacturing Engineering					

IV	MS 424	Entrepreneurship	Management Sciences	Nil	2	0	2
V	EE 425	Final Year Design Project (Part II)	Final Year Design Project / Capstone	EE 415	0	3	3
VI	HU 426	Civics and Community Engagement	Humanities (Social Science)	Nil	2	0	2
VII	HQ 008	Understanding of Holy Quran/Fehm-e-Quran-VIII**	Humanities	Nil	0	1	1
	Et-004	Ethics (Bible-IV/Geeta-IV)***					
				Total Credit Hours	**11**	**4**	**15**
				Total Course Work Credit Hours (Semester I to VIII)			**142**

* For all non-Muslim students as an alternative to Islamic Studies

** Muslim students will study Understanding of Holy Quran in all eight semesters

*** Non-Muslim students will study Ethics as an alternative to Understanding of Holy Quran

5. GENERAL RULES AND REGULATIONS

5.1 For Undergraduate (4 years program)

i. There shall be two semesters in an academic year.
ii. Each semester will be of 18 working weeks: Sixteen weeks for teaching, one to two weeks for the conduct of examinations.

5.1.1 Course descriptions

Course contents, if revised, will be approved by the Board of Studies of the concerned department/faculty Board and Academic Council. The teachers concerned will be responsible for determining the details of the course. The Director/Chairman shall call the meeting of the teachers of the department for the purpose.

5.1.2 Course credits

i. A minimum 124 credits are required for the 4 Years degree program. The said credits shall normally be earned in eight semesters.
ii. The minimum number of contact hours in a course will be 15 per semester for one credit hour course.
iii. A course may range from one credit hour to four credit hours.
iv. One credit hour stands for at least one-hour class contact per week per semester. For practical/laboratory work 3 hours shall be considered equivalent to one credit hour.
v. Six (06) credit hours Research Project (dissertation) / project report / internship / special paper will be offered in the third and fourth years.

5.1.3 Class attendance

i. A student must have attended at least 75% of the classes held in a course in order to be allowed to sit in the final examination.
ii. In case of absence as a result of late admission, medical grounds or change of course, the teacher will give extra (make-up) materials to the student to compensate the deficiency because of said absence.
iii. In case the student remains absent from the class for seven consecutive lectures without leave his/her name shall be removed from the rolls.

5.1.4 Evaluation system

The weightage of the test and assignment/sessional work will be as follows:

(a) Mid Term (test) 35%
(b) Assignment 25%
(c) Final Term (test) 40%
(d) To pass a course a student must obtain 'D' grade (50% marks) Cumulative in Assignments, Mid and Final Semester Examinations.

5.1.5 Duration of Examinations

In view of the weightage for the various examinations, the duration of the papers will be as follows:

Term	Theory	Practical
Mid-Term Examination	One and half hour	As mentioned in the Timetable
Final Term Examination	Two hours	--

5.1.6 Home assignments

Home assignments shall be deposited with the teacher concerned as scheduled by the teacher.

5.1.7 Re-sit Examination on Medical Ground

In case a candidate is unable to appear in part or whole of the (Mid-Term/Final) Examination of a semester on medical grounds, he may be allowed to appear in the special examination (Mid-Term/Final) to be arranged by the Department/ Institute/College, provided;

i. He/She fulfils the condition of having attended the prescribed number of lectures as laid down in Regulation 8.1.3 (i & ii).
ii. He/She is admitted as patient in a recognized Hospital, or if he/she is not hospitalized, as defined above, the candidate will be examined by the University Medical Board comprising Chief Medical Officer and senior most Medical Officer of the University.

5.1.8 Grading System

1. Letter grading should only be used for representing the individual courses and not for semester GPA or CGPA.

2. Equivalence in letter grades and grade points will be as follows:

Letter Grade	Grade Points
A	4.00
A-	3.70
B+	3.30
B	3.00
B-	2.70
C+	2.30
C	2.00
C-	1.70
D	1.00
F	0.00

3. Maximum possible Grade Point Average is 4.00

4. Minimum Cumulative Grade Point Average is 2.00.

5. Calculation Grade Point Average (GPA) for a Semester.

    a. In order to calculate the GPA, multiply Grade Point with the Credit Hours in each course to obtain total grade points, add up to cumulative Grade Points and divide by the total number of Credit Hours to get the GPA for the Semester.
    b. Course with 'F' will be counted as 'Zero' Grade Point for calculation of semester Grade Point Average. Calculation of cumulative grade point average will only be made when a candidate has passed all the courses required for the award of degree.

