UNDERGRADUATE PROSPECTUS

ENTRY- 2008

UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA

DISCLAIMER

This prospectus is informational and should not be taken as binding on the University. Each aspect of the educational setup, from the admission procedure or criteria to the examination regulations or discipline, requires continuing review by the competent authorities. The university therefore reserves the right to change any rules and regulations applicable to students whenever it is deemed appropriate or necessary.

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Rules and Regulations

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ORGANIZATIONAL SETUP

UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA

Chancellor	**Suleman Taseer** Governor of the Punjab
Pro-Chancellor	 Minister for Education, Punjab
Vice Chancellor	**Prof. Dr. Habibullah Jamal**
Registrar	**Mr. Muhammad Aslam Bhatti**
Controller of Examinations	**Mr. Mahmood Akhtar**
Treasurer	**Mr. Walid Tariq**
Librarian	**Mr. Muhammad Anwar**

DEANS OF FACULTIES

Faculty of Civil and Environmental Engineering

Prof. Shaukat Ali Khan

Faculty of Electronics and Electrical Engineering

Prof. Dr. Muhammad Amin

Faculty of Mechanical and Aeronautical Engineering

Prof. Dr. Mukhtar Hussain Sahir

Faculty of Telecommunication and Information Engineering

Prof. Dr. Muhammad Zafrullah

CHAIRMEN OF ACADEMIC DEPARTMENTS

Department of Civil Engineering

Prof. Dr. Abdul Razzaq Ghumman

Department of Computer Engineering

Dr. Hafiz Adnan Habib

Department of Electrical Engineering

Prof. Ahmad Khalil Khan

Department of Mechanical Engineering

Prof. Dr. Shahab Khushnood

Department of Software Engineering

Prof. Dr. Attaullah Solangi

Department of Telecommunication Engineering

Prof. Dr. Adeel Akram

Department of Industrial Engineering & Management Sciences (Postgraduate)

Dr. Jehanzeb Mirza

Director Chakwal Campus
Prof. Dr. Umar Farooq

SERVICES AND COMMON FACILITIES

Chairmen of Committees

Health	**Prof. Dr. Mukhtar Hussain Sahir**
Library	**Prof. Dr. Muhammad Zafrullah**
Transport	**Engr. Zahid Suleman Butt**
Sports	**Prof. Liaqat Ali Qureshi**
Mosques	**Prof. Muhammad Iram Baig**
Time Table	**Prof. Sagheer Ahmad**
Discipline	**Prof. Dr. Mumtaz Ahmad Kamal**
Affiliation Committee/ House Allotment Committee	**Prof. Shaukat Ali Khan**

Health Clinic

Chief Medical Officer	**Dr. Ali Akhtar**
Senior Medical Officer	**Dr. Shaheen Sughra**

Library

Asstt. Librarian (Evening)	**Mr. Muhammad Mushtaq Khan**
Asstt. Librarian (Morning)	**Syed Mahmood Ali Zaidi**

Sports

Assistant Director Physical Education (Male)	**Mr. Muhammad Akmal Hussain**
Assistant Director Physical Education (Female)	**Miss Shamsa Ghafoor**

Transport

Transport Officer	**Engr. Gulistan Raja**

Estate Office

Director Arboriculture & Land Management	**Engr. Nazir Ahmad Anjum**
Estate Officer	**Engr. Ch. Nisar Ahmad**

Halls of Residence

Senior Warden	**Mr. Mahmood Akhtar**
Warden	**Engr. Zahid Suleman Butt**
Resident Tutor 1 Iqbal (I) Hall	**Engr. Faheem Butt**
Resident Tutor 2 Iqbal (I) Hall	**Mr. Aamir Hussain**
Resident Tutor 1 Quaid-e-Azam (Q) Hall	**Engr. M. Asjad Saleem**
Resident Tutor 2 Quaid-e-Azam (Q) Hall	**Engr. Atta-ur-Rehman**
Resident Tutor 1 Omar & Usman Hall	**Engr. Salman Amin**
Resident Tutor 1 Ali Hall	**Engr. Kashif Habib**

Audit

Resident Auditor	**Mr. Junaid Hameed Haq**

Accounts

Assistant Registrar	1.	**Mr. Abid Mehmood Qureshi**
	2.	**Mr. Muhammad Nawaz**
	3.	**Mr. Shahid Saleem**
Assistant Registrar (Procurement)		**Sheikh Asif Ali**

Dues/Scholarship Section

Assistant Registrar	**S. M. Raza Kazmi**

Examinations Branch

Assistant Controller	**Mr. Khalid Mahmood**

Establishment

Deputy Registrar	**Mr. Muhammad Azam Khan**
Assistant Registrar	**Mr. Muhammad Ilyas Khan**

Academic & Regulation

Assistant Registrar	**Mr. Ali Hussain Naqvi**

Network Administration and Research Center

Director Networks	**Prof. Dr. Adeel Akram**
System Administrator	**Engr. Shahbaz Pervez Chattha**
Web Manager	**Syed Muhammad Adnan Shah**
Manager Software Development	**Mr. Muhammad Huzaifa**

Vice-Chancellor's Office

Secretary to Vice Chancellor	**Mr. Muhammad Shafi**

Directors

Advanced Studies, Research & Technological Development	**Prof. Dr. Qaiser uz Zaman Khan**
Undergraduate Studies	**Prof. Dr. Mumtaz Ahmad Kamal**
Student Affairs	**Prof. Tahir Nadeem Malik**
Information Technology Centre	**Prof. Dr. Muhammad Zafrullah**
Project Director (B&W)	**Engr. Imran Hafeez**
Telephone Exchange	**Prof. Muhammad Iram Baig**
Digital Library	**Engr. Shahbaz Pervez Chattha**
Planning & Development	**Mr. Musharraf Sabih**

IMPORTANT TELEPHONE NUMBERS

Official Web Site:http://www.uettaxila.edu.pk

Trunk Numbers: 9047 (RWP/IBD PRI port #) **400**,**500**,**600** (Operator extensions), **9314216-23** (Taxila, 8 Lines), **Fax No. 051-9047420**

The Intercom extensions are configured as Rawalpindi/Islamabad local numbers. 051-9047ddd (300 lines), where ddd stands for the 3-digit intercom extensions listed below:

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CODE OF ETHICS

(For the seekers and practitioners of the magnificent science of engineering)

IN THE NAME OF ALLAH, THE BENEFICENT, THE MERCIFUL

% You shall be honest, faithful and just, and shall not act in any manner derogatory to the honor, integrity and dignity of the engineering profession.

% You shall not injure, maliciously, directly or indirectly, the reputation or employment of another engineer, nor shall you fail to act equitably while performing professional duty.

% You shall use your knowledge and skill of engineering for human welfare, and render professional service and advance, which reflects your best professional service and advance, which reflects your best professional judgment.

% You shall not abuse your position or power, nor accept illegal gratification of any sort.

% You shall faithfully observe and fulfill all your obligations.

% You shall express your opinion on engineering or other matters in a frank, open and straightforward manner.

% You shall not criticize another engineer's work without his knowledge nor malign, or injure his professional reputation.

% You shall not ridicule fellow engineers nor let one discipline of engineering derides other disciplines or professions.

% You shall not directly or indirectly discredit other engineers nor assign (derogatory) epithets to their persons or work.

% Your professional advice shall be based on full knowledge of the facts and honest conviction, and you shall not write articles or advertise in self-laudatory or in any manner derogatory to the dignity of the profession.

% You shall ascertain facts before accepting them and shall not encourage or cause others to carry tales. Credulity is no credit.

% You shall help one another in upholding and doing that is right, and shall not associate with those who transgress and those who indulge in unethical practices.

% You shall be kind and considerate to others and shall not fail to be cooperative and

INTRODUCTION

THE CITY OF TAXILA

The antique name ***'Takshasila'*** means the city of cut stones. Taxila has gained worldwide eminence for its archaeological sites. Once a province of the powerful Achaemenian empire, Taxila was conquered by Alexander in 327 BC. It later came under the Mauryan dynasty and attained a remarkably mature level of development under the great Ashoka. Then appeared the Indo-Greek descendants of Alexander's warriors and finally came the most creative period of Gandhara. The great Kushan dynasty was established some where near 50 AD. During the next 200 years Taxila became a renowned centre of learning, philosophy, art and religion, Jaulian being a centre of excellence or a university of that age. Pilgrims and travelers were attracted to it from as far away as China and Greece.

History took a new turn around 1950 when Ordnance Factories were founded at Wah, adjacent to Taxila. The country's largest Mechanical Complex and Foundry were established at Taxila in mid sixties. In early seventies, the industrial progress attained a new dimension when Taxila was chosen to have Heavy Industries Taxila near its world famous museum. At the same time Pakistan's largest Aeronautical Complex was established at Kamra which is about 45 km from Taxila. In mid seventies, government of the Punjab found the city ideally suitable for establishing the constituent college of University of Engineering and Technology, Lahore.

Industrial progress in and around Taxila is gaining a newer pace. The neighboring industrial organizations are in the process of rapid expansion. A new industrial zone has emerged in Hattar area, which is about 20 km away from Taxila. Taxila is emerging as a leading industrial region at the national level. The strategic location is paving way for the city to act as a gateway to historical "SilkRoute".

THE UNIVERSITY

With phenomenal increase in students' enrollment in 1970's, a plan to establish additional campuses of the University of Engineering and Technology Lahore was conceived. As a result of that, the University College of Engineering Taxila was established in 1975. For three years it functioned at Sahiwal. In 1978 it was shifted to its permanent location at Taxila. The College continued its working under the administrative control of the University of Engineering and Technology, Lahore till October 1993. During this month it received its charter as an independent university under the University of Engineering and Technology Taxila Ordinance 1993. At present total enrollment of undergraduate and postgraduate students is above 2000.

LOCATION

The University campus is located on the outskirts of Taxila at a distance of 5 km from the city. It is situated near railway station Mohra Shah Wali Shah on Taxila-Havelian branch line. The city of Taxila is 35 km from the twin cities of Islamabad and Rawalpindi on the main Rawalpindi-Peshawar highway. The University buses commute daily between the campus and the cities of Islamabad, Rawalpindi and Wah Cantt. The campus covers an area of 163 acres. All the teaching departments, residential colony for teachers/ employees, student hostels, guesthouse, post office and bank are housed on campus.

ADMINISTRATION

The Governor of Punjab is the Chancellor and the Education Minister of Punjab is the Pro-Chancellor of the University. The Syndicate is the governing/legislative body and the Academic Council is the highest academic body of the University. The Vice-Chancellor is the Chief Executive and Academic Officer of the University. He is assisted by Deans of Faculties, Chairmen of Departments, Directors and Principal Officers of the University the Registrar, the Treasurer, the Controller of Examinations

and the Project Director, to ensure that the provisions of the University Act, the Statutes and the Regulations are faithfully observed and implemented.

ACADEMIC PROGRAMS

The University offers B.Sc. Degree Courses in Civil, Computer, Electrical, Mechanical, Software and Telecommunication Engineering.
The University offers B.Sc. Degree Courses in Civil, Computer, Electrical, Mechanical, Software and Telecommunication Engineering.

EXISTING FACULTIES AND DEPARTMENTS

1. **Faculty of Civil and Environmental Engineering**
   Department of Civil Engineering

2. **Faculty of Electronics and Electrical Engineering**
   Department of Electrical Engineering

3. **Faculty of Mechanical and Aeronautical Engineering**
   Department of Mechanical Engineering

4. **Faculty of Telecommunication and Information Engineering**
   Department of Computer Engineering
   Department of Software Engineering
   Department of Telecommunication Engineering

FUTURE PROGRAMS

The following new departments will be established under the respective Faculties in near future:

1. **Faculty of Civil and Environmental Engineering**
   Department of Environmental Engineering

2. **Faculty of Electronics and Electrical Engineering**
   Department of Electronics Engineering

3. **Faculty of Mechanical and Aeronautical Engineering**
   Department of Aeronautical Engineering

4. **Faculty of Industrial Engineering**
   Department of Industrial & Manufacturing Engineering
   Department of Engineering Economic & Management

1. FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING

Dean

Prof. Shaukat Ali Khan

DEPARTMENT OF CIVIL ENGINEERING

Chairman

Prof. Dr. Abdul Razzaq Ghumman

Professors

1.	**Saeed Ahmad**	PhD (UK)
2.	**Muhammad Akram Javaid**	PhD Mathematics (UK)
3.	**Abdul Razzaq Ghumman**	PhD (UK)
4.	**Mumtaz Ahmad Kamal**	PhD (UK)
5.	**Hashim Nisar**	(Gold Medallist), PhD (UK)
6.	**Qaiser uz Zaman Khan**	(Gold Medallist), PhD (Japan)
7.	**Shaukat Ali Khan**	MSc Engg (UK)
8.	**Liaqat Ali Qureshi**	MSc Engg (Taxila)

Associate Professors

1.	**Hafiz Muhammad Yasin Butt**	M Phil Islamic Studies (AIOU)
2.	**Ashfaq Ahmad Tahir**	MSc Engg (Taxila)

Assistant Professors

3.	**Usman Ghani**	(Gold Medallist), MSc Engg (Taxila)
4.	**Kamran Muzaffar Khan**	MSc Engg (Taxila)
5.	**Muhammad Yaqub**	MSc Engg (Taxila) (On higher studies abroad)
6.	**Muhammad Salman**	MSc Engg (NUST)
7.	**Imran Hafeez**	MSc Enng (Taxila)
8.	**Naeem Ejaz**	MSc Engg. (Lahore) (On higher studies abroad)
9.	**Jawad Hussain**	MSc Engg (Taxila) (On higher studies abroad)
10.	**Faheem Butt**	MSc Engg (Lahore) (On higher studies abroad)
11.	**Usman Ali Naeem**	Msc Engg (Taxila)
12.	**M. Fiaz Tahir**	MSc Engg (Lahore)

Lecturers

13.	**Ayub Elahi**	MSc Engg (Taxila) (on higher Studies abroad)
14.	**Naveed Ahmad**	MSc Engg (Taxila) (on higher Studies abroad)
15.	**Faisal Shabbir**	MSc Engg (Taxila) (on higher Studies abroad)
16.	**Muhammad Ali Shamim**	MSc Engg (Taxila) (on higher Studies abroad)
17.	**Zafar Naushad**	MSc Engg (Taxila) (on higher studies abroad)
18.	**Qazi Umar Farooq**	MSc Engg (Japan) (on higher Studies abroad)
19.	**Abdul Qadeer**	BSc Engg (Taxila)
20.	**Shehzad Saleem**	BSc Engg (Taxila)
21.	**Muhammad Irshad Qureshi**	MSc Engg (Taxila) (on higher Studies abroad)

THE DEPARTMENT

Department of Civil Engineering is actively engaged in disseminating civil engineering education for the last thirty years. Whereas plans are also underway to establish the Department of Environmental Engineering.

The Department of Civil Engineering has an academic staff of 29, nearly 70% of whom contribute to postgraduate teaching and are involved in PhD research work. Approximately 450 undergraduate and 100 postgraduate students are registered in the department. Civil engineers cater to the national needs for buildings, highways, dams, bridges, irrigation network and water supply systems, and are the world's largest users of building materials.

COURSES OF STUDY

The Department of Civil Engineering offers full-time course of four years duration leading to the degree of BSc in Civil Engineering. The department also organizes a course of 18 months duration leading to MSc in Civil Engineering.

In the bachelor's course, emphasis is laid on the fundamental concepts and principles, which constitute the basis of civil engineering practice. To foster their creative abilities, the students are assigned projects on design, construction or laboratory investigation for self directed execution. The classroom and laboratory work is supplemented by the instructional tours to acquaint students with civil engineering projects of national importance. Survey camp is held to impart intensive field training where the students plan and execute survey of large areas independently.

LABORATORIES

The department has the following well-equipped nine laboratories to meet the academic requirements of students and teachers as well as the professional needs of the government and private organizations:

1. Soil Mechanics & Foundation Engineering
2. Concrete Technology
3. Strength of Materials
4. Transportation Engineering
5. Hydraulics/Fluid Mechanics
6. Theory of Structures/ Engineering Mechanics
7. Surveying
8. Public Health Engineering
9. Computing laboratory

Transportation and Structural Engineering Laboratories have recently been upgraded through funds provided by Higher Education Commission. In this connection, the equipment has been procured and installed.

TAXILA INSTITUTE OF TRANSPORTATION ENGINEERING (TITE)

Department of Civil Engineering has established a new institute by the name of “Taxila Institute of Transportation Engineering (TITE)”. It is a unique institute of its own kind in Pakistan and will prove to be a focal point for providing education and research facilities in the field of Transportation Engineering.

The institute provides facilities like research laboratories, lecture rooms for postgraduate students, conference room, computer laboratory and a library. A wide range of state of the art equipment had been procured to facilitate high teach research work.

The mission of the institute is to develop and implement innovative method, materials, and the technologies for improving transportation efficiency, safety and reliability as well as improving the learning and innovative environment for students, faculty and staff in transportation related areas.

POSTGRADUATE STUDIES & RESEARCH

In order to satisfy the increasing demand for relevant advanced technological education, the department offers MSc degree courses in Structural Engineering, Water Resources and Irrigation Engineering, Transportation Engineering, Soil Mechanics and Foundation Engineering and Environmental Engineering covering the most recent developments. The courses contain a balance of analytical and professional aspects and are designed to suit the needs of fresh graduates and those with professional experience.

The faculty has completed a number of research projects funded by HEC through the Directorate of Advanced Studies, Research and Technological Development. Research papers based upon applied research have been published in journals and conferences of national and international repute.

Most of the postgraduate students belong to the construction industry and act as a bridge for university industry linkage that makes research in the department to be practical and useful for the country. The introduction of PhD program has further enriched the research activities in the department. Presently, 21 PhD scholars have been registered for PhD research.

Research is being carried out in the following areas:

1) Structural Engineering
2) Soil Mechanics and Foundation Engineering
3) Transportation Engineering
4) Water Resources and Irrigation Engineering
5) Hydraulic Engineering
6) Environmental Engineering
7) Concrete Technology

Numerical modeling and computer-application in all the research activities are being given special attention. The courses of studies have been designed on the basis of present needs of the Industry. The students are also trained to work independently for solving complex real world problems.

2. FACULTY OF ELECTRONICS AND ELECTRICAL ENGINEERING

Dean

Prof. Dr. Muhammad Amin

DEPARTMENT OF ELECTRICAL ENGINEERING

Chairman

Prof. Ahmad Khalil Khan

Professors

1.	**Habibullah Jamal**	PhD (Toronto)
2.	**Muhammad Amin**	PhD (Taxila)
3.	**Muhammad Zafarullah**	PhD (Taxila)
4.	**Ahmad Khalil Khan**	MSc Engg (USA)
5.	**Muhammad Ahmad Choudhry**	PhD (USA)
6.	**Muhammad Javed Mirza**	PhD (USA)
7.	**Sakhi Muhammad Bhutta**	PhD (Belgium)
8.	**Tahir Nadeem Malik**	MSc Engg (Lahore)
9.	**Aftab Ahmad**	MSc Engg (Lahore)
10.	**Muhammad Iram Baig**	MSc Engg (Lahore)

Assistant Professors

11.	**Tariq Asghar**	MSc Mathematics (Punjab University)
12.	**Tahir Mahmood**	MSc Engg (Lahore)
13.	**Ilyas Ahmad**	MSc Engg (Taxila) (on higher Studies abroad)
14.	**Gulistan Raja**	MSc Engg (Japan)
15.	**Inamul Hassan Sheikh**	MSc Engg (Taxila) (on higher Studies abroad)
16.	**Aamir Hanif**	MSc Engg (Taxila)
17.	**Muhammad Obaidullah**	MSc Engg (Taxila) (on higher Studies abroad)
18.	**Shabir Majeed Chaudhry**	MSc Engg (Taxila)
19.	**Ahsan Ali**	MSc Engg (Taxila) (on higher Studies abroad)
20.	**Salman Amin**	MSc Engg (Taxila)
21.	**Irfan Arshad**	Msc Engg (Taxila)

Lecturers

22.	**Shaikh Saaqib Haroon**	BSc Engg (Lahore)
23.	**Kashif Habib**	BSc Engg (BZU Multan)
24.	**Sarmad Sohaib**	BSc Engg (GIKI) (on higher Studies abroad)
25.	**Saif Siddique Butt**	BSc Engg (Taxila) (on higher Studies abroad)
26.	**Ayesha Ijaz**	BSc Engg (Taxila) (on higher Studies abroad)
27.	**Raja Abdullah**	BSc Engg (Taxila)
28.	**Tahir Muhammad**	BSc Engg (Canada)
29.	**Muazzam Azeem**	BSc Engg (Taxila)
30.	**Hammad Shaukat**	BSc Engg (Taxila)
31.	**Salman Saeed**	BSc Engg (Taxila)

THE DEPARTMENT

The educational objectives of the undergraduate program of the Department of Electrical Engineering are to develop professional skills in the students that prepare them for immediate employment in Electrical Engineering. The department aims to develop .ned with communications, electronics, industrial control & automation, computers and electrical energy. There is hardly any sphere of modern life that is not affected one way or the other, by some aspect of electrical engineering.

Currently Faculty of Electrical Engineering is running two degree awarding programs: B.Sc. Electrical Engineering in Taxila and B.Sc. Electronics Engineering in Chakwal. Electrical Engineering department Taxila has an enrollment of more than 600 undergraduate, 160 M.Sc. and 32 PhD students. The department is housed in a Block that covers an area of 57,500 sq.ft. The department has well equipped laboratories for undergraduate classes and the equipment is upgraded as the need arises. Lecture theatres, classrooms, laboratories, faculty offices etc are all housed in the same Block.

COURSES OF STUDY

All courses have a core set of subjects, allowing students to specialize further in electrical subjects, or go more deeply into computer and telecommunications. Electrical Engineering Course content includes analogue, digital and solid-state electronics, digital systems, telecommunications, and electromagnetic, with in-depth study of mathematics and computers in the context of electrical engineering. Practical skills in designing, making and testing are developed through laboratory work and computer-aided design. Laboratory projects are encouraged in second and third years whereas final year projects are assigned in consultation with industrial experts. The campus is located in an industrial environment and the students have a fair chance of industrial visits.

The Elective Courses are included in the program to provide more breadth to the knowledge. In 3rd and 4th years, the students can register for the Elective Courses according to their interests. Our degrees are highly regarded by industry and independent assessors. The course is accredited by the Pakistan Engineering Council as satisfying the academic requirements for Professional Engineer (PE) status.

POSTGRADUATE STUDIES & RESEARCH

The department started its postgraduate program in 1984 and doctoral study program in 2001. Until now 570 MSc and 5 PhDs have been produced. The postgraduate program offer a degree in Master of Science in Electrical Engineering" with specializations in

- Electrical Power Engineering
- Electronics Engineering
- Control Engineering

The master degree courses are aimed at bringing the students abreast with the most recent developments in their fields of specialization. These courses are offered both for the part-time as well as the full-time students. At present more than 90% students are enrolled in the part-time program. Most of these students are working with major engineering organizations of the country.

Research work being carried out at the department has direct bearing on the needs of national industry. This research is partially funded by the Directorate of Advanced Studies, Research and Technological Development of the University. Projects, to meet the requirements of the neighboring industries are also conducted in the department. The faculty members and postgraduate students have published a number of research papers. These have been published in major national and international journals.

The department has a well-stocked and up to date library for use of the teachers and postgraduate students. It also offers consultancy services and testing facilities to local manufacturers of electrical and electronics equipment. It also arranges frequent seminars and workshops in various areas of electrical, electronics, control and computer engineering. The faculty members, postgraduate students and prominent researchers from home and abroad participate in these seminars.

3. FACULTY OF MECHANICAL AND AERONAUTICAL ENGINEERING

Dean

Prof. Dr. Mukhtar Hussain Sahir

DEPARTMENT OF MECHANICAL ENGINEERING

Chairman

Prof. Dr. Shahab Khushnood

Professors

1.	**Shahab Khushnood**	(God Medalist), PhD (NUST)
2.	**M. Shahid Khalil**	PhD (UK)
3.	**Mukhtar Hussain Sahir**	PhD (Lahore)
4.	**Muhammad Anwar Khan**	MSc Engg (UK)
5.	**Rafi Javed**	MSc Engg (USA)
6.	**Sagheer Ahmad**	MSc Engg (Lahore)
7.	**Khawaja Sajid Bashir**	MSc Engg (Lahore)

Professors *(Foreign Faculty)*

8.	**M. M. I. Hammouda**	PhD (UK)
9.	**Fathi M. Mahfouz**	PhD (KSA)
10.	**Yosry Mashaal**	PhD (UK)

***Associate* Professor**

11.	**Mirza Jahanzeb**	PhD (Taxila)

Assistant *Professors*

12.	**Muhammad Saeed Akhtar**	M Phil Mathematics (QAU) on higher studies abroad
13.	**Khalid Masood Khan**	MSc Engg (UK)
14.	**Riffat Asim Pasha**	MSc Engg. (Taxila)
15.	**Zahid Suleman Butt**	MSc Engg (Taxila)
16.	**Wasim Ahmad**	BSc Engg (Hons) (Taxila)
17.	**Muhammad Kashif Iqbal**	BSc Engg (Hons) (Taxila)
18.	**Muhammad Ali Nasir**	MSc Engg (Taxila)
19.	**Tanzeel ul- Rashid**	MSc Engg (Lahore)
20.	**Muzaffar Ali**	MSc Engg (Taxila)
21.	**Ali Rizwan**	MSc Engg (Taxila)
22.	**Muddasar Khan**	Msc Engg (NUST)

23.	**Syed Turab Haider**	MSc Engg (UK)
24.	**Abdul Mobeen**	MSc Engg (Germany)

Lecturers

25.	**Nazir Ahmad Anjum**	MSc Engg (Taxila)
26.	**Hafiz Zafar Sharif**	MSc Engg (Taxila)
27.	**Ghulam Mustafa**	BSc Engg (Hons) (Taxila)
28.	**Ahtesham-ul-Haq**	BSc Engg (Taxila)
29.	**Abid Hussain**	BSc Engg (Hons) (Taxila)

THE DEPARTMENT

Mechanical engineering is a highly versatile and diversified engineering discipline. On one hand it is concerned with the design of machines and equipment that use energy and convert it into useful work. On the other hand it deals with the design and development of those machines that are used for manufacturing/production equipment.

The department offers four years degree program leading to BSc in Mechanical Engineering. At present, around 400 students in BSc, 150 students in MSc and 30 students in PhD are enrolled in the program.

COURSES OF STUDY

The mechanical engineering courses are built on a strong foundation of mathematical, physical and computing sciences. Emphasis is laid on the fundamental concepts and principles, which constitute the basis of mechanical engineering practice. The curriculum is designed to cover a broad range of areas. The department offers a series of courses in the following areas:

- Engineering Drawing and Drafting
- Thermal Systems Engineering
- Applied Mechanics and Design
- Industrial and Manufacturing Engineering
- Computer based Mechanical Engineering

The courses in Thermal Engineering include applied Thermodynamics, Refrigeration and Air Conditioning, Heat Transfer and Power Plant. The department offers a wide range of courses in Applied Mechanics and Design area. Starting from a basic course in Engineering Mechanics, a series of courses is offered in Mechanics of Materials, Mechanics of Machines and Fluid Mechanics. These theoretical concepts are fostered in a series of Machine Design courses enabling the students to try their skills and design small mechanical equipment. Product design is of no use without product development studies. Industrial and manufacturing engineering deals with the smart and economical product development methodologies. Students start with Workshop Technology in this area. Successive courses in Machine Tools, Engineering Materials, Production Engineering and Production Automation provide the students further insight to this area. Additional courses like Engineering Optimization and Industrial Engineering in senior year introduce students to the efficient

management of the productive resources. Computer based mechanical engineering concepts have been embedded in various courses like Computer Programming, Machine Design, CAD and Industrial Engineering etc.

The University has a rich industrial neighborhood. The students have the opportunity to make maximum use of this industrial environment by engaging themselves in short term as well as long term training. These industries include HIT, HMC, POF, PAF complex at Kamra, HEC, KSB, TIP, CTI, ARL, OGTI, Railway Carriage Factory, Research Establishments of PAEC and a large number of units in the Hattar area. The students pick real world problems either for their term papers or as final year project from these organizations and brush their skills.

The department is offering master degree program since 1983. Sizable engineering graduates have made use of this program in a variety of areas. The program involves two years of part-time study and consists of lectures, design, office work, laboratory investigation and research. The emphasis is on introducing students to modern trends and techniques and advanced knowledge in their fields of specialization. The department has adequate research facilities to meet the need of postgraduate students to do their master program. The department is also offering PhD Program.

LABORATORIES AND OTHER FACILITIES

The department has the following well-equipped laboratories to meet the academic requirements of students and teachers as well as the professional needs of the government and private organizations:

1) Applied Thermodynamics
2) Mechanics of Materials
3) Metrology
4) Refrigeration & Air Conditioning
5) Fluid Mechanics and Hydraulics
6) Heat and Mass Transfer
7) Mechanics of Machines
8) Machine Tools.
9) Industrial Engineering
10) Workshop Technology
11) CAD-I
12) CAD-II
13) Engineering Optimization
14) Mechatronics
15) Advance Manufacturing System
16) Engineering Mechanics (Statics & Dynamics)
17) CNC Center
18) Drawing Hall
19) Fracture Mechanics

A CAD Laboratory has been established to provide facilities for 2D/3D automated drafting, C++ programming and Digital Simulation. Computer based design and optimization techniques are being employed for teaching various courses in the networking environment and considerable number of modern computers is available in the Department. Two new laboratories are established in the department with HEC funding of 40 million. The Labs include the state of the art manufacturing facilities with CNC (M100), computer Integrated manufacturing with AGVs/ASRS and virtual prototyping models. The students can enhance their technical knowledge by using STL files directly from Pro-E and build a model in 3D using rapid prototyping System.

The department also introduces new courses and keeps on progressing and establishing **Mechatronics** Lab. The students can program, make their own circuit boards and test their logics in the lab. The department is equipped with the latest and modern world-class manufacturing facilities in the **AMS Laboratory**. Recently established AMS Laboratory. Of the department has state of the art equipment including Robots, **Computer Integrated Manufacturing System (CIM**) and Rapid

4. FACULTY OF TELECOMMUNICATION & INFORMATION ENGINEERING

Dean

Prof. Dr. Muhammad Zafrullah

Visiting Faculty

1.	**Habibullah Jamal**	PhD (Toronto)
2.	**Umar Farooq**	PhD (Taxila)
3.	**Farhan Ahmed Nadeem**	BSc Engg (Taxila)
4.	**Shahbaz Pervez Chattha**	MSc Computer Engg (Taxila)
5.	**Zeshan Iqbal**	MSc Computer Engg (Taxila)
6.	**Asjad Saleem**	BSc Engg (Hons) (Taxila)
7.	**Saba Shoaib**	(Gold Medallist), BSc Engg (Taxila)

DEPARTMENT OF COMPUTER ENGINEERING

Chairman

Dr. Hafiz Adnan Habib

Professors

1.	**Muhammad Zafrullah**	(Gold Medallist), PhD (Taxila)
2.	**Fawzi-al-Naima**	PhD (UK)
3.	**Muid ur Rehman Mufti**	PhD (USA)

Associate Professors

4.	**Hafiz Adnan Habib**	PhD (Taxila)
5.	**Abdur Rauf**	(Gold Medalist), MSc Mathematics (Turkey)

Assistant Professors

6.	**Yasar Amin**	MSc Engg (Sweden) (on higher studies abroad)
7.	**Muhammad Haroon Yousaf**	MSc Engg (Taxila)
8.	**Syed Sohail Ahmad**	MSc Engg (Hons) (Taxila)

Lecturers

9.	**Muhammad Rizwan**	BSc Engg (Taxila)
10.	**Malik Muhammad Asim**	BSc Engg (Hons) (Taxila)
11.	**Fawad Hussain**	BSc Engg (Hons) (Taxila)
12.	**Muhammad Anwar**	BSc Engg (Taxila) (on higher studies abroad)
13.	**Muhammad Majid**	BSc Engg (Taxila) (on higher studies abroad)
14.	**Awais Tanvir Rana**	BSc Engg (Hons) (Taxila) (on higher studies abroad)
15.	**Muhammad Awais Azam**	BSc Egg (Hons) (Taxila) (on higher studies abroad)
16.	**Sana Ziafat**	BSc Engg (Taxila)
17.	**Hassan Bhatti**	BSc Engg (Taxila)
18.	**Farzana Kulsoom**	BSc Engg (Taxila)
19.	**Ali Adnan Malik**	BSC Engg (Taxila)
20.	**Umbreen Sabir**	BSc Engg (Taxila)
21.	**Mariam Shafqat**	BSc Engg (Taxila)
22.	**Fatima Nasim**	BSc Engg (Taxila)

Internees

23.	**Naveed Khan Baloch**	BSc Engg (Taxila)

Program Objectives

The objective of the Computer Engineering program is to produce professional engineers with capabilities in hardware and embedded system design for real world problems.

The Department

Computer engineering degree program was started in 2001 with intake of fifty students. Initially, it was setup in the building of Electrical Engineering Department and classes were conducted for evening session only. In the mean time, construction of separate building for department worth Rs.40 million with funding from HEC has been started which completed in the year 2006. Building comprised six class rooms, six labs, one final year project lab, one girls common room, two examination halls, one cafeteria at the roof of the building and twenty offices. Department has laboratories with sufficient hardware and computing facilities. Each computing lab is equipped with thirty PCs and each hardware lab is quipped with fifteen workstations. All computing labs are also networked and department has wireless networked coverage as well.