6. The percentage of marks or values of grades other than given grade points should not be reported on the transcripts.

5.1.9 Rules for Promotions

1. At the end of the first Semester a student must obtain a minimum Grade Point average (GPA) of 2.00 to be promoted to the second semester.

2. In case a student is able to obtain GPA of 1.70 or more but less than 2.00 he /she will be promoted to the second Semester on probation (I^{st} probation). The candidate, who fails to secure 1.70 GPA in the first semester shall stand automatically dropped from the rolls of the Department /Centre/Institute/College.
3. At the end of second semester, a student must obtain a minimum Cumulative Grade Point Average (CGPA) of 2.00 and must also pass at least 50% of the courses offered; by him/her in order to be promoted to the third semester. If the student does not achieve desired CGPA 2.0 but obtain CGPA > 1.7 will go to 2^{nd} (last) probation.

4. In all the following semesters a student has to maintain CGPA 2.00 for his /her promotion otherwise he/she will be removed. If a student has not availed opportunity of probation during the first two semesters then he/ she will have the right to avail probation twice in the following semesters.

5. In the third semester a student will be required to repeat those courses of the first semester in which he / she had failed.

6. In the fourth, sixth and eighth semester, a student will be required to repeat those courses of the second, fourth, sixth and /or eighth semester in which he/she had failed.

7. If a student gets D grade, he/she can repeat the course when offered to improve his/her grade.

8. A student, who completes all the courses and has not been required to repeat any course(s), obtains CGPA of less than 2.00 but not less than 1.90 at the end of 8^{th} semester may be allowed to repeat course (varying from 2 to 4 credit hours) in which he / she had obtained the lowest grades, in order to improve the CGPA so as to obtain the minimum of 2.00 CGPA failing which he / she shall not be awarded degree and removed from the rolls of the Department /Centre / Institute / College.

9. In case a student repeats the course which he / she have already taken, the old grades will be substituted with the new grades for CGPA calculations.

10. A student will be allowed to repeat a maximum of 18 credit hours courses.

5.1.10 Calculation of Final Result

1. Minimum requirements for the award of 4 years B.Sc. (Engg.) Degree

   i. A candidate must have qualified in accordance with the existing Rules and Regulations in each one of the I, II, III, IV, V, VI, VII and VIII Semesters,

separately, i.e. by securing at least a 'D' in all course as to fulfill the requirements laid down in (ii) below:

ii. He/She must have earned the prescribed number of credits required for the 4 years degree i.e., a minimum of 132 credits.

iii. He/She must have obtained a minimum Cumulative Grade Point Average of 2.00

iv. He/She must have obtained 4-6 weeks industrial training.

2. Method for Calculation of the Final CGPA.

i. Add up Cumulative Grade Points of each semester to obtain grand total and then divide the grand total by total no. of credits of the courses studied. The resulting figures will represent the Cumulative Grade Point average secured by a candidate. The CGPA will be reported up to two decimals but for the determination of merit position CGPA will be calculated up to any decimal.

ii. The students obtaining CGPA of 3.70 or above will be declared eligible for role of honors

iii. For the award of Gold Medal or some other award(s), the Ist position will be calculated on CGPA basis of the whole course.

iv. For the award of Gold Medal, roll of honors and all other distinction of Punjab University, a student must have passed all the examinations at least in B Grade, in the first attempt.

6. HOSTEL ACCOMMODATION

The University of the Punjab provides hostel accommodation to a fairly large number of students. Placement in University hostels is arranged on a priority basis and only for regular students (not for self-supporting/evening programme) by the Chairman Hall Council, Quaid-e-Azam Campus, Lahore on the recommendation of the Head of Department.

7. MEDICAL FACILITIES

Services of the University Medical Officers are available to the students during working hours. The University maintains a Health Centre at the Campus where facilities for the treatment of outdoor patients exist. In case of serious illness and emergency, hospitalization can be arranged under the advice of the C.M.O./M.O. The University Medical Officer may conduct periodical check-up of the students.