Computer engineering department aims at producing quality professionals capable for development of computing based hardware system for real world applications. Department involves students in studies by theoretical as well as experimentation based education in class and lab sessions. Students are motivated to understand real world challenging computing problems and seminars are arranged by senior professionals from the industry and computing and engineering competitions among students are conducted.

Computer engineering department also arrange different sort of events in order to encourage students to take part in those events and groom their technical as well as non technical skills. The events that we have been arranging so far are; programming exhibition (Term projects exhibition in JAVA, C# etc). Databases exhibition, annual students day and the latest one that was held in computing and engineering competition (mathematics, programming, electronics and projects competition).

Laboratories

1. Electronics Laboratory

This lab is basically developed for the experiments of electronics subjects like basic electrical engineering, electric circuits, electronics devices, analog electronics and digital electronics. The lab is equipped with the latest equipment and all the required software packages used for simulation purpose.

2. Digital Design & Signal Processing Laboratory

Experiments for the subjects like digital logic design, microprocessor system, microcontroller and embedded system, digital signal processing is conducted in this laboratory. This laboratory is equipped with state of the art equipment along with all the latest software used for the simulation purpose for above mentioned subjects.

3. Video & Image Processing Laboratory

The purpose of this lab is to conduct the experiments of Digital image processing, computer vision, machine learning and pattern recognition. All the latest equipments are available in this lab with all the simulation software.

4. General Computing Laboratory

This is a general purpose lab for the students, who want to work on their assignments, term projects or any sort of research work.

5. Computing Laboratory

The purpose of the lab is to conduct practical work for various subjects like introduction to computer, programming techniques, numerical methods, discrete structures etc. This lab is equipped with all necessary hardware and software facilities.

6. Final Year Project Laboratory
This lab is used by the students of final year to work on their final year projects. The lab is equipped with all necessary facilities that held the students.

7. Advanced Networking & Wireless Laboratory
The purpose of this lab is to conduct the experiments of computer communication and networks, network security, wireless communication, communication system, signal and system etc. This lab is equipped with all state of the art technology and related simulation softwares.

8. General Electronics Laboratory
This is general purpose lab for the students, who want to work on their assignments, term projects or any sort of research work related to electronics subjects.

Placement Bureau & Industrial Liaison Office at Computer Engineering Department

Computer Engineering Department considers students as valuable professionals and dedicates efforts towards placement of these students in the industry. Placement bureau has been established at department level. Placement bureau communicates with public and private sector and broadcast the opportunities among students. Onsite interview arrangements are also made to facilitate employers.
Industrial liaison officer has been appointed at university level and industry-academic collaboration is on the way.

Technical Societies in the Department

Technical societies are established in the department that serve guideline for the students to choose their profession after their degree. Students entering in first semester are given orientation about these societies so that they can, later on, join these societies to have technical grooming.
The major objective of these technical societies is to develop strong interaction among the scholars and faculty in their corresponding field of interests. Computer Engineering students have been divided into three categories for this reason. Scholars from undergraduate and postgraduate programs and members from the faculty will share their work with each others.

- **Embedded System & Application Development**
  Embedded System is heart of all computing and appears in various forms such as micro controllers, micro processors and FPGA base systems. Society aims at developing embedded systems for any computing applications.
  Society Counselor:
  Prof. Dr. Muid-Ur-Rehman Mufti

- **Communication and Networks**
  Objective of this society is to understand computing challenges of communication and network community of Pakistan and global world, to enhance the capabilities of students to a level where they can propose and implement real world solutions.
  Society Counselor:
  Prof Dr. M. Zafrullah
  Dean Faculty of Telecommunication & Information Engineering

- **Signal and Image Processing**
  Signals and image processing is an enabling field with diverse application areas. The society aims to play a vital role in preparing solution locally and globally.
  Society Counselor:
  Dr. Hafiz Adnan Habib
  Chairman Department of Computer Engineering.

DEPARTMENT OF SOFTWARE ENGINEERING

Chairman

Prof. Dr. Attaullah Sollangi

Professors:

1.	**Attaullah Sollangi**	PhD (USA)
2.	**Muhammad Khawar Islam**	PhD (Australia)

Assistant Professors

3.	**Tabassam Nawaz**	MSc Engg (Taxila)
4.	**Samana Zehra**	MSc Engg (Taxila)
5.	**Zeshan Iqbal**	MSc Engg (Taxila)
6.	**Muhammad Siraj Rathore**	MSc Engg (Taxila) (on higher studies abroad)
7.	**Shahid Iqbal Lone**	MSc Engg (Taxila)

Lectures

8.	**Muhammad Asjad Saleem**	BSc Engg (Taxila)
9.	**Mufliha Ashraf**	BSc Engg (Taxila)
10.	**Fawad Riasa**	BSc Engg (Taxila)
11.	**Wajahat Abbas**	BSc Engg (Taxila)
12.	**Ali Javed**	BSc Engg (Taxila)
13.	**Asma Malik**	BSc Engg (Taxila)
14.	**Madiha Liaqat**	BSc Engg (Taxila)
15.	**M. Fahad Khan**	BSc Engg (Taxila)
16.	**Kiran Javed**	BSc Engg (Taxila)
17.	**M. Sohaib Irfan Raja**	BSc Engg (Taxila) (on higher studies abroad)
18.	**Tasawer Iqbal Khan**	BSc Engg (Hons) (Taxila) (on higher studies abroad)
19.	**Mustansar Ali Ghanzanfer**	BSc Engg (Taxila) (on higher studies abroad)
20.	**M. Naveed**	BSs Engg (Taxila) (on higher studies abroad)
21.	**Syeda Samana Naqvi**	BSc Engg (Taxila) (on higher studies abroad)

Program Objectives

The software engineering program implements the university's mission by facilitating the personal and professional growth of its students so that they can become effective contributors to the engineering profession and to society as a whole. Graduate of the software engineering program will:

- be able to unite theory with practice, be prepared and motivated to engage in lifelong learning, and have a solid foundation in mathematics and sciences.
- be productive practitioners skilled in applying engineering process and practice to software components and system.
- be proficient in oral and written communication, and effective in teamwork.
- actively demonstrate professional and ethical responsibility.
- have the broad educational and awareness of contemporary issues necessary to understand the societal and global impact of the profession.

Program Outcomes:

Upon successful completion of the software engineering program, graduate will:

- understand and be able to apply mathematics, physical sciences, computer sciences and related disciplines.
- understand and be able to apply principles of software engineering practice and process subject to realistic constraints

- be able to analyze, documents and track system requirements
- be able to design, implement and maintain software system
- be able to verify and validate software systems
- have an awareness of current industry standards and practices
- be able to work in one or more application domains
- understand and apply principles of team process and project management
- have strong oral and written communication skills
- be capable of independent learning
- understand professional responsible and the application of ethical principles have knowledge of economics, humanities and social sciences

The Department:

Software engineering degree program was started in 2002 with intake of fifty students. Initially, it was started in Electrical Engineering Department. Classes were conducted in evening session only. In the mean time, construction of separate building for department worth Rs. 40 million with funding from HEC (Higher Education Commission) has been started which completed in the year 2006. Building comprised six class rooms, six labs, one final year project lab, one girls common room, two examination halls, one cafeteria at the roof of building and twenty offices. Department has laboratories with sufficient hardware and computing facilities. Each computing lab is equipped with thirty PCs and each hardware lab is equipped with fifteen workstations. All computing labs are also networked. Department has wireless coverage as well.

Software engineering department also arrange different sort of events in order to encourage students to take part in those events and groom their technical as well as non-technical skills. The events that have been arranged so far are; programming exhibition (Term projects exhibition in JAVA, C# etc), Databases exhibition, annual students day, and the latest one was computing and engineering competition (mathematics, programming, electronics and projects competition)

Laboratories:

1. Electronics Laboratory

This lab is basically developed for the experiments of electronics subjects like Basic electrical engineering, Electric circuits, Electronics devices, Analog electronics, and Digital electronics. The lab is equipped with the latest equipment and all the required software packages used for simulation purpose.

2. Digital design & Signal Processing Laboratory

Experiments for the subjects like Digital logic design, Microprocessor systems, Microcontroller, embedded systems, Digital signal processing are conducted in this laboratory. This laboratory is equipped with state of the art equipment, along with all latest software used for the simulation purpose for above mentioned subjects.

3. Video & Image Processing Laboratory

The purpose of this lab is to conduct the experiments of Digital image processing, Computer vision, Machine learning, and Pattern recognition. All latest equipments are available in this lab with all the simulation softwares.

4. General Computing Laboratory

This is a general purpose lab for the students, who want to work on their assignments, term projects or any sort of research work.

5. Computing Laboratory

The purpose of the lab is to conduct practical work for various subjects like Introduction to computer, programming techniques, numerical methods, discrete structures etc. This lab is equipped with all necessary hardware and software facilities.

6. Final Year Project Laboratory

This lab is used by the students of final year to work on their final year projects. The lab is equipped with all the necessary facilities that help the students.

7. Advanced Networking & Wireless Laboratory

The purpose of this lab is to conduct the experiments of experiments of computer communication and networks, network security, wireless communication, communication system, signal and systems etc. This lab is equipped with all state of the art technology and related simulation softwares in this laboratory.

8. General Electronics Laboratory

This is a general purpose lab for the students who want to work on their assignments, term projects or any sort of research work related to electronics subjects.

Placement Bureau & Industrial Liaison Office at Software Engineering Department

Software Engineering Department believes that students are valued and offer efforts towards placement of these students in the industry. Placement bureau has been established for this reason. Bureau communicates with public and private sector and broadcast the opportunities among students. Onsite interview are arranged to facilitate employers.

Industrial liaison officer has been appointed at university level and industry-academia collaboration is on the way.

Societies:

Societies are developed in the department for the grooming of students so that they can serve as guideline for the students to choose their profession after their degree. Students entering in first semester are given orientation about these societies.

The major objective of these technical societies is to develop strong interaction among the scholars and faculty in their corresponding field of interests. Students from undergraduate and postgraduate programs and members from the faculty share their work with each others under the umbrella of these technical societies.

- **Gandhara Software Solution (GSS)**
  GSS is developed with the aim that students get extra handy experience on tools used in market so that they can polish there skills more effectively.
  Society counselor:
  Mr. Asjid Saleem

- **DOT-IT**
  DOT-IT is the project launched in collaboration with Network Centre of the University. The objective of this society is to understand challenges of communication and network industry in Pakistan and globally. To develop the skills, the project offers many courses international courses training like MCSE, CCNA and CCNP etc.
  Society counselor:
  Prof. Dr. Adeel Akram
  Chairman, Telecommunication Engineering Department

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

Chairman:

Prof. Dr. Adeel Akram

Professors:

1. Adeel Akram, PhD (Taxila)

Assistant Professors

2.	**Javed Asad,**	MSc Engg (Taxila)
3.	**Asim Shahzad,**	MSc Engg (ICT)
4.	**Sheheryar Saleem,**	MSc (Australia)

Lecturers:

5.	**Mian Shahzad Iqbal,**	BSc Engg (COMSATS)
6.	**Salman Azam,**	BSc Engg (on higher studies abroad)
7.	**Rashid Saleem,**	BSc Engg (on higher studies abroad)
8.	**Usman Masood,**	BSc Engg (on higher studies abroad)
9.	**Rameez Asif,**	BSc Engg (on higher studies abroad)

Program Objectives:

With the immense increase in the demand of telecommunication engineers, growth of global telecommunication industry, deregulation, privatization and rapid technological changes, UET Taxila established Telecommunication Engineering Department under the Faculty of Telecommunication and Information Engineering.

The department aims in imparting high quality education to the students with hands on training on the latest and emerging telecommunication technologies. For their engineers to measure up to international standards, the Telecommunication Engineering Department is inducting the cutting edge technology in the form of equipment and expertise in the form of faculty and professional training experts. This will help in achieving the University goals to produce engineers that are capable to take up any challenge in the industry and are able to perform their tasks efficiently with high precision.

The department offers undergraduate programs with the following objectives:

- Allow R&D and Professional Trainings in relevant technologies and areas including information Technology, Optical Fiber Systems, Digital Switching, Digital Subscriber Loop, Digital Radio systems, ISDN and Broadband Networks, Digital and Broadband Switching, Voice over IP, as well as Mobile and Wireless Communication Systems.
- Provide a pool of expertise for defining optimal technology paths for the evolution of Telecommunication networks and services. These experts will be able to design the future telecommunication networks in our country. They also provide consultancy services to the industry.
- To provide much needed technical manpower that are well versed with the myriad of new telecommunication products being floated in the world market today.

Program Outcomes:

Upon successful completion of the Telecom engineering program, graduate will:

- Understand and be able to apply principles of Telecom engineering practice and process subject to realistic constraints.
- be able to analyze, document and track system requirements
- be able to design, implement and maintain telecom systems
- be able to verify and validate telecom system
- have an awareness of current industry standards and practices
- be able to work in one or more application domains
- understand and apply principles of team process and project management
- be capable of independent learning
- understand professional responsibility and the application of ethical principles.

The Department

Established in 2007, Department of Telecommunication is concerned with the theory, development and application of telecommunication systems, their design and integration. The objective of the program is to provide students with a strong theoretical and practical background in field of telecommunication, along with the engineering analysis, design and implementation skills necessary to work between the two. The program involves study of complete telecommunication systems, technologies running on it and how these technologies can be developed. After successful completion of the Telecommunication Engineering degree, the graduates will gain a broad range of skills in the area of telecommunication with strong analytical and critical abilities. These graduates are ready to embark upon an exciting career in a diverse range of telecommunication technology-rich companies and industries. The department offers 4 years degree program of BSc in Telecommunication Engineering.

Laboratories:

1. **Electronics Laboratory**

This lab is basically developed for the experiments of electronics subjects like basic electrical engineering, electric circuits, electronics devices, analog electronics, and digital electronics. The lab is equipped with latest equipments and all required software packages used for simulation purpose.

2. **Digital Design & Signal Processing Laboratory**

Experiments for the subjects like Digital Logic Design, Microprocessor Systems, Microcontroller and Embedded Systems, Digital Signal Processing are conducted in this laboratory. This laboratory is equipped with state-of-art equipments, along with all latest softwares used for the simulation purpose for above mentioned subjects.

3. **Optoelectronics Laboratory**

Optoelectronics is the study and application of electronic devices that source, detect and control light, usually considered a sub-field of photonics. In this context, light often includes invisible forms of radiation such as gamma rays, X-rays, ultraviolet and infrared, in addition to visible light. Optoelectronics devices are electrical-to-optical or optical-to-electrical transducers, or instruments that use such devices in their operation.

Lab is designed to cover the projects regarding the electro-optic effect that relates to a change in the optical properties of the medium which usually is a change in the birefringence and not simply the refractive index.

4. **Wireless Information Technology Laboratory**

The purpose of this lab is to conduct the experiments of computer communication and networks, network security, wireless communication, communication system, signal and system etc. This lab is equipped with all state-of-art technology and related simulation softwares.

5. **Microwave and Optical Communication Laboratory**

The experiments in Optical Communications will enable the students to consolidate their knowledge and understanding of:

1. The characteristics of fiber optic communications systems and their component parts.
2. The fundamental characteristics of optical network analysis and the use of optical time domain reflectometry.
3. The basic principles of optical amplification, by the characterization of an EDFA, and to

develop an appreciation of the engineering applications of optical amplifiers and their limitations in these applications.

4. Optical amplification and lasers through experimental investigation of an EDFL.
5. The characteristics of optical fiber components, Wavelength Division Multiplexed (WDM) systems and fiber Bragg gratings.

6. **Centre for Advanced Networking and Wireless Communication (CANWiC)**

The CANWiC is designed to be a Centre of Excellence for Network and Wireless Communication studies, research and development. It addresses the requirements of three different levels of users i.e. undergraduate/postgraduate students, researchers, industry professionals. Undergraduate students are able to perform basic to advanced level experimentation in the area of wired and wireless networks.

CANWiC contains a dedicated area for final year student projects where undergraduate students can issue their project related equipments and get dedicated computers for use throughout their final project. The undergraduate student lab can serve up to 100 undergraduate students at a time.
Postgraduate students can perform research on Wireless Communication and Advanced Networking Technologies using state of the art equipment available in the CANWiC. They have a dedicated section where they have all the facilities available for their MS Thesis or PhD research. The section contains research cabins for all students to keep their equipment, stationary and other student materials/documentation under secure lock and key.

CANWiC is protected by a state of the art Biometric attendance and security system that controls the access of CANWiC. It is further protected by high performance surveillance system allowing us to provide CANWiC services without the requirements of any Lab staff around the clock.