8. SCHOLARSHIP FACILITIES

Various types of scholarships are available to the students of regular programs (Morning) not only to acknowledge the academic performance of the students but also to fulfill their financial needs. These scholarships include;

Merit Scholarships: These scholarships are awarded each year to the students.
Needy Scholarships: These scholarships are awarded each year to the students on the basis of their financial background. Students need to apply for these scholarships to appear before the scholarship committee.
PEEF Scholarships: These scholarships are awarded each year to the students on the basis of criteria set by the Punjab Government. These scholarships continue for the two years provided that the students maintain its required CGPA.

9. INDUSTRIAL TOURS

Students of the Faculty are provided an opportunity to enhance their technical knowledge and broaden their outlook by undertaking tours of factories located all over Pakistan. The expenditure of these tours is borne partly by the University.

10. FACTORY TRAINING

In order to gain practical experience in an industrial organization, job training is considered essential for the students. It also goes a long way in familiarizing the students with actual conditions in factories and various complex factors involved in their management and operation. Practical training for students is arranged by the Director / Principal / Chairman. The University shall not be responsible in the event of injury, damage or loss to the students during the course of attendance or training in or outside the University.

11. INSTITUTE'S ROLE IN BUILDING COMMUNITY

Under the guidelines of National Accountability Bureau (NAB), a Character Building Society (CBS) has been established which is actively arranging events on different occasions to provide healthy and positive environment among the students. The main objectives of the CBS are to create a resilient environment for the social evils like bribery, nepotism, favoritism, cheating and fraud by building an over mindset which has zero tolerance against these crimes.

The purpose of these societies is to provide students a platform where with the progression in their semesters, they could learn how to work as team member, independently, and as a team leader.

12. CO-CURRICULAR ACTIVITIES

Apart from academics, co-curricular activities for the students are regularly arranged at the Institute to inculcate social and intellectual skills, moral values, leadership qualities, personality progress and character demand. Highlights of a few recently conducted activities are discussed in next sections.

Annual Sports 2025

The Institute of Energy and Environment Engineering successfully organized Annual Sports Gala 2025 from February 21st to 26th, fostering a spirit of sportsmanship, teamwork, and healthy competition among students and faculty.

The gala was officially inaugurated by Prof. Dr. Mahmood Saleem, whose inspiring words emphasized the importance of physical activity, discipline, and camaraderie in academic and professional life.

The week-long event featured a diverse range of sporting activities, including:

- Faculty Competitions: A lighthearted yet competitive start with Teachers' Musical Chairs and Races, showcasing enthusiasm beyond the classroom.
- Student Tournaments: Both male and female students participated in various sports, such as:
- Cricket, Football, Volleyball (Team Sports)
- Badminton, Chess, Ludo (Individual & Strategy Games) Tug of War (A test of strength and coordination)

The event provided an excellent platform for participants to demonstrate their athletic skills while promoting unity, discipline, and perseverance.

The Annual Sports Gala 2025 concluded on a high note, celebrating the achievements of all participants. The institute extends its sincere gratitude to the organizers, volunteers, and participants for making this event a grand success. Such initiatives reinforce the importance of holistic development alongside academic excellence

Cultural Festival 2025

The Institute of Energy and Environmental Engineering came alive with colors, flavors, and traditions on February 26th, 2025, as it hosted its much-anticipated Annual Cultural Festival*. The event showcased Pakistan's rich cultural diversity, bringing together students, faculty, and staff in a vibrant celebration of heritage, creativity, and community spirit.

Event Highlights

- Cultural Stalls: Students from each semester set up beautifully decorated stalls, featuring traditional Pakistani cuisines, handicrafts, and cultural displays. Each stall reflected the unique essence of different regions, offering attendees a delightful sensory experience.
- Traditional Attire: Participants and visitors dressed in colorful cultural outfits, adding authenticity and charm to the festivities.
- Faculty Engagement: Respected faculty members, including Prof. Dr. Mahmood Saleem and Prof Dr. Hamid Sattar- director of institute of energy and environmental engineering, visited each stall, appreciating the students' efforts and enjoying the cultural presentations.
- Music & Performances: The atmosphere was enlivened with cultural music, creating a festive vibe that encouraged dancing and joyful interactions.
- Departmental Decor: The entire department was transformed with traditional-themed decorations, enhancing the immersive cultural experience.

A Memorable Conclusion

The Cultural Festival 2025 was not just an event but a testament to unity in diversity, fostering pride in Pakistan's heritage while strengthening bonds within the institute. The success of the festival was made possible by the enthusiastic participation of students, the guidance of faculty, and the hard work of organizers.