CANWiC also contains a well equipped computer training lab where up to 50 students or Industry Professionals can be trained on Networks and Wireless related technologies by undergoing hands-on training and practical work on latest available equipment. Professional courses such as Cisco Certified Trainings, Structured Cabling Certifications, Firewall Trainings, Wireless Planning and Deployment Workshops etc. are offered for local students and public.

Under the directorship of Dr. Muid Mufti and Dr. Adeel Akram, CANWiC is aimed to provide international level educational facilities for the students as well as for the IT industry.

5. LIBRARY

5-A MAIN LIBRARY

The Central Library of the University plays a vital role in dissemination of knowledge, teaching, research, and extension services. It has a seating capacity for about 100 readers at its different halls, which provide congenial conditions for study. The reading halls remain open (2 shifts) from 8:00 am to 7:00 pm on all working days providing break for Jumma prayer 12:00 noon to 2:30 pm. The Library is stocked with encyclopedias, dictionaries, handbooks, standard specifications, yearbooks, almanacs, abstracts, indexes and a big reserve collection of text and general technical books

STOCKS AND SERVICES

The Library has more than **40000** volumes of books, 45000 volumes of bound serials, and scattered issues of scientific and technical serials on diverse fields. Besides engineering subjects considerable reading material on humanities, social sciences and Islamic Studies is available.

The members can borrow books and other materials, (except serials, reference or reserved books) for specific periods. They can also reserve materials, which are out in circulation. For this, reservation cards are to be handed over at the circulation counter. The Library provides photocopy service as well.

BOOK BANK AND CO-OPERATIVE BOOK STORE

The Library houses a Book Bank, which lends textbooks to the undergraduates for long periods on a nominal rent. Books, which are in excess of the requirements of the Book Bank, are sold to the students on a no-profit no-loss basis through its Co-operative Bookstore.

5-B DIGITAL LIBRARY

MISSION

To meet the information requirements of students, researchers of UET Taxila, Pakistan with the provision of quality scholarly information based electronic delivery Through Pakistan Educational Research Network (PERN). HEC has given the online access of journals and research papers to UET Taxila. Access to all these resources is free of cost from within the UET Taxila intranet for students and researchers of UET Taxila.

OBJECTIVES

To provide students/researchers in the university and eligible R&D organization with access to high quality journals, academic databases and articles across the widest range of disciplines.

To address the specific information needs of the sector with the delivery of content relevant to national development objectives.

- To support the delivery of information and effective use of information and communication Technologies (ICTs) with extensive training for users with the library university and research community in Pakistan.
- To work with international organizations to enhance the scope of available content and implements revolutionary technologies for the delivery of content.
- To provide increased dissemination opportunities and promote the use and visibility of locally produced research information.

CURRENTLY AVAILABLE RESOURCES

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
http://www.ieee.org/ieeexplore
AMERICAN SOCIETY OF MECHANICAL ENGINEERING
http://www.asme.org/
AMERICAN SOCIETY OF CIVIL ENGINEERING
http://www.asce.org/
ASSOCIATION OF COMPUTING MACHENERY
http://acm.org/pubs
Emerald
http://www.emeraldinsight.com
AMERICAN ASSOCIATION OF PHYSICS TEACHERS
http://www.appt.org/
SPRINGERLINK
http://www.springerlink.com
BLACKWELLSYNERG
http://www.blackwell-synergy.com
EBSCOHOST
http://search.epnet.com
OXFORD UNIVERSITIES
http://www.oupjournals.org
JSTOR
http://www.jstor.org/
SCIENCEDIRECT
http://www.sciencedirect.com
SCIENCEONLINE
http://www.scienceonline.com
PALGRAVE MACMILLAN
http://www.palgrave-journals.com/pal/
ISIWEB OF KNOWLEDGE
http://www.isiknowledge.com
ROYAL SOCIETY OF CHEMISTRY
http://www.rsc.org/is/journals/pri.htm
BENTHAM SCIENCE
http://www.bentham.org
AMERICAN CHEMICAL SOCIETY
http://pubs.acs.org/
AMERICAM MATHEMATICAL SOCIETY
http://www.ams.org/journals/
AMERICAN INSTITUTE OF PHYSICS
http://journals.aip.org/
AMERICAN PHYSICAL SOCIETY
http://publish.aps.org/
NATUREPUBLICATION
http://www.nature.com/nature
MARYANNLIEBERT
http://www.liebertonline.com
AMERICANSOCIETYOF MICROBOLOGY
http://journals.asm.org/

6. INFORMATION TECHNOLOGY CENTRE

There has been a major interest in Educational Computing since 1985 when a DEC's VAX-11/730 was installed with six terminals, one line printer and one dot matrix printer at the Data Processing Centre. Later In 1989, a Micro-VAX-3100 was procured with its 20 interactive terminals. High pace changes and alterations in trends, hardware and software, introduction of new and user friendly operating system & environments, built-in packages and world wide communication led the centre to switch over from the outdated VAX to personal computers LAN and WAN. The centre is, thus, equipped with 50 personal computers. The IT Centre is providing services to all the departments of the university.

The main objectives of the centre are

- *To train the students at undergraduate level to develop the programming skills.*
- *To provide research aid facilities to the post-graduate students.*
- *To provide advisory services to the teachers and research scholars of the university.*
- *To computerize different procedures of the university's administrative departments.*
- *To provide training to the engineers/officials of the surrounding industrial Organizations.*

The students are given extensive “Hands on” training on Pentium computers which enhances their experience of working in an on-line environment. Short courses in various programming languages and application packages are also offered in the evening time. The centre is committed for the promotion of Information Technology and its facilities are being upgraded according to the developments in this field.

7. NETWORK ADMINISTRATION AND RESEARCH CENTER (NARC)

Director Networks
Dr. Adeel Akram PhD (Taxila)

System Administrator
Engr. Shahbaz Pervez Chattha MSc Computer Engg. (Taxila)

Web Manager
Syed Muhammad Adnan MCS (SIIT)

Manager Software Development
Muhammad Huzaifa MCS (BIIT)

MISSION

NARC Research Facilities:
Network Administration and Research Center (NARC) was founded to provide better support and services to the University. NARC is an outcome of University Computerization and Network Enhancement Program (UCNEP) project. Under UCNEP project, state of the art equipment was procured and latest technology was introduced to enhance the quality of communication infrastructure, existing Lab facilities and processes of the University.
NARC is responsible for design and development of networking infrastructure within University campus and sub campuses. It also provides 24 hour research facilities for PhD scholars and researchers.

NARC staff comprises of highly skilled, well qualified and technically competent workers who perform their tasks as a passion of their life.

NARC is not only limited to provide services to the University and its sub campuses, it also helps in providing technical assistance to other projects of national interest. NARC staff is actively involved in providing consultancy services to other universities and educational institutes, thus contributing towards the development of IT infrastructure of Pakistan.

NARC provides 24 hours research facilities to PhD scholars and researchers. All facilities provided by NARC are available round the clock. This includes Digital Library which provides free access to research papers and technical material from leading international forums and organizations around the world. It also provides High Performance Computing (HPC) facilities for students and researchers.

Necessary equipment required to complete the students in their mini and final year projects is provided free of cost to the students. Moreover technical guidance is also provided to them. NARC hosted the 17th International Conference on Microelectronics (ICM'05) held in December 2005.

NARC is currently providing support in the following areas:

- Adhoc networks
- Network Routing
- Network Simulation
- Stateful inspection Firewalls
- Optical Fiber
- Secure VoIP communication
- Clusters and Grid Computing
- GPS and GIS

- Advanced Operating Systems
- GSM, GPRS and other Mobile technologies
- PHS and CDMA WLL
- WiFi & WiMAX
- Blade Server
- Students Email Service using Goggle Apps
- Central Storage System for Faculty

NARC is working in collaboration with national and international technological leaders to provide state of the art equipment and cutting edge technology to the University.
NARC is also working as Cisco Local academy for Cisco certification courses.

8. DIRECTORATE OF ADVANCED STUDIES, RESEARCH AND TECHNOLOGICAL DEVELOPMENT (ASRTD)

The Directorate of ASR&TD, which functions under the supervision of the Director, is the secretariat of the Board of Advanced Studies, Research and Technological Development. The Board comprises the Vice-Chancellor (Chairman), all the Pro-Vice-Chancellors, all the Deans, one University Professor from each faculty, one technologist, five members from the Industries and the Director of ASR&TD.

The Directorate performs a variety of functions to promote research, extension and advisory services in the University. The purpose of these functions is to:

a) Regulate MSc and PhD programs.

b) Provide funds and monitor faculty research.

c) Provide funds for M.Sc. Engg. and PhD research.

d) Approve thesis titles, supervisors and examiners.

e) Co-ordinate the Split PhD program with foreign Universities, Government of Pakistan.

f) Arrange visits of Pakistani Experts to give Workshops/Seminars in their field of expertise under TOKTEN program.

g) Arrange visits of foreign Professors to the University and vice-versa.

h) Award of Research Assistant-ships.

i) Sponsor collaborative research work in engineering and allied disciplines at the University and promote the research work.

j) Assist the Departments in organizing Post-graduate Programs, extension lectures and seminars.

k) Coordinate advisory services of the University for the benefit of the Government departments and industries.

l) Arrange evaluation of Research publications of faculty members and publishing of Research Journal of the University.

m) Make arrangements for Extension Lectures of Senior Professors from foreign countries, under the proposed British Council Specialists visits to Pakistan and TOKTEN Schemes.

n) Arrange for PhD Programs in the University.

o) Regulate an endowment fund for Higher Education and R&D in IT & Telecom Division at University of Engineering & Technology, Taxila, created for an amount of Rs. 100 million. The main objective for the establishment of endowment fund is to provide a continuous service of funding the University for producing around four PhD and six MSc in the field of Signal Processing every year. Fund would be available for manpower development in the following fields:

- **i.** Computer/Data communication
- **ii.** Image Processing
- **iii.** Simulation and Modelling
- **iv.** Wireless communication

9. DIRECTORATE OF STUDENTS AFFAIRS

The primary function of the directorate is to organize extra-curricular activities of the students and to foster their intellectual, literary, and artistic potentialities, which remain untapped in the classroom. It functions normally through a large number of clubs and societies; each devoted to some sport or cultural and artistic activity. The students join these clubs and societies according to their inclinations and aptitudes. Another function of the directorate is to maintain liaison with a wide cross-section of students and to be responsive to their needs and problems. The directorate also works to promote, amongst students, respect for the dignified and disciplined behaviors befitting a university student and prospective member of the honored community of engineers of Pakistan.

10. DIRECTORATE OF UNDERGRADUATE STUDIES

The primary function of the directorate is to plan and organize undergraduate teaching and notify schedule for each academic session. The directorate coordinates academic activities of the departments and acts as liaison office between the academic departments for the smooth conduct of courses. It also monitors the teaching progress and ensures the timely completion of courses by the respective department.

The Directorate also assists the Students Section to the following matters.

- **i.** Registration of fresh entrants
- **ii.** Scholarships and Stipends
- **iii.** Migration Cases
- **iv.** Verification of Documents

11. DIRECTORATE OF SPORTS

The University provides ample facilities to the students for participation in games and sports, both outdoors and indoors. A Sports Committee comprising University teachers supervises the sports activities. Facilities are provided for all the major sports including cricket, hockey, football, tennis, badminton, basketball, squash and athletics. A series of inter-faculty and inter-hostel tournaments are held to provide participation to the maximum number of students. Outstanding sportsmen are encouraged to take part in the inter-university tournaments.

The outstanding players are also participating in National level events likely hockey, volleyball and athletics. The exercise facilities are provided in the Gym in early morning and in the evening. Major types of fitness and exercise machines are available in the university.

12. FINANCIAL ASSISTANCE

The University has constituted a Students Welfare Society (SWS) to provide financial assistance to the most deserving students to defray tuition fee and hostel dues from the following financial resources:-

1. Donations
2. Fund raising campaign.
3. Earning from Endowment Fund established for the purpose with an amount of Rs.5.000 Million.

The concerned students will apply on the prescribed form obtained from the office of Director Students Affairs.

13. HALLS OF RESIDENCES

The University has ample provisions for hostel accommodation at the Campus for both male and female students. The halls of residence for male students have an accommodation for about 1000 students and are named as:

- Quaid-e-Azam Hall
- Iqbal Hall
- Umer Hall
- Usman Hall
- Ali Hall

Another hall with the accommodation for 400 students is under construction. A separate hall for international students is being planned to be constructed in near future.
The hall of residence for female students is named as:

- Ayesha Hall.

It has an accommodation for 200 students.
The management of the halls is supervised by the Senior Warden. Each hall is looked after by Resident Tutor/s being faculty members.
The students themselves manage many aspects of life in the halls. The halls are provided with common rooms, dining halls, canteens, mosques and other such places of common utility. Each hall has its own mess with adequate messing and dining facilities. The mess is run on a no-profit no-loss basis. A Students Mess Committee under the supervision of a Resident Tutor regulates the weekly menu, finances, billing and quality of the food.
The students are required to abide by the rules and regulations governing residence in the University halls and are encouraged to develop community life conducive to healthy growth of the social aspects of their personalities.

Internet Facilities in the Hostels

The University has 16 Mbps internet bandwidth from PERN (Pakistan Educational Research Network) and provides high speed internet connectivity to all residents students in the hostels.
All the rooms of Iqbal Hall are connected with LAN of the University through five switches deployed at RT Room. These switches are connected to the Network Administration and Research Center (NARC) through optical fiber connectivity. The resident students are allowed to use LAN facilities in their rooms to make their assignments and other research work assigned to them.
Quaid-e-Azam Hall is also connected through optical fiber with NARC. While the other hostels are connected through UTP cables. The students are provided with Wireless Connectivity in these hostels.

Extra Curricular Activities in the Hostels:

Besides providing adequate residential and messing facilities in the hostels, due consideration is also given to encourage the resident students to engage themselves in healthy physical and character building social activities.
For the purpose, various societies and clubs have been formed in the hostels. The functioning of these societies and clubs is monitored and supervised by the Senior Warden and are supported with financial assistance to promote sports and social activities in the hostels.
The most important societies and clubs functioning in the hostels are briefly described as under:-

Hostels Arts & Literary Society (HALS)

Being one of the most active and widely recognized society in the campus, it has added colors to the campus life.

The main objective of the society is to promote art, culture and literary abilities of the resident students and to boost up their confidence to perform in front of the people.

The society arranges and organizes:

- Qirrat and Naat competitions
- Dramatic and Cultural Shows
- Singing Competitions
- Sketching and Poster Competitions
- Declamation Contests, Debates and Discussions
- Quiz Competitions
- Story and Essay Writing
- Mehfil-e-Mushaira, Bait Bazi Sessions and such other activities

Hostels Athletics & Sports Club (HASC)

The Hostels Athletics & Sports Club has been formed to arrange and organize the sports activities for resident students in a proper and orderly manner.

The ultimate aim of the club is to produce the best athletes and sportsmen with good sportsman spirit for the University and for participation in the inter university tournaments. For this purpose, the club organizes friendly matches and competitions amongst the resident students throughout the year.

UET Adventure Club (UETAC)

The idea for having an adventure club is to provide an opportunity to the students to escape from the daily routine of the busy campus life and be able to enjoy the wilderness and natural resources of the mother nature.

The main objective of the adventure club is to organize and promote hiking, mountaineering, jogging, boating, excursion trips and other related activities.

Efforts will be made to affiliate the club with the Adventure Foundation of Pakistan and the Alpine Club of Pakistan. First Aid Training will also be arranged for the members of the Adventure Club.

14. ESTATE OFFICE

The University Campus spreads over 163 acres of land, and requires considerable efforts to keep the gardens, lawns, roadside rows of trees and flower-beds in good trim. The efforts of this office give the Campus a pleasing look, which attracts a large number of visitors in the mornings and evenings.

For the convenience of the students, a shopping centre is located near the University hostels. This centre has a laundry, a general store, stationery and fruit shop. The office looks after security, sanitation, maintenance of lawns and gardens, and shopping facilities at the campus. It has a large squad of uniformed watchmen who guard the University buildings and property. Its sanitation staff keeps the buildings, roads, lawns, and other spaces clean and tidy.

15. HEALTH FACILITIES

The University provides medical facilities to its employees and students. Salient features of the existing health policy for students are listed hereunder:

1. Students will be provided free consultation by the Medical Officer.
2. Available medicines will be issued to students through authorized prescription only.
3. Night dispensary service will be available in emergency only.
4. In acute emergency, where a student cannot move, immediate report be made to RT who will make arrangements for further treatment under rules (i.e. ambulance, consultation, admission etc.). The expenditure shall be borne by the student.
5. Boarders will be required to fill in the proforma of previous medical history mentioning the disease he carries.
6. Indoor treatment from unauthorized medical attendants is not allowed.

16. TRANSPORT

Adequate transport facility is provided for students and the buses are plying between Rawalpindi, Islamabad, Hassan Abdal, Wah Cantt. And the campus. This facility is, however, not obligation of the University and it can be reduced or terminated if the policy and/or the financial conditions so demand.

17. ADMISSION/REGISTRATION/ PLACEMENT OFFICE

The Section deals with matters relating to admission, registration and placement of students at undergraduate level and verification of documents, migration cases and miscellaneous certificates under the charge of Registrar.

18. DUES/SCHOLARSHIP SECTION

The Section deals with all kinds of fees/dues, scholarship, stipends, loans and fee concession under the charge of Treasurer

19. TEACHING AND EXAMINATIONS

Regulations Relating to Semester System of Teaching and Examinations for Bachelor Degree Programs of the University of Engineering and Technology, Taxila

A. Short Title, Commencement and Applicability:

1. These Regulations shall be called "The University of Engineering and Technology Taxila Regulations Relating to Semester System of Teaching and Examinations for Bachelor Degree Programs, 2007".
2. These shall come into force with immediate effect from undergraduate degree programs Entry-2007 of the University.

B. Definitions:

- "Academic Council" means Academic Council of the University.
- "Academic Year" means a year normally consisting of two regular (i.e. Fall and Spring) semesters of 18-20 weeks duration each and one optional (i.e. Summer) semester of 9-10 weeks duration inclusive of examinations, internships or any other academic activity.
- "Board of Undergraduate Studies" means the Board of Undergraduate Studies of the concerned Academic Department of the University.
- "Candidate" means a student who intends to appear in an Examination.
- "Casual Student" means a student who is not on the rolls of the University after passing out his session but is otherwise eligible to take the courses and to appear in the examination. He shall, however, be governed by the University Examinations and Discipline Rules & Regulations.
- Chairman" means the Chairman of the concerned Academic Department of the University.
- Controller of Examinations" means the Controller of Examinations of the University
- "Contact Hours" means the total number of lectures, tutorials and laboratory hours per week.
- "Course Teacher" means a person appointed by the competent authority, who teaches a course and then evaluates the students as per University rules and procedures.
- "Credit Hour" means 1 hour of theory lecture or 3 hours of practical work per week for the semester.
- "Cumulative Grade Point Average (CGPA)" means the credit-hour weighted average of the Grade Points earned for all the courses in all the semesters attended.
- "Dean" means the Dean of the concerned Faculty.
- "Department" means an Academic Department of the University.
- "End Semester Examination" means the examination to be held at the end of each semester on such dates as the University may determine.
- "Faculty" means the concerned Faculty of the University.
- "Grade" means the letter grade earned by a student in a course depending on his performance in that course.
- "Grade Points" means the points (numerical value) associated with each letter grade.
- "Mid Semester Examination" means the examination to be held after 7-8 weeks of teaching in case of regular semesters and after 4 weeks of teaching in case of optional semester on such dates as the University may determine.
- "Regular Student" means a bonafide student of a degree program of this University who does not maintain admission simultaneously in any other degree/diploma program of this University or any other institution.

- "Semester" means a declared duration covering 18-20 weeks of teaching in case of regular semester and 9-10 weeks of teaching in case of optional semester including examinations.
- "Semester Grade Point Average (SGPA)" means the credit-hour weighted average of the Grade Points earned for all the courses in a semester.
- "Subject" means a course of studies as prescribed in the detailed syllabi approved by the competent authority, whose successful completion shall be the requirement of the Degree.
- "Syndicate" means the Syndicate of the University.
- "University" means the University of Engineering and Technology Taxila.
- "Vice-Chancellor" means the Vice-Chancellor of the University.

C. Explanations:

In these regulations: -
The pronoun "he" and "its" derivatives are used for both male and female persons.
Depending upon the context, the words imparting the singular number include the plural number as well, and vice-versa.

D. Academic Programs:

Bachelor of Science Degree shall be awarded in the following disciplines:

a) Civil Engineering
b) Computer Engineering
c) Electrical Engineering
d) Mechanical Engineering
e) Software Engineering
f) Telecommunication Engineering
g) Electronics Engineering (at Chakwal Campus)
h) Mechatronics Engineering (at Chakwal Campus)
i) Any other discipline as approved by the University Authorities

E. Academic Calendar:

The Bachelor's Degree Programme shall be spread over four academic years. Each academic year shall consist of two regular teaching semesters i.e.; Fall and Spring and an optional Summer semester. Summer semester shall be primarily for those students who want to repeat / improve certain courses to make up for their academic deficiencies
In case of regular semesters i.e. Fall and Spring semesters, there shall be sixteen weeks of teaching. The seventeenth week shall be of preparatory holidays for End Semester Examination which shall be held in the eighteenth week. While in case of Summer semester, ninth week shall be for End Semester Examination.
The Director Undergraduate Studies shall notify academic schedule of complete year for its fall, spring and summer semesters for the convenience of students and faculty members mentioning the following:

i) Semester starting date
ii) Holidays during the semester
iii) Mid semester examination week
iv) Semester termination date
v) End semester examination week

Students shall be responsible to meet the requirements and deadline published for each semester in the academic calendar. Students shall also be expected to know and adhere to the rules, regulations, course loads and policies of the university as well as those of the departments in which they are enrolled.

Part-I. GENERAL

a. The minimum duration of the degree program shall be four academic years. While the maximum duration allowed is seven years.

b. Not withstanding anything to the contrary contained in these regulations, no candidate shall be admitted to an examination after the expiry of seven academic years. This period shall be counted from the date of his registration to the first semester in the University. Provided that in case a candidate is admitted directly to a higher class, he shall not be admitted to an examination after the expiry of the remaining period for the session to which he is admitted.

c. The total number of credit hours required for the award of degree shall be 130-136 while the number of credit hours per semester shall be 15-18. The courses of study, the credit hours allocated to each subject and the detailed syllabi shall be as approved by the competent authority.

d. A minimum CGPA of 2.0 for the total semesters of a degree program shall be required for the award of degree. The student affected by this regulation shall have the option to repeat the courses in which his grade is less than C within the maximum allowable time period.

e. An academically deficient regular student shall be allowed to repeat / improve the courses during the summer semester only. While the academically deficient casual student shall be allowed to repeat/ improve the courses either during summer semester or whenever the teaching and examination schedule makes it possible for him to register himself for the courses and to take the End Semester Examination. In case of repetition/ improvement of a course the student shall have to pay course registration and examination fee as prescribed by the University.

f. An academically deficient student shall be allowed to get himself registered for 06 credit hours at maximum in a summer semester. The contact hours during the summer semester shall be doubled to ensure that the course is completely taught in a summer semester with half of the duration compared to a regular (Fall or Spring) Semester.

g. The registration, attendance, conduct of examination and result display policies etc. during the summer semester shall be followed as that in case of regular semester. Letter grade awarded during summer semester shall not be more than a 'B' grade.

h. The medium of instructions and examinations shall be English for all subjects except Islamic Studies and Pakistan Studies for which the medium of instructions and examinations shall be either Urdu or English.

Part-II. SEMESTER REGISTRATION

The registration of the students for each semester other than the first semester shall be made by the concerned Academic Department of the University. The registration for the first semester shall be made by the Registrar of the University.

a) The registration of the students for each semester shall be made in accordance with the Academic Calendar notified by the Director Undergraduate Studies. The application forms shall be available from the office of the Chairman of the concerned Department. The students shall submit the forms duly filled up to the Chairman of the Department. After necessary verifications, the Chairman of the Department will notify the list of registered students within 10 days of the start of regular semester and four days of the start of summer semester.

b) In case of a regular semester if a student misses his registration for cogent reasons, and applies for it within 10 days of the notification of the list of registered students, he may be allowed to get himself registered with his class by the Dean of the Faculty concerned. He will, however, be charged the re-admission fee as prescribed under the rules. He shall not claim any other relaxation in the rules governing teaching and examinations.

c) If a student fails to get himself registered for a regular semester within the prescribed time, his name shall be deemed to have been struck off the University Rolls and he shall not be allowed to appear in any examination.

Part-III. ATTENDANCE REQUIREMENTS

No candidate shall be admitted to an End Semester Examination unless the following conditions are fulfilled: -

a) He has been on the rolls of the University during the semester for which the examination is being held, unless allowed by these regulations to take examination in order to repeat/improve a course.

b) He is not debarred from taking the examination under the University rules and regulations for the time being in force.

c) He has attended a minimum of 75% of the total number of lectures delivered, the laboratory periods held, design and practical work done in a course during the Semester for which the examination is held.
The Dean of the concerned faculty may, for valid reasons, condone this deficiency upto 10% on the recommendations of the Chairman of the department in consultation with the course teacher concerned.

d) If a student does not fulfill the condition of attendance, he shall be awarded an F-grade in that course and will have to re-register for that course in the summer semester in which the course is offered.

e) The course teacher concerned will prepare the attendance record and will display and forward the list of such candidates who do not fulfill the condition of attendance to the Controller of Examinations through the Chairman of the Department immediately after the completion of the teaching session. Such candidates shall not be allowed to appear in the end semester examination of that course.

f) At the end of each month, the teacher concerned shall send to Chairman of the Department, a statement giving the total number of lectures delivered and practicals conducted by him together with the number of lectures and practicals attended by each student.

Part-IV. CONDUCT OF EXAMINATION

A. Students Evaluation System:

The performance of every student shall be continuously monitored and assessed throughout the semester. During the semester a student's performance shall be evaluated by taking quizzes, assignments, mid semester examination, laboratory reports, and project presentations etc. An end semester examination shall also be taken at the end of each semester covering the entire syllabus.
The course teacher shall be responsible for the evaluation of work/performance of the students of his class and for the award of grades to them on the basis of such evaluation.

B. Grading Mechanism

Course grades shall be awarded to the students preferably based on their relative performance in the course. Grading shall be usually carried out on the basis of normal distribution curve using statistical methods with B as the class average. However, the course teacher's decision in this regard shall be considered final. Grades shall be indicated by letters.
There shall be 4-letter grades i.e. A, B, C & D for individual courses with 9 performance levels e.g;

Letter Grades	Performance Levels
2As	A & A$^-$
3 Bs	B+, B & B$^-$
3Cs	C+, C & C$^-$
1 D	Simple D
F	Fail
I	incomplete

The grade points assigned to the letter grades shall be indicated as under:

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

The following guideline for the award of Letter Grades can be followed by the course teachers.

Marks (%age)	Letter Grade
90-100	A
85-89	A^-
80-84	B^+
75-79	B
70-74	B^-
65-69	C^+
60-64	C
55-59	C^-
50-54	D
<50	F

C. Semester Grade Point Average (SGPA)

The semester grade point average (SGPA) shall be calculated by multiplying the grade points earned in a course with the number of credit hours of that course, taking the sum of such products for each course taken in that semester and finally dividing the result by the total number of credit hours registered in that semester.

D. Cumulative Grade Point Average (CGPA)

The cumulative GPA (CGPA) shall be calculated similarly (as that for SGPA) for all the courses taken in all the semesters of the degree programme

E. Evaluation Components:

a) Sessional Awards:

i) **Quizzes**: There shall be an appropriate number of unannounced quizzes per subject in a semester.

ii) **Mid Semester Examination**: There shall be one mid semester examination of 1.5 to 2.0 hours duration per subject in a semester after seventh or eighth week of teaching in case of regular semester and after fourth week in case of optional semester.

iii) **Home Assignments / Mini Projects**: There shall be an appropriate number of Home Assignments and / or Mini Projects per subject in a semester.

iv) **Laboratory Reports**: The students shall submit laboratory reports on each laboratory practical held, which the course teacher will evaluate. In this case each experiment, design, drawing, project or assignment shall be considered an examination.

b) End-Semester Examination:
There shall be one End-Semester Examination of 2.00 to 3.00 hours duration covering the entire course at the end of each semester. The examination shall commence one week after the termination of teaching session.

F. Weightage of Evaluation Components:-

The final grade shall depend on the marks obtained in each of the evaluation components listed above. The weightage given to each component is as follows:

Evaluation Component	Weightage
Unannounced Quizzes	10%
Mid Semester Examination	20%
Home Assignments / Mini Projects	10%
Laboratory Reports	20%
End-Semester Examination	40%

In case of courses not having any laboratory / practical work, the weightage of End Semester Examination shall be 60%. While in case of courses having only laboratory / practical work, the weightage of laboratory reports shall be 100%.

G. Choice of Questions:-

There shall be no choice of questions in any of the evaluation components.

H. Absence from Examination:-

Absentees in any of the evaluation components shall be awarded zero marks and no make-up or repeat tests shall be arranged.

I. Maintenance and Display of Sessional Awards:

a. The marked scripts of each examination component except that of end semester examination shall be shown to the students by the concerned teachers. In case a student is not satisfied with his awards and/or clarification from the teacher concerned, he may make written complaint to the Chairman of the Department who will refer his case to the Departmental Semester Committee. The decision of the Committee shall be final.

b. The teacher concerned shall prepare four copies of the sessional awards. He shall retain one copy with him; shall send one copy each to the Chairman of the Department concerned and the Controller of Examinations immediately after the completion of the teaching session. He shall also display a copy of the sessional awards on the Notice Board before the start of end semester examination.

J. Place and Conduct of Examination

Each Mid and End Semester Examination shall be arranged/ conducted by the Controller of Examinations at the respective campuses of the University.

K. Date Sheet

The Controller of Examinations shall issue the date sheet for each mid and end semester examination. Each examination shall be held on consecutive days excluding holidays which means that no gap shall be allowed between the two papers

L. Paper Setting and Marking of Scripts for End Semester Examination

For all examinations, the course teacher or teachers of a subject shall set the question paper of that subject covering the entire syllabus, supervise its examination, mark the answer scripts and prepare the award list.

a. The course teacher shall mark the scripts for end semester examination and prepare the award list on the prescribed form. He shall send the award list along with the marked scripts to the Controller of Examinations under sealed cover within the specified time limit.

b. The course teacher shall be responsible to ensure that there is no discrepancy in the marks entered in the award list, the marks entered on the cover page of the scripts and the marks awarded to the questions in the scripts. A fraction of half or more shall be counted as one mark and less than half ignored.

c. The time limit for marking the scripts shall be seven days. If a teacher cannot mark the scripts within the prescribed time limit due to unavoidable circumstances, he may obtain prior permission from the Controller of Examinations for extension of time before the expiry of the prescribed time limit. The extension in time limit shall, however, not be more than four days.

M. Final Year Project

In the final year, students shall be required to do a project which is assigned six credit hours, two credits in the seventh semester and four credits in the last semester. A list of available projects shall be notified at the start of the academic year. Students shall be required to consult their faculty advisors for the selection of a project. Students shall be required to complete their projects and present their reports (in a hard-bounded form) before the end of the final examination of their last semester. A committee nominated by the Chairman of the Department including the project supervisor as a member and approved by the Vice-Chancellor shall evaluate these projects at the end of seventh and eighth semesters. The eighth semester project evaluation shall be held after the examination week and shall be followed by an open presentation

N. Summer Internship

Every student shall be required to participate in an eight weeks practical training program during the summer of their second or third year and submit a formal report to the Chairman of the Department. Though, non-credited, the summer internship shall appear on the transcript.

O. Final Award

The final award once received by the office of the Controller of Examinations shall not be liable to a subsequent change except with the permission of the Vice-Chancellor.

P. Notification of Result

As soon as possible after the completion of the examination, the Controller of Examinations shall notify the result.

Q. Re-Checking of Answer Scripts

There shall be no re-evaluation of answer scripts of the end semester examination. However, a candidate shall be allowed to have his answer scripts rechecked by the Controller of Examinations on payment of prescribed fee within 15 days of the declaration of the result. The Dean of the Faculty concerned may condone the delay up to a maximum period of 10 days on payment of double fee. The Controller of Examinations shall certify that:-

a) The script has not been changed.
b) No portion of the script has been left unmarked.
c) The marks awarded in the script have been correctly brought out on its cover.
d) The grand total on the cover of the script is correct.
e) The grand total on the cover of the script is correctly transferred to the award list.
f) The result has been correctly posted and notified.

R. Academic Deficiencies

A student who obtains one or more of the following in a semester result, shall be considered academically deficient:

i) One or more "F" grades in a semester.
ii) One or more "I" grades in a semester
iii) SGPA less than 1.00 at the end of 1st semester
iv) CGPA less than 2.00 at the end of an academic year

a) Academic Dismissal

A student who fails to obtain a minimum GPA of 1.0 at the end of 1st semester of a degree program shall be placed on academic probation for the 2nd semester. In case, he fails to improve his CGPA to 1.0 at the end of academic year including summer semester opportunity for the failed courses of 1st and 2nd semesters, his name shall be removed from the rolls of the University.

Also, the name of student, who fails to obtain a minimum CGPA of 2.0 even after two detentions, shall be removed from the rolls of the University.