Event Name: Pakistan's Energy Future: Awareness, Action & Career Pathways
Date and Time: Wednesday, June 18, 2025 | 2:00 PM - 4:00 PM
Location: Institute of Energy and Environmental Engineering, University of the Punjab, Lahore

Description:

This awareness seminar, a collaboration between the Institute of Energy and Environmental Engineering (IEEE), DSG Energy, and Sustainable Energy Developers (SED), is designed to enlighten undergraduate students about the evolving energy landscape and career opportunities in Pakistan's energy transition. Featuring expert speakers including Dr. Syed Sheraz Daood (Director, Energy Engineering Research and Development Centre), Fatima Khan (WWF), Aman Khan (Assistant Manager BD, DSG Energy), and Talha Kashif (Deputy Manager - Projects, DSG Energy), the interactive session will explore national energy goals, climate action pathways, and the pivotal role of young energy engineers in building a sustainable future.

Key Details:

Moderator: Adeel, Eco Ambassador - DSG Energy
Target Audience: Undergraduate students of Energy and Environmental Engineering
Agenda Highlights:

- Welcome and Introduction (2:00-2:15 PM)
- Round Table Talk on Pakistan's Energy Transition (2:15-2:45 PM),
- Youth-Led Climate Action (2:45-3:15 PM)
- Careers in the Energy & Climate Sector (3:15-3:30 PM),
- followed by an engaging Quiz and Prize Distribution (3:30-4:00 PM)

Plantation Drive

The Institute of Energy and Environmental Engineering organized a successful plantation drive on September 5, 2024, with enthusiastic participation from students of the 2nd, 4th, and 6th semesters. The event aimed to promote environmental sustainability and create awareness about the importance of green initiatives among the youth. Professor Dr. Mahmood Saleem, Vice Chancellor of Mir Chakar Khan Rind University of Technology, DG Khan, graced the occasion as the chief guest and appreciated the efforts of the students and faculty in contributing towards a cleaner and greener campus. During the drive, numerous saplings were planted within the institute premises, symbolizing the collective commitment of students and faculty to environmental conservation and climate action. The event concluded with a pledge to continue such eco-friendly initiatives in the future.

Land Restoration

Institute of Energy and Environmental Engineering, University of the Punjab, organized land restoration on Friday, March 17th. Chief Commissioner Award holder, President's Gold Medalist, and Former Member, National Youth Council, Abdul Rehman, was the chief guest of the event.

Dean of the Faculty of Electrical, Energy, and Environmental Engineering, Prof. Dr. Hamed Sattar, Associate Professor Dr. Sheraz Dawood, Assistant Professor Dr. Muhammad Sarfraz Akram, Dr. Rizwan Haider and Dr. Hassan Zeb were present at the event.

The chief guest emphasized the importance of the environment and appreciated the idea as a necessity for the environment and human health. Afterwards, the president of the society, Mashood Urfi, elaborated on the event's importance, saying that this was a major step towards improving the environment and making it green. The tree plantation was done with the help of the scouts of the Punjab Boys Scout Association (PBSA).

At the end of the event, the worthy chief guest and the director of IEEE awarded certificates to the scouts of the PBSA. The event was organized by the Energy and Environmental Engineering Society (EEES) of the Institute of Energy and Environmental Engineering.

13. RULES RELATING TO DISCIPLINE

No student shall:

(i) utter, do, or propagate anything repugnant to Islam within and outside the precincts of the University/Institute/College/Department,
(ii) say or do anything which might adversely affect the honor and prestige of Pakistan or University and Teachers,
(iii) smoke in the Classroom, Laboratory, Workshop, Library and Examination Hall,
(iv) form, or associate with an Organization/Society/Club, or any other body, promoting caste distinctions and inciting parochial/linguistic/ regional feeling,
(v) organize, or hold any function within the precincts of the University except in accordance with the prescribed rules and regulations,
(vi) collect money or receive donations or pecuniary assistance for or on behalf of the University or any University Organization except with the written permission of the competent authority,
(vii) stage, incite, or participate, in a walkout, strike or any other form of agitation which might create or is likely to create law and order problem for the University and affect or is likely to affect its smooth functioning,
(viii) indulge in immoral activities, use indecent language, wear immodest dress, make indecent remarks, jokes or gestures or behave in an improper manner,
(ix) cause disturbance to others,
(x) keep or carry weapons, narcotics, immoral or subversive literature,
(xi) disturb peace and tranquility of the Institution/College/Department,
(xii) use in salutary or abusive language or resort to violence against a fellow student or employee of the University.
(xiii) use mobile phone in the classroom and examination hall