Students dismissed on academic grounds shall, however, be furnished with an official transcript indicating the course completed along with grades earned in registered courses.

b) Academic Detention

- Detention means that a student shall be asked to recommence his studies from an appropriate lower semester by joining a junior class.
- A student shall be detained if he fails to maintain a minimum CGPA of 2.00 at the end of every academic year including summer semester opportunity for academically deficient students.
- In case of repetition of a course, the new grade earned would replace the previous grade, whether high or low.
- A student who is detained shall have the option to repeat all the courses being taught in that academic year or only those in which his grade is less than "C" to improve his CGPA.

S. Incomplete (I) Grades

A student may be awarded "I" grade in a course, if he is not allowed to take the End Semester Examination, or if cannot take the End Semester Examination due to permissible reasons. The Chairman of the concerned Department shall decide whether the reasons were permissible or not. The appeal may be filed with the Dean of Faculty concerned whose decision shall be final.

A student awarded "I" grade due to reasons other than the attendance requirements in a course may appear in the End Semester Examination of that course whenever held in a summer semester and / or when the examination schedule makes it possible for the student to take the examination after completing the requirements which make him eligible to appear in the examination of the said course.

T. Repeating Courses / Improving Grades

a) If a student obtains 'F' Grade in any course, he shall have to repeat that or an equivalent course. Similarly whenever a student obtains a grade lower than 'C", he can repeat that course to improve his grade. A student shall be allowed to repeat a maximum of six courses (18 credit hours) to improve the grades.

b) An academically deficient regular student shall be allowed to repeat / improve the courses during the summer semester only. While the academically deficient casual student shall be allowed to repeat/ improve the courses either during summer semester or whenever the teaching and examination schedule makes it possible for him to register himself for the courses and to take the End Semester Examination. In case of repetition/ improvement of a course the student shall have to pay course registration and examination fee as prescribed by the University.

c) As soon as a student repeats a course, his previous grade for that course whether low or high shall be cancelled, and only the latest grade earned by the student shall be considered for the computation of CGPA. It shall be noted that a student can only improve a grade lower than "C".

d) In case a student repeats the course which has already been taken, the old grade will be substituted with the new grade, (for CGPA calculation) but in case a student takes a new course in lieu of the course in which he failed, both the grades will reflect on his transcript, i.e. old course grade and new course grade.

U. Withholding of Final Semester Result

The result of final examination of a candidate, who is allowed to appear in the final semester examination while carrying courses of the lower semesters, shall not be declared till he has cleared the courses of the lower semesters. His final semester result will be declared with the session in which he clears his last course of the degree program.

V. Transfer of Credits

Transfer of credits shall be applicable only for those students who have been migrated to this University. Credits for only those courses shall be transferred which fulfill the following criteria:

- Credits can only be transferred from a PEC (Pakistan Engineering Council) accredited programme.
- A course with similar title, standard, duration, credit hours and matching course description is available in the relevant academic programme of the University. The course equates in description and laboratories work (if any) with the similar course of the relevant academic programme of the University. The duration of the course must be same or more than the duration of the course in the programme of the University.
- The candidate should have secured at least "B" grade in that course as per the grading system of the University.
- A maximum of 50% of the total credit hours of the relevant academic programme of the University shall be allowed for transfer.
- Transfer fee as prescribed by the University, shall be paid by the candidate.
- Transfer of credits is considered on the basis of course contents and credit hours to be decided by the Departmental Semester Committee.

W. Award of Degree

A candidate shall be admitted to the degree if:

a) He has earned total credit hours required for the degree within the prescribed duration of the degree programme.

b) He has obtained pass grades in all the courses offered in a semester.

c) He has passed all the semesters of the degree programme in the relevant discipline with CGPA 2.00 or more.

d) In case of the degree in Civil Engineering he has attended and satisfactorily completed annual survey camp organized by the University as certified by the Chairman of the Department.

X. Award of Honours

A candidate shall be declared to have obtained the degree with Honours and the fact shall be recorded on the provisional certificate as well as on the degree, provided that:

a) He has fulfilled all the requirements for the award of degree.
b) He has obtained CGPA of 3.7 or more.
c) He has not failed in any course of the entire degree program.
d) He has passed within the minimum duration of the degree program laid down in these regulations.
e) He has not been granted exemption in any course.
f) He has not improved any grade in the entire degree programs.

Y. Award of Medals

A candidate who fulfills all the requirements for the award of degree with Honours shall be entitled to the award of a medal for overall best performance on the basis of combined eight semester examinations result in each discipline.

Z. Semester Grade Sheet

A grade sheet shall be issued to each student after the declaration of semester result on the payment of prescribed fee. This sheet shall indicate the grades and GPA earned by the student in a semester.

AA. Transcript of Awards

A Transcript of Awards shall be issued to each student after completion of the degree programme on the payment of prescribed fee.

AB. Provisional Certificate

A candidate who fulfills all the requirements for the degree shall be issued a provisional certificate on the payment of prescribed fee before the issuance of the degree. This provisional certificate will not itself confer any right or privilege for admission to the degree.

AC. University Degree

The degree shall normally be issued to the graduates at the time of University Convocation without any fee. However, a graduate after obtaining the provisional certificate can apply for the issuance of degree before convocation on the payment of prescribed fee. The fee shall also be charged from the graduates who receive the degree in absentia after the convocation.

AD. Issuance of Certificates / Degrees

Subject to fulfillment of the prescribed requirements and submission of the prescribed application form with fee for issuance of a degree, certificate or duplicate copy thereof:

- Degree will normally be issued within two months of the receipt of the application, and

- Any other certificate or duplicate copy (other than degree) thereof will ordinarily be issued within six days on the receipt of the application form.

***Note**: A candidate shall deposit double the prescribed fee if he requires a certificate or duplicate copy (other than degree) within 48 hours.*

AE. Certificate Fees

The fee to be charged for various certificates shall be as under:

a)	Semester Grade Sheet	Rs. 150
b)	Transcript of Awards	Rs. 1000
c)	Provisional Certificate	Rs. 500
d)	Degree in Absentia/Degree Before Convocation	Rs. 1000
e)	Any other Certificate	Rs. 150
f)	Duplicate Certificate/ Degree	Double of the normal fee
g)	Verification fee of University Degree/Certificates:	
	Degree/ Transcript of Awards	Rs. 100 each
	S.G. Sheet/ Provisional Certificate/ Any other Certificate etc.	Rs. 50 each

AF. Other Fees

a)	Examination Fee	Rs. 600 per semester
b)	Summer Semester Registration Fee	Rs. 1000 per credit hour
c)	Rechecking of Answer Script Fee	Rs. 300 per script

Note : The rate of fee may be revised by the University Authorities from time to time

AG. Disposal of Marked Answer Scripts

The marked answer scripts of a particular mid and end semester examinations shall be retained in the office of the Controller of Examinations for a period of two years. After this period, the scripts shall be disposed off accordingly.

AH. Departmental Semester Committee

a) Constitution of the Committee

Each Department shall have a Departmental Semester Committee constituted by the Vice Chancellor comprising the following:-

i) Chairman of the Department
ii) Two/ three senior most faculty members
iii) The teacher concerned may be co-opted in case of complaint of the students.

b) Functions of the Committee

- Ensure content coverage of courses by comparing test with the course outlines and work plan provided by the teacher.
- Monitor classroom activities as reflected in the course outlines.
- Examine all problems regarding uniformity before the declaration of results
- Address and decide student's complaints/appeals regarding sessional / grade awards.
- The decision of the Committee shall be final.

AI. University Semester Committee

a) Constitution of the Committee

There shall be a semester implementation committee to be constituted by the Vice-Chancellor. The Committee shall consist of the following:

i) The Deans of all Faculties.
ii) The Director Quality Enhancement.
iii) The Director Undergraduate Studies.
iv) The Controller of Examinations.

b) Functions of the Committee

I) Provide consultation to the Academic Departments converting to the semester system from the term system.
ii) Provide support in the implementation of semester system by arranging short courses for the faculty on its various aspects.
iii) Monitor the implementation of semester system.
iv) Address various issues arising with relation to the implementation of the semester system.
(v) Recommend necessary amendments in the semester regulations, if needed

20. MIGRATION

20.1. Subject to the provisions of Regulations, the Vice-Chancellor may admit a student to the University by migration from other universities or institutions accredited by the Pakistan Engineering Council.

20.2. No student shall be admitted to first year and final year classes by migration.

20.3. No student other than regular student shall be allowed admission by migration.

20.4. Admission by migration shall not be allowed ordinarily after the expiry of three weeks from the commencement of the session.

20.5. No student shall be admitted by migration unless he produces a "No Objection Certificate" and good moral character certificate to the effect that:

a) He has obtained not less than 2.8 GPA or equivalent in the examination on the basis of which migration is requested.
b) He has neither been debarred from taking University examinations nor suspended nor expelled nor rusticated, for whatsoever reason, from the University or institution from which he intends to migrate.
c) No disciplinary action is pending against him.

20.6. a) The application shall be accompanied by a detailed marks certificate showing the examination passed by the student including Intermediate (Pre-Engg)/BSc Examination on the basis of which he secured admission in the parent university or institution.
b) No student admitted to any university or institution against seats reserved for special categories shall be eligible for admission by migration.
c) Only those students, who have academic merit at par with the students admitted in this University on open merit in the respective classes, shall be considered for admission by migration.
d) No student shall be migrated to the University who carries any of his papers of previous years.
e) No migration shall be allowed to and from the constituent/affiliated institutions.
f) Subject to eligibility under the regulations, the grounds for migration shall constitute changes in circumstances, which render it practically impossible for the student to continue his studies in his parent university or institution.
g) Migration application will be entertained only on the prescribed application form, obtainable from the Admission Office, at the cost of Rs.500/-.
h) A migration fee Rs 25,000/- (Twenty five thousand only) per year to be studied will be charged at this university.

20.7. A student desiring to leave this University in order to join another university or institution shall apply to the Dean of the Faculty concerned on the prescribed form.

20.8. The student will be required to clear all the university dues before he applies for migration.

20.9. In case of a student who has been debarred from taking University examination or has been expelled or rusticated, for whatsoever reason, No Objection Certificate shall not be issued so far as the punishment is in force.

20.10. The Registrar shall issue No Objection Certificate, which shall be valid **only for sixty days**.

20.11. A student who has obtained No Objection Certificate from this University, but has not secured admission in another institution, may be re-admitted to the University in the class to which he can be admitted under the regulations provided that:

a) His absence from the current teaching session of that class does not exceed four weeks, and that

b) He surrenders the No Objection Certificate.

20.12. Any changes/ additions/ modifications, if made in the above regulations, will also be applicable.

21. STUDENTS DISCIPLINE RULES

I. These rules shall be called the "University of Engineering and Technology, Taxila (Students General Discipline) Rules, 1998".

II. These Rules are in effect from 1998.

III. Unless otherwise explained in the context or explicitly expressed, the following terms shall mean as defined in each case:

a) "Academic Department" means an academic department of the University

b) "Committee" means the Students Discipline Committee of the University constituted by these rules.

c) "Country" means Pakistan in case of native students and in case of foreign students this term refers to the native country of such foreign students.

d) "Examination Hall" means a place declared as examination hall or as such

e) "Hall of residence" means the hostel of the University or such place as may be declared as residence hall for students.

f) "Student" means a bonafide student of the University, both native and foreign, in accordance with the respective rules.

g) "University" means the University of Engineering and Technology, Taxila

h) "Vice-Chancellor" and other officers/authorities mean the Vice-Chancellor and other officers/authorities of the University.

Note: *The general pronoun "he" and its derivatives shall mean either of the sex, unless otherwise explicitly expressed.*

IV. Every student must observe the following code of honour:

a) He must be faithful in his religious duties and respect the conviction of others in matters of religion and custom.

b) He must be loyal to his country and refrain from doing things, which might lower its honour and prestige.

c) He must be truthful and honest in his dealings with all people.

d) He must respect the elders and be polite to all especially to women, children, old people, the weak and the helpless.

e) He must respect his teachers and others in authority in the University.

f) He must keep clean in body and mind, standing for clean speech, clean sport and clean habits.

g) He must help his fellow beings especially those in distress.

h) He must devote himself faithfully to his studies.

i) He must observe thrift and protect property.

V. No student shall
   a) smoke in his classroom, laboratory, workshop, library, examination hall or convocation hall and during studio work or academic functions;
   b) consume alcoholic liquor or other intoxicating drugs within the University campus or hall of residence or examination hall or during the instructional, sports or cultural tours or survey-camp; or enter any such place or attend any such tour or camp, while under the influence of such intoxication;
   c) organize or take part in any function within the University campus or a hall of residence or organize any club or society of students except in accordance with the prescribed rules and regulations;
   d) collect any 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 Vice-Chancellor or any officer authorized by the Vice-Chancellor;
   e) stage, incite, participate in or indulge in any walkout, strike or other form of agitation against the University or its teachers or officers;
   f) interfere in the official proceedings of the examination or other University business;
   g) threat or misbehave with the officers or other employees of the University or try to influence such officers or employees in any way in connection with their official assignments;
   h) Instigate or take part in any boycott of examination or create disturbance in or, around the examination hall.

VI. Every member of the teaching staff shall have the powers (and it shall be his duty) to check disorderly or improper conduct or any breach of the rules by students occurring in any part of the precincts of the University. Should such misconduct occur in room when the student is under the charge of an instructor/supervisor, the latter shall report the matter, without delay, to the Chairman of the Department.

VII. The Librarian shall be responsible for maintenance of order of the library. In case of disorderly conduct or any breach of rule he may require the student so offending to withdraw from the library for the remainder of the day and shall immediately report the offense to the Chairman, Library Committee.

VIII. The Senior Warden/Warden and the Resident Tutor shall be responsible for the maintenance of order among the students in hall of residence or hostels. The Director, Physical Education shall be responsible for the maintenance of order among the students on or near the playground or while otherwise under his charge.

IX. (A) There shall be a Students Discipline Committee, to deal with the serious cases of in-discipline, consisting of the following
   a. Chairman, to be nominated by the Vice-Chancellor
   b. One member to be nominated by the Syndicate
   c. One Member to be nominated by the Academic Council,
   d. Two members not below the rank of Associate Professor, to be nominated by the Academic Council
   e. The Senior Warden, (Ex-Officio Member)
   f. The Director Students Affairs, (Ex-Officio Member/Secretary)
   (B) The term of office of the members other than ex-officio members shall be two years.
   (C) The quorum for a meeting of the Committee shall be **four.**

X. The functions of the Committee shall be
   a. to propose regulations to the Academic Council, and other authorities, for the conduct of the University students,
   b. to maintain discipline and to guard against the breach of discipline,
   c. to perform such other functions as may be prescribed.

XI. A student shall be guilty of an act of in-discipline and shall be liable for each act to one or more of the penalties mentioned in Rule 12(2), if he
   a) commits a breach of any of the rules of conduct specified in Rule 5; or
   b) disobeys the lawful order of a teacher or other persons in authority in the University; or
   c) habitually neglects his work or habitually absents himself from his class without

reasonable cause; or

d) willfully damages University property or the property of a fellow student or any teacher or any employee of the University; or

e) does not pay the fees, fines or other dues leviable under the University Act, Statutes, Rules, Regulations or Instructions; or

f) does not comply with the rules relating to residences in the hostels or hall of residence or the Rules relating to the University Dress Code; or

g) uses indecent language, wears immoderate dress, makes indecent remarks or gestures or behaves in a disorderly manner; or

h) commits any criminal, immoral or dishonorable act (whether committed within the University campus or otherwise) which is prejudicial to the interests of the University; or

i) humiliates, or causes to humiliate, his fellow student or a teacher or officer or other employees of the University; or

j) possesses, carries or uses any type of weapons/fire arms or explosive material within the University premises; or

k) spreads by word, mouth or written material, religious, sectarian, ethnic, regional or linguistic conflicts/hatred; or

l) uses or takes possession of the University transport unauthorisedly; or

m) shows immodest/indecent or contra-Islamic behavior with fellow boy/girl student; or

XII. (A) The penalty or penalties imposed shall be appropriate and proportioned to the nature and gravity of the act.

(B) The penalties which may be imposed and the authority or authorities competent to impose each kind of penalty are specified in the table given below:

Sr. No.	***Penalty***	***Authority Competent to impose the penalty***
a)	Exclusion from classroom Laboratory, Workshop or field work for the periods concerned, for not more than four such consecutive periods.	Teacher Incharge
b)	Exclusion from the game or the field for not more than one week.	In charge of the game
c)	Exclusion from instructional or sports tour or survey camp.	Teacher In charge or Tour In charge/ Chairman
d)	Exclusion from the Department for a period not more than one year.	Heads of Department/ Chairman
e)	Exclusion from the Library for not more than two weeks.	The Chairman Library Committee
f)	Exclusion from all classes or any class in any Faculty for a period not exceeding one year.	Dean of the Faculty
g)	Exclusion from the Hall of residence for a period not exceeding six months.	Resident Tutor, Warden Senior Warden
h)	Exclusion from the Hall of residence for a period not exceeding one year.	Senior Warden, Warden, Director Students Affairs
i)	Suspension or removal from a position of authority in a hall of residence	Resident Tutor, Warden, Senior Warden
j)	Suspension or removal from a position of authority in the Students Union, if any	Director, Students Affairs
k)	Suspension or removal from a position of authority in the University Sports	The Chairman, Sports Committee

l)	Cancellation or removal from a position of authority in the University Sports	The Chairman, Sports Committee
m)	Fine up to Rs. 2000/-	Teaching/ Research Associate, Resident Tutor
n)	Fine up to Rs. 5000/-	Assistant Professor, Warden
o)	Fine up to Rs. 10000/-	Associate Professor
p)	Fine up to Rs. 20000/-	Chairman of a teaching department, Professor, Senior Warden, Director Students Affairs, Chairman Transport Committee
q)	Fine without any limit	Dean of the Faculty
r)	Rustication from the University: i) for a period not exceeding one year	Chairman of the Deptt.
	ii) for any period	Discipline Committee, Dean of the Faculty
s)	Expulsion from the University	Discipline Committee
t)	Withholding of result/s, certificate of good moral character etc.	Dean of Faculty Chairman of Deptt. Discipline Committee
Note:	*The terms "Teaching/Research Associate", "Assistant Professor", "Associate Professor" and "Professor" include non-teaching officers, in relation to these rules, holding the posts of corresponding pay scales.*	

XIII (A) When a case against a student is referred to the Committee, the Committee may, if it deems fit, suspend the student from University Rolls and/or direct him to vacate the hall of residence till it has taken a decision in the case.