Disciplinary action by the Principal of a Constituent/Affiliated College/Chairman of a University Teaching Department/Director of an Institute/Discipline Committee/ Council against the student/s may be taken in one or more of the following forms depending upon the severity of the offence:

(i) A written warning may be issued to the students concerned and a copy of the same may be displayed on the Notice Board.
(ii) The matter may be reported to the Parents/Guardians and they may be called, if necessary.
(iii) A student may be fined. The fine imposed shall have to be deposited with the Treasurer, under intimation to the Principal/Director/Chairman/ Secretary Discipline Committee/Council as the case may be.

(iv) A student may be turned out of the class by the teacher concerned and be not permitted to attend the same course up to three periods at one time under intimation to the Principal/Chairman/Director.

(v) A student may be placed on probation for a fixed period not exceeding 3 months. If during the period of probation, he fails to improve his conduct, he may be rusticated or expelled.

14. TRAINING, RESEARCH AND ANALYTICAL FACILITIES

The Institute has developed number of training, research and analytical facilities pertaining to fuel characterization, coal beneficiation, fuel conversion and hi-tech analytical instruments. The list of available facilities is provided below.

Sr. No.	Equipment
1	Digital Bomb calorimeter
2	Particle Size Analyzer
3	Digital Density Meter
4	Fourier Transform InfraRed Spectrometer
5	Dual Beam 8 Cell Scanning Spectrophotometer
6	H_2S Analyzer
7	Total Organic Carbon Analyzer
8	Froth Flotation Cell
9	Ash Fusion Analyzer
10	BET Surface Area Analyzer
11	CHNSO Analyzer
12	CRI-CSR System (along with Jaw Crusher, Screen and Tumbler Machine)
13	Magnetic Separator
14	Solid-Gas Separation System
15	Double Roll Crusher
16	Biomass Crusher
17	Rod Mill
18	Ball Mill
19	Hammer Mill
20	Sieve Shaker
21	Deister Concentrating Table
22	Jig Washer
23	Hardgrove Grindability Index Machine
24	Disc Mill
25	Saw Grinder

26	Thin Section and Petrographic Polisher
27	Ashing Furnace
28	Tube Furnaces
29	Minimum Free Space Oven
30	Muffle Furnaces
31	Flue Gas Analyzer
32	Thermogravimetric Analyzer
33	Gas Chromatograph
34	Automatic Abel Flash Point Analyzer
35	Automatic Cleveland Flash Point Analyser
36	Automatic Tag Flash Point Analyser
37	Electric Tag Open Cup Flash Point Analyzer
38	Automatic PMCC Flash Point Analyser
39	Electric Abel Flash Point
40	Semiautomatic Cleveland Flash Point
41	Smoke Point Apparatus
42	Viscometer Bath
43	Viscometer Tube Cleaner and Dryer
44	Cloud and Pour Point Refrigerator
45	Dropping Point Apparatus
46	Semiautomatic Precision Penetrometer
47	Oxidation Stability Liquid Bath
48	Copper Corrosion Bath
49	Heated Centrifuge
50	Dew Point Apparatus
51	Flow Meter
52	Viscometer Tubes
53	Gasification Pilot Plant with Gas Cleaning System
54	Combustor Pilot Plant (along with Online Gas Analyzer)

The Institute is growing its facilities to train its students with state of the art, modern and advance training, and research facilities. These facilities will not only help in improving and understanding their theoretical and practical knowledge but also to

carry out research activities, as well. Almost over **200** training, research and analytical equipment will be added in addition to the above mentioned facilities over the next one and half year for the beneficiation of students.

15. OFFICE OF RESEARCH INNOVATION AND COMMERCIALIZATION (ORIC)

In order to assist the University in promoting and enhancing research activities and helping them to commercialize and industrialize, Office of Research Innovation and Commercialization (ORIC) is working closely with the Ministry of Science and Technology (MoST), Islamabad. ORIC also helps to enhance research activities in Institutes / Colleges / Departments of the University and to protect intellectual property generated because of research activities.