(B) Notwithstanding any thing contained in sub rule 13(1), the Vice-Chancellor shall have the powers to impose any of the penalties mentioned in sub rule 12(2) or to refer the case to the Committee.

(C) A teacher or officer mentioned in these rules in whose presence or in relation to whom an act of in-discipline is committed or who obtains knowledge of such act on a report or otherwise, may deal with the case himself or if in his view

(a) the case is one which can be more appropriately dealt with by another authority; or

(b) a penalty severer than that which he is competent to impose is called for in the case; shall follow the procedure specified below:

(i) If he is not the Dean of the Faculty he shall refer the case to the Dean who may deal with it himself or refer to the appropriate authority.

(ii) If he is the Dean of the Faculty, he shall refer the case to the Vice-Chancellor or the Committee.

(D) No student shall be rusticated or expelled from the University, unless he has been allowed reasonable chance of replying to the accusation against him.

(E) When in the opinion of the Committee the penalty of rustication or expulsion is not called for in a case referred to it, it may impose any other penalty or penalties mentioned in the Rule 12(2).

XIV. When a teacher or officer has imposed penalty/penalties on a student under sub rule (2) of rule 12, the latter shall not be liable to a higher or an additional penalty unless the he has been given a reasonable opportunity of showing cause against the proposed action.

XV. (A) A review petition against the imposition of penalty may be made within a week's time to the teacher/officer who imposed the penalty. In case the student is not satisfied with his decision/revision he may appeal to the Chairman, Discipline Committee who shall place it before the Committee for its consideration and decision within a maximum of six weeks to dispose of the case. A final appeal against the imposition of penalty may then be made to the

Committee as provided in Rule 15(2) of these Rules.

(B) An appeal against a decision on imposing a penalty mentioned in Sr. No.(r) and (s) of the table under rule 12(2) shall lie with a committee comprising as mentioned below:

i) The Vice-Chancellor
ii) All Deans of Faculties
iii) One member to be nominated by the Syndicate
iv) The Registrar shall be the Secretary of the Committee.

(C) No appeal shall lie against a decision of an authority imposing a penalty other than that mentioned in Rule 15(1) of these rules except on the ground that such authority has imposed a penalty which it was not competent to impose.

(D) An appeal on the ground that an authority has imposed a penalty, which it was not competent to impose, shall lie to the Vice-Chancellor.

(E) No appeal by a student under sub rule (1) or sub rule (4) of this rule shall be entertained, unless it is presented within fifteen days from the date on which the decision is communicated to him, provided that the Vice-Chancellor may, for valid reasons, extend this period up to thirty days.

XVI. The Vice-Chancellor or any teacher or officer to whom the Vice-Chancellor may delegate his powers, may direct a student to pay compensation for any loss, or damage to property belonging to the University or to a fellow student or to an employee of the University caused by a willful act or gross negligence of the student and if the student does not pay such compensation within a time to be specified, the Vice-Chancellor may expel him from the University and loss/damage/compensation be recovered from his parents/guardians through legal proceedings.

XVII <u>Code of hounour for Bus Routes:</u>

i. An individual traveling in the bus must respect the elders and be polite to all especially female students, women, children, old people, the weak and the helpless.
ii. All the students must respect the teachers and others in authority in the university.
iii. Cassette Player, singing songs, use of vulgar language, card playing, fooling, passing remarks using nick names and smoking, playing music on the mobiles, are prohibited.
iv. Hanging with door of buses is prohibited.
v. Forcing driver/cleaner for undue delay, stoppage, changing routes is prohibited.
vi. All individuals traveling in the bus must cooperate with the driver/cleaner.
vii. For complaints/suggestions contact Chairman Transport/DSA.

XVIII. <u>Policy to deal discipline cases in the bus routes.</u>

A. Any eventuality occurring in the bus routes will be immediately reported by the concerned driver/cleaner to the chairman transport through transport officer/office in writing. Failing to do so action will be taken against them as per E&D rules of the university.

B. Keeping in view the gravity of the problem the Chairman Transport will serve first and second notice to deal the indiscipline during the but routes. In acute circumstances the discipline committee empowers the following committee to deal the indiscipline problems in bus routes:

i. Chairman Discipline Committee
ii. Director Student Affairs
Iii. Chairman Transport Committee

22. UNIVERSITY HOSTELS

22.1. The rooms in the hostels are allotted on the basis of academic merit. However, a casual student or a student involved in any act of misconduct, indiscipline, violation of rules or involvement in any political and objectionable activities, shall be ineligible for hostel accommodation. If the attendance of a student is short, his hostel allotment shall be cancelled. He may apply for fresh allotment after the next semester if his attendance is up to the mark at that time.

22.2. A student shall not occupy a room without due allotment. He shall not transfer it to any other person, nor exchange it with another student without permission of the Senior Warden.

22.3 The furniture assigned to a room shall not be shifted from it. A resident shall be responsible for the articles issued to him and shall return them to the hostel authorities when leaving the room or hostel. He shall be responsible for making good, any loss or damage to these articles.

22.4. A resident who breaks or damages any University property shall have to pay the cost of the articles, in addition to any disciplinary action that may be taken against him.

22.5. The residents shall not tamper with the room fittings, nor shall they get the doors fitted with internal locks.

22.6. A room or any part of the hostel premises shall not be used as an office, reading room, library or for any other similar purpose by a political, religious, regional or sectarian body of the students.

22.7. The residents shall not leave lights, heaters or fans ON when the rooms are not in use.

22.8 The residents shall not use heaters and air coolers without payment of approved charges and prior permission of the Senior Warden. The use of room heater is restricted to 1000 W.

22.9 The residents are not allowed to use air-conditioners, refrigerators, ovens or similar electrical appliances. A student who violates this restriction will be liable to punishment under rules of discipline, and shall also pay the cost of any damages to the wiring or other fittings, which will be determined by the Senior Warden.

22.10 The residents are advised in their own interest, not to keep in their rooms cash or valuable articles like radios, transistors, tape-recorders, TV sets, mobile phones etc.

22.11 The residents shall be responsible for keeping their rooms tidy and clean. They shall not dispose off litter in the verandahs or other parts of the hostel premises. Smoking is strictly prohibited in the hostel premises.

22.12 Every part of the hostel shall be opened to the hostel authorities for inspection at any time during day or night.

22.13 The residents are not allowed to wear immodest dress in the hostel.

22.14 The residents shall not keep in the hostel any fire arms or other weapons, even if licensed. Violation of this rule shall render a resident liable to expulsion from the University.

22.15 A resident shall not indulge in any amusement, which is likely to cause nuisance to others.

22.16 Any religious ceremony likely to injure the sentiments of other residents shall not be performed in the hostel.

22.17 The residents are not allowed to gamble or to use any intoxicants and narcotics. Violation of this restriction shall rende.r a resident liable to expulsion from the University hostel, in addition to any criminal proceedings that may be instituted against him under the Penal Law of Pakistan.

22.18 Guests may visit the male residents in the hostel between 9.00 a.m. to 7.00 p.m. The male residents shall not receive female guests in their rooms, but may see them in the place reserved for the purpose. The guests approved by the Senior Warden may visit the female residents in Girls Hostel between 4.00 p.m. to 7.00 p.m. only. The female residents can receive the guests in Guest Room only.

22.19 Guests are not allowed to stay overnight unless it is permitted by the hostel 3authorities and accommodation is available in the guest rooms.

22.20 The gates of the female hostel shall remain locked for the following hours:
Summer: 22.00 hours to 05.00 hours (April to September)
Winter: 21.00 hours to 06.00 hours (October to March)

22.21 The female residents shall not meet their male guests in or around the hostel premises. A female resident shall not leave the Campus without the written permission of the Hostel Authorities.

22.22 Students will have to vacate the hostel accommodation within a week of the expiry of the final semester regular examination.

22.23 The Senior Warden may cancel the allotment of a student who violates the Students Discipline Rules of the University.

23. ALLOTMENT OF ROOMS IN HOSTEL:

23.1 A student seeking accommodation in a University Hostel shall submit an application to the Senior Warden on the prescribed form. Allotment will be made by the Resident Tutors under the supervision of the Senior Warden. As far as possible international students shall be provided hostel accommodation.

23.2 Students residing within the limits of Taxila, Wah Cantt., Rawalpindi and Islamabad shall not be provided hostel accommodation, unless vacancies are available after accommodating students from outside the above limits.

23.3 The types of accommodation presently available in the hostels are;
(a) Cubicle (b) Dormitory

23.4. The order of preference for allotment of the accommodation shall be as follows:
(a) Final year students
(b) Third year students
(c) Second year students.
(d) First year students

23.5. Within each of the categories mentioned in sub-rule 23.4 except categories (d), the order of preference shall be as follows:-
i) Students who have passed the next below regular semester examination, taken as a whole
Ii) Students who have failed in not more than three of the papers of the next below regular semester examination
iii) Others

23.6 **Confinements:**
a) Hostel accommodation is not a right but facility provided by the University. It is solely the prerogative of the University to offer a place in the hostel.
b) A student, who fails to fulfill the degree requirements within the minimum prescribed time duration, shall not be allowed to reside in the university hostels.

24. UNIVERSITY DRESS CODE

The students shall wear dress that insures modesty, sobriety and dignity. The dress must neither be offensive to social norms and ethical values of the society nor injurious to feminine grace and gentleness. Female students shall, preferably, wear a scarf and an overall sufficient to conceal their posture.

25. MISCELLANEOUS

25.1. Liability for Injury Damage and Loss:

The University teaching programs include training in its workshops and laboratories, places of engineering interest, industrial concern, and construction jobs. The University or other concerns shall not be responsible in the event of an injury, damage or loss to a student resulting from any cause whatsoever during the course of such training.

25.2. Modification of Rules and Regulations:

The rules and regulations governing various aspects of students' life at the University (such as discipline, admissions, examination, migrations, fees and charges etc.) are given in this prospectus or elsewhere as they stood at the time of its publication. There is no guarantee that these rules and regulations will remain unchanged throughout a student's stay at the University; nor does it, in any way restrict or curtail the inherent powers for the University authorities to modify them whenever in their judgment any modifications are called for, and to implement the modified rules and regulations from a date which they deem appropriate.

26. GENERAL INSTRUCTIONS

26.1. The application along with the required documents should be submitted as early as possible. Please do not wait for the last date.

26.2. As soon as the process of selection is complete, the merit list will be notified showing the percentage of the applicants admitted in different disciplines against different categories.

26.3. All documents to be attached with the Application Form (F-I) should be attested by a class-I gazetted officer of the government or a class-A officer of this University.

26.4. Any information regarding admissions can be obtained during working hours by calling Phone Nos: (051)9047412, (051)9047660, (051)9047491, (051)9047692 and (051)9047554. Members of the Admission Committee will also be available for consultation, in person, during admission period.

27. ELIGIBILITY FOR ADMISSION

27.1. Eligibility Requirements

(A) An applicant for admission to BSc Degree Course in Civil, Electrical, Mechanical, Computer and Software Engineering (under any category) must fulfill the following eligibility requirements:

i. He should have passed the Intermediate (Pre-Engg) Examination with Mathematics, Physics and Chemistry from a Board of Intermediate and Secondary Education of Pakistan or an equivalent examination so recognized by the university.

Note: For admission to Computer & Software Engineering the candidate having passed F.Sc. with Physics, Mathematics and Computer Science as major subjects will also be eligible.

ii. He should have passed the examination (up to the latest annual examination) on the basis of which he seeks admission.

iii. He should have obtained at least 60% marks in examination on the basis of which he seeks admission. Marks for NCC and Hifz-e-Quran, where applicable, shall be added only for determination of merit and not towards eligibility.

iv. He should be bonafide resident of the area from where he seeks admission.

v. He should meet standards of physique and eyesight laid down in the medical certificate F-III.

vi. He should have appeared in the Entry Test for the respective Session arranged by the University with the following combination
(English, Mathematics, Physics, Chemistry/Computer Science)

NB: *A person, whose name has once been removed from the rolls of this University (for whatsoever reason), will not be eligible to seek admission again in this University.*

(B) **Equivalent Examination:** The university recognizes the following examinations as equivalent to the Intermediate (Pre-Engg) Examination with Chemistry, Mathematics and Physics of the Pakistani Boards of Intermediate and Secondary Education:-

i. Intermediate (Pre-engineering) Examination of the Board of Intermediate & Secondary Education, Azad Kashmir;

Ii. Cambridge Overseas Higher School Certificate with Physics, Chemistry and Mathematics;

Iii. British General Certificate of Education (Advanced Level) with Physics, Chemistry and Mathematics;
Iv. FSc. (Pre-medical) with Mathematics as an additional subject.
V. American High School Graduation Diploma (HSG Diploma)
Vi. An equivalent certificate or diploma accepted by IBCC (Inter Board Chairmen Committee).

Note: Such applicants are required to attach an equivalence certificate issued by the IBCC, with the application for admission. The following is the address of the IBCC:

Inter Board Committee of Chairmen,
Federal Board of Intermediate and
Secondary Education Building
H-8/4, Islamabad-PAKISTAN

27.2. Eligibility for Diploma Holders

a) For admission against seats reserved for holders of the Diploma of Associate Engineer, he should have passed the diploma examination from the Punjab Board of Technical Education, Lahore in the relevant technology, obtaining not less than 60% marks.

b) Applicants seeking admission against seats reserved for the holders of diploma of Associate Engineer shall not be eligible unless their diplomas are in the relevant technology as specified against each degree course given below:]

Electrical Engineering

- Diploma in Electrical Technology
- Diploma in Electronics Technology
- Diploma in Instrument Technology

Mechanical Engineering

- Diploma in Mechanical Technology
- Diploma in Refrigeration and Air-conditioning Technology

Civil Engineering

- Diploma in Civil Technology

c) Diploma holders are eligible to apply in Category-I in their specific field only. They are not eligible to apply in any other category.

27.3. Provisions about admission on the basis of a BSc Degree

a) Given the qualifications and restrictions stated below, a person is eligible for admission to the Bachelor's Degree courses at the University on the basis of a degree of Bachelor of Science.

b) A person possessing a BSc degree is NOT eligible for admission to any Bachelors Degree course at the university unless he has also passed FSc. Pre-engineering Examination or Pre-Medical Examination.

27.4. Scope of Eligibility for BSc with FSc (Pre-Engineering)

For admission to the BSc courses in Civil, Electrical, Mechanical Computer and Software Engineering, an applicant must have passed the BSc Examination with Physics and Mathematics.

27.5. Sex

Both male and female persons are eligible to apply for seats shown in the Seats Allocation Chart in section 28. The general pronoun “he” and its derivatives imply either of the sex.

28. SEATS ALLOCATION CHART 2008 ENTRY

Number of seats allocated for various categories are tabulated below. Admission is granted in each category on merit, subject to eligibility under relevant Sections.