The Institute has a focal person from the faculty members who in addition to his/her teaching responsibilities serves for effective communication, delivering and sharing of research ideas between ORIC and the Institute. For objectives of ORIC, visit the following website.

https://www.hec.gov.pk/english/services/universities/ORICs/Pages/Objectives.aspx

16. INSTITUTE-INDUSTRY LINKAGE/COLLABORATION

The Institute is currently providing following testing facilities to different industries in Pakistan, at the cheapest rates. So far more than 200 companies have benefitted from these testing facilities.

- Thermogravimetric analyzer
- Carbon Sulphur analyzer
- Elemental Analyzer
- Bomb Calorimeter (for measurement of heating value)
- Fourier Transform Infrared Spectroscopy

In addition to above testing facilities, the Institute provided testing facility to M/s Snowden (An Australian company hired by the Punjab Government) for the evaluation of Punjab coal reserves.

The Institute has also provided technical assistance in the feasibility studies to the Government of Punjab for the establishment of following power generation plants at National level.

i. Punjab Power Development Company, Government of the Punjab, 660x2 MW Coal Based Power Plant at Qadar Abad - Sahiwal District, Punjab.

ii. M/s Electro Power Generation Pvt. Ltd. 50 MW Coal Based Power Plant at Kalar Kahar, Distt. Chakwal.
iii. M/s Saba Power Generation Company Pvt. Ltd. 50 MW Coal Based Power Plant at Kattha Sugral, Distt. Khushab.
iv. M/s Noble Power Generation Company Pvt. Ltd. 50 MW Coal Based Power Plant at Mauza Dharabi, Tehsil Tala Gang, Distt. Chakwal.
v. M/s Malakwal Power Pvt. Ltd. 50 MW Coal Based Power Plant at Vareena Distt. Mandi Bahuddin.
vi. Punjab Power Development Company, Government of the Punjab, 110 MW Coal Based Power Plant near Industrial Estates, Sundar, Lahore.
vii. Punjab Power Development Company, Government of the Punjab, 110 MW Coal Based Power Plant near M-3 Industrial City, Faisalabad.
viii. 2 x 660 MW Coal Based Power Plant at Rahim Yar Khan by Nishat group and Shanghai Electric Company, China
ix. 2 x 660 MW Coal Fired Power Project at Balloki, Kasur by M/s. China Gezhouba Group Co., Ltd.
x. Punjab Power Development Company Limited, Government of the Punjab, 150 MW Coal Based Power Plant at Sialkot
xi. Punjab Power Development Company Limited, Government of the Punjab, 150 MW Coal Based Power Plant at Faisalabad
xii. Punjab Power Development Company Limited, Government of the Punjab, 150 MW Coal Based Power Plant at Multan
xiii. Punjab Power Development Company Limited, Government of the Punjab, 150 MW Coal Based Power Plant at Lahore
xiv. 30MW Waste to Energy Power Plant at Lakhodair Site Lahore undertaken by Lahore Waste Management Company (LWMC)

The Institute is also providing consultancy services to the private enterprises for the following purposes:

- Gasification
- Coal cleaning/Coal fired electricity generation/Domestic utilization of coal
- Substitution of furnace oil/natural gas by coal in the industrial sector
- Transfer of technology from the developed/developing countries to Pakistan
- Spread of knowledge, experience and skill to the public within the country by integrating results on indigenous energy sources

NOTE
(Applicable to the schedule of all programmes)

- **The candidate is required to see the lists of Selectees and schedule of payment of dues on the Notice Board of the Institute or on the University website. He/She will not be provided/sent the above-mentioned information by the Institute through any other means.**
- **Once the candidate has been offered his/her higher option later he/she cannot be considered for his/ her lower option irrespective of seats available in disciplines therein. In other words, there shall be no reverse processing for the generation of sequential merit lists.**
- **If a candidate, once selected for any option in the selectees' list, does not deposit his/her admission dues, shall lose / forfeit his/ her right to be considered for the high option(s) of disciplines given by him / her in his / her application form.**

Disclaimer

The prospectus is informational and should not be taken as binding on the Institute. Each aspect of the educational setup, ranging from the admission procedure to the examination regulations or discipline, requires continual review by the competent authorities. The Faculty, therefore, reserves the right to change/amend any rule/s and regulations applicable to students whenever it is deemed appropriate or necessary.

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