CATEGORIES		Civil	Elect	Mech	Comp	Soft	Telecom	Total
A.1	Punjab (Subsidized)	85	85	85	30	30	30	**345**
A.2	Punjab (Regular)	37	37	37	22	22	22	**177**
B.	Sind	1	1	1	--	--		**3**
C.	Baluchistan	2	2	2	--	--		**6**
D.	N.W.F.P.	1	1	1	--	--		**3**
E.	A.J.K. and Northern Areas							
	(i) Azad Kashmir	2	1	2	--	--		**5**
	(ii) Kel Area		(OPEN)		--	--		**1**
	(iii) Northern Area	1	1	1	1			**4**
F	HEC Nominees from Baluchistan and FATA	4	4	4	2	2	2	**18**
G	Disable Persons					2		2
H.	Foreign Nationals							
	(i) Foreign Countries	3	3	3	--	--		**9**
	(ii) Afghan Nominee		(OPEN)		--	--		**1**
	(iii) Bangladesh Nominee	1	1	2	--	--		**4**
	(iv) Indian held Kashmir			1	1	1		**3**
I.	Diploma of Associate Engineer	3	2	2	--	--		**7**
J.	Children of Armed Forces personnel							
	(i) Army	1	1	2	--	--		**4**
	(ii) Air Force	--	--	1	--	--		**1**
	(iii) Navy	--	1	--	--	--		**1**
K.	Federally Administered Tribal Areas		(OPEN)		--	--		**2**
L.	Backward Areas[1]		(OPEN)		--	--		**2**
M.	Children of University Employees		(Maximum five seats in a discipline)					**25**
N.	Children of Graduate Engineers/ Architects/ City & Regional Planners	1	1	1	--	--		**3**
O.	Children of University Alumni		(OPEN)		--	--		**1**
Q.	Tribal Areas of DG Khan and Rajanpur Districts							
	Q1: Tribal Areas of DG Khan District		(OPEN)		--	--		**1**
	Q2: Tribal Areas of Rajanpur District		(OPEN)		--	--		**1**
T	Tehsil Taxila		2 seats with a maximum of 1 seat in a discipline					**2**
TOTAL								**631**

1: Attock, Bahawalnagar, Bahawalpur, Bhakkar, Chakwal, D.G. Khan, Jhang, Jhelum, Leiah, Muzaffargarh, Mianwali, Rahim Yar Khan and Rajanpur Districts.

Seats Allocation Chart, 2008-ENTRY (Chakwal Sub-Campus)

CATEGORIES		Electronics	Mechatronics	Total
W1	Punjab (Subsidized)	30	30	60
W2	Punjab (Regular)	20	20	40
S1	Chakwal Domicile (Subsidized)	01	01	02
S2	Chakwal Domicile (Regular)	01	01	02
Total		**52**	**52**	**104**

29. CATEGORIES AND SYMBOLS

29.1. Category A1 (Punjab Province-Subsidized) :

The applicant should be a bonafide resident of the Punjab province. The selection and allocation of disciplines are made by the university according to merit.

29.2. Category A2 (Punjab Province Regular)

The applicant should be a bonafide resident of the Punjab province. The eligibility conditions are same as laid down in clause 27.1. Diploma holders are not eligible.

The selected candidates have to pay the dues for Non-subsidized category (A2) as per schedule given in clause 37.1. The selection and allocation of disciplines are made according to merit. The candidate who fails to deposit the said amount his right of admission will be forfeited.

29.3. Category B (Sind Province)

The applicant should be a bonafide resident of the Sind province. Applications are to be submitted to the Registrar of the Mehran University of Engineering and Technology or the Registrar of the N.E.D University of Engineering and Technology, Karachi. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations. Nominations and allocation of disciplines are made by the Department of Education, Government of Sind, Karachi.

29.4. Category C (Baluchistan Province)

The applicant should be a bonafide resident of the Baluchistan province. Applications are to be submitted to the Secretary, Department of Education, Government of Baluchistan, Quetta. Nominations and allocation of disciplines are made by this Department. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations.

29.5. Category D (N.W.F.P. Province)

The applicant should be a bonafide resident of the North-Western Frontier Province. Applications are to be submitted to Registrar, NWFP University of Engineering and Technology, Peshawar. Nominations and allocation of disciplines are made by the Department of Education, Government of NWFP, Peshawar. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations..

29.6. Category E (AK including KEL Area & Northern Areas)

The applicant for the Azad Kashmir & Kel Area seats should be a national of Azad Kashmir, and the applicant for the Northern area seat should be bonafide resident of these Areas.

For the seats reserved for Azad Kashmir and Kel Area, applications are to be submitted to the Secretary Education, Azad Jammu & Kashmir Government of Muzaffarabad.

For the seats reserved for the Northern Areas applications are to be submitted to the Director of Education, Northern Areas, and Gilgit.

Nominations and allocation of disciplines are made by the Nomination Board for the Azad Kashmir and Northern Areas. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations.

29.7 Category F (HEC Nominees from Baluchistan and FATA)

The applicant should be a bonafide resident of the Baluchistan province or FATA. Applications are to be submitted to the Higher Education Commission (HEC), Islamabad. Nominations and allocation of disciplines are made by HEC. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations at UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations.

29.8 Category G (Disable Persons)

The applicant should be bonafide resident of Punjab Province. The application should have to furnish a certificate from concerned DHQ Hospital. Verification of his disability in view of provided certificate in relation to engineering education will be done by the Chief Medical Officer, UET, Taxila. The selections are made by the University according to merit. Diploma holders are not eligible to apply. The blind, deaf & dumb persons are not eligible to apply in this category."

29.9. Category H (Foreign Countries)

The applicant is required to get his application sponsored by his government, and sent in triplicate to the Ministry of Finance and Economic Affairs (Economic Affairs Division) Government of Pakistan, Islamabad, through Pakistan's representative accredited to his country. The applications should be accompanied by the following documents:

a) *Educational Certificates (attested photocopies) and details of syllabi and courses of study of the examinations passed with English translation if these are in a different language*
b) *Domicile/Nationality Certificate*
c) *Passport*
d) *Character Certificate*
e) *Health/Fitness Certificate*
f) *Information regarding the class and discipline in which admission is required Nominations. Allocation of disciplines is made by the Ministry of Finance and Economics Affairs (Economic Affairs Division) Islamabad. The prescribed application forms may be obtained from the ministry. Diploma holders are not eligible to apply in this category.*

29.10. Category I (Diploma Holders)

The applicant should be a bonafide resident of the Punjab province and should have passed the relevant diploma examination from the Punjab Board of Technical Education, Lahore. Selection and allotment of disciplines are made according to merit.

29.11. Category J (Children of Armed Forces Personnel)

Applications are to be submitted to the Headquarters of the Army, Air Force or the Navy (depending upon the service to which the parent belongs) in accordance with the procedure notified by them. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations. Nominations and allocation of disciplines are made by the respective Headquarters.

29.12. Category K (FATA)

The applicant should be a bonafide resident of the Federally Administered Tribal Areas. The applications are to be submitted to the Secretary, State and Frontier Regions Division, Government of Pakistan, Islamabad. Nominations and allocation of disciplines are also made by this Division. Diploma holders are not eligible to apply in this category. The last date for receipt of nominations ate UET Taxila (irrespective of mode of communication or the date of postage) is 7 days before date of closing of admission. Unfilled seats (if any) will be cancelled after the prescribed date for receipt of nominations.

29.13. Category L (Backward Areas of Punjab)

The backward areas of Punjab include districts of Bahawalnagar, Bahawalpur, Attock, Rahim Yar Khan, Muzaffargarh, Leiah, Rajanpur, Bhakkar, Jhang, D.G. Khan, Chakwal, Mianwali and Jhelum. The applicant should be a bonafide resident of any of these districts. The selection and allocation of disciplines are made by the university according to merit.

29.14. Category M (Children of University Employees)

Real children of those university employees who have completed five years of service being physically present are eligible to apply in the following order of preference. The selection is made by the university according to merit.

1. Real children of those university employees whose services have been transferred to University of Engineering and Technology, Taxila ordinance 1993.
2. Real children of those university employees who have joined UET Taxila after 1993.
3. Diploma holders are not eligible to apply in this category. Unfilled seats (if any) will be cancelled.

The applicants have to furnish with their applications, a certificate from the Registrar of the University

on Form F-IX (available in Registrar's Office).

29.15. Category N (Children of Graduate Engineers)

The applicant should be a bonafide resident of the Punjab province. The selection and allocation of disciplines are made by the university according to merit.

Applicants should furnish with their applications attested photocopies of their parent's Bachelors Degree in Engineering and renewed PEC Registration card. Other qualifications such as AMIE (Pak) are not recognized for inclusion in this category.

29.16. Category O (Children of University Alumni)

The selection and allocation of disciplines are made by the University according to merit. The applicant should furnish with his application an attested photocopy of the Provisional Certificate of his parent as an evidence of the fact that he (the parent) is a graduate of this University or its parent institution, that is, the former University College of Engineering.

29.17. Category Q (Tribal Areas of DG Khan and Rajanpur)

Q1. The applicant should be bonafide resident of the area of D.G. Khan Tribal Area.

Q2. The applicant should be bonafide resident of the area of Rajanpur Tribal Area.

The applicant should be a bonafide resident of the area concerned. The selection and allocation of disciplines are made by the University according to merit. Diploma holders are not eligible to apply.

Applicant must furnish a certificate from the District Coordination Officer Dera Ghazi Khan or Rajanpur verifying that he/she is a bonafide resident of the Tribal Areas of D.G. Khan or Rajanpur Districts.

29.18. Category T (Tehsil Taxila Domicile)

The applicant should be a bonafide resident of Tehsil Taxila. The selection and allocation of disciplines are made by the university according to merit. The selected candidates will have to pay the dues for subsidized category as per schedule given in clause 37.1. Diploma holders are not eligible to apply in this category.

30. DETERMINATION OF MERIT

30.1 Examinations Considered for Merit

For admission to all the Bachelors Degree Courses and determination of merit the following examinations are considered:

a) Higher Secondary School Certificate Examination (HSSC) Pre-Engg or equivalent.
b) Bachelor of Science (BSc) or BASc.
c) Diploma of Associate Engineer.
d) Entry Test.

30.2. Weighted Percentage

The comparative merit of applicants will be determined on the basis of weighted percentage marks obtained by them in these examinations.

A) For Applicants with HSSC (Pre-engineering) as the Highest Qualification

I)	*HSSC (Pre-engineering) or Equivalent*	*70%*
Ii)	*Entry Test*	*30%*

B) For Application with BSc OR BASc as the Highest Qualification

I)	*BSc or equivalent*	*35%*
ii)	*HSSC or equivalent examination*	*35%*
iii)	*Entry Test*	*30%*

C) For Applicants Having Diploma of Associate Engineer as the Highest Qualification

i)	*Diploma of Associate Engineer*	*70%*
ii)	*Entry Test*	*30%*

30.3. Deduction of Marks for Examinations Passed by Parts

If an applicant has passed an examination by parts, ten (10) marks are deducted for that examination while determining the weighted percentage marks. If the certificate of an applicant does not state whether he has passed the examination as a whole or by parts, he should submit with his application Form F-II duly filled in and signed by the controller of examinations concerned. If these forms are required but not submitted, ten marks will be deducted from the relevant examination marks obtained.

30.4. Merit of FSc (Pre-medical) with Mathematics

In determining the merit of an applicant having FSc (Pre-medical) with Mathematics as an additional subject:

a) it is deemed that he has passed the examination by parts; and

b) the marks obtained in the subject of Biology are replaced by those obtained in Mathematics.

30.5. Credit for NCC

Twenty marks are added to the marks obtained in the highest examination of an applicant who has successfully completed the NCC training. An applicant gets the benefit only if he submits with his application an attested photocopy of the original certificate issued by the Director General National Cadet Corps & Women Guard. No substitute for the original certificate is recognized.

30.6. Credit for Hifz-e-Quran

Twenty marks are added to the marks obtained in the highest examination of an applicant who is Hafiz-e-Quran. He gets the benefit only if he:

i) fills in the necessary column provided in the application Form (F-I), and

ii) appears before the 'Verification Committee' appointed by the Vice-Chancellor and the Committee accepts his claim of being a Hafiz-e-Quran.

The ***Verification Committee*** will meet for this purpose in the office of the Convener, Admission Committee, at 9:00 a.m. on 8th September 2008. No separate call letters will be issued in this connection.

30.7. Determination of Merit in case of Equal Percentage of Admission Marks

If two or more applicants have equal percentage of admission marks (up to three places of decimal), they shall be treated at par for the purpose of admission.

Explanation: *In case there is a tie for the last seat in a particular Discipline/Category, then all the candidates who have secured equal percentage of Admission Marks (up to three places of decimal) shall be admitted. No transfer or new entry into that Discipline/Category shall, however, be considered unless the actual number of candidates already admitted falls below the number of allocated seats for the Discipline/Category.*

30.8. Merit Determined Category Wise

The seats for admission to the Bachelor's degree courses at the university are distributed over various categories. These categories are discussed in Section 29. The details of the distribution of seats are available in the Seats Allocation Chart in Section 28.

The eligible applicants for each category are grouped separately. Then on the basis of the weighted percentage of marks obtained in the relevant examinations, comparative merit of the applicants

comprising the group is prepared. The applicants belonging to a category thus compete for admission amongst themselves for the seats allocated to it.

30.9. Transfer on the Basis of Given Preferences and Merit

In case a seat in any Discipline/ Category of higher preference given by a candidate falls vacant and he is eligible for transfer to that Discipline/Category on the basis of his merit, he shall be automatically transferred to that Discipline/Category. He will have no right to retain his admission in the previous Discipline/Category because the seat vacated by him shall be simultaneously allotted to the next eligible candidate on merit.

30.10. Variation in Seats

The university authorities may exercise their right at any time to increase or decrease the number of seats allocated to any category and there shall be no appeal against such a decision.

30.11. TYPICAL EXAMPLES FOR THE CALCULATION OF WEIGHTED PERCENTAGE FOR ADMISSION

CASE 1:

Applicants having HSSC (FSc) or Equivalent as the highest qualificationFormula

(70((HSSC marks obtained + NCC +HIFZ-E-QURAN)/HSSC total marks))+ (30Entry Test marks obtained/Entry Test total marks))

Example

An applicant obtained 848/1100 in HSSC (having passed the HSSC examination as a whole) and 300/400 in Entry Test. He has obtained NCC Certificate as well.

% Admission Marks

(70((848+20)/1100))+(30(300/400))

= 77.736 %

CASE 2:

Applicants having BSc or BASc as the highest qualification Formula

(35(HSSC marks obtained/HSSC total marks))+ ((35BSc marks obtained +NCC+ HIFZ-E-QURAN)/BSc total marks))+(30(Entry Test marks obtained/Entry Test total marks))

Example

An applicant obtained 820/1100 marks in HSSC, 624/800 marks BSc (Passed all of them as a whole) and 360/400 marks in Entry Test, having also NCC certificate:

% Admission Marks

0(35(820/1100))+(35((624+20)/800))+(30(360/400))

= 81.265%

CASE 3:

Applicants having Diploma of Associate Engineer as the highest qualification Formula

(70((Diploma marks obtained+NCC+HIFZ-E-QURAN)/Diploma total marks))+ (30Entry Test marks obtained/Entry Test total marks))

Example

An applicant 2570/3100 in Diploma and 240/400 in Entry Test. He has obtained NCC Certificate as well.

% Admission Marks

(70((2570+20)/3100))+ (30(240/400))

= 76.483 %

31. MERITS FOR THE SESSION 2007 (ENTRY 2007)

Category	A1 Subsidized	A2 Non Subsidized	L Backward Areas	O Alumni	I Diploma Holders	N Children of Graduate Engineers	Q DG-Khan Tribal areas	T Tehsil Taxila
Electrical	75.584	72.875	75.555	75.216	71.406	75.475	69.373	72.632
Mechanical	72.798	69.904	--	--	66.944	72.643	--	70.482
Civil	69.845	67.341	--	--	58.704	69.873	--	--
Telecom	70.08	67.461		--	--	--	--	--
Computer	69.093	66.82			--	--	--	--
Software	67.475	65.464			--	--	--	--

Note: The figures given in this table show "weighted percentage" based on all requisite components.

32. DOMICILE REQUIREMENTS

32.1. Domicile Certificates to be submitted by All Applicants

All applicants are required to submit with their applications an attested photocopy of their domicile certificate failing which their applications shall not be considered for admission.

32.2. Applicants Required to Submit Additional Documents

Applicants for categories A, I, N, L, Q and S who have passed either the Secondary School Examination or the Higher Secondary School Examination from any Board of Intermediate and Secondary Education not included in the Punjab Province or Federal Capital Area, Islamabad, will have to submit additional documents in support of their domicile.

32.3. Additional Documents Required:

The applicants who are required to submit additional documents may fall into the following three categories:

a) Children of Government Servants

If the parent of the applicant is a government servant who belongs to Punjab but is serving in any other province of Pakistan, then the parent should produce a certificate on Form F-III from the head of his department affirming that he is a permanent resident of the Punjab. It shall be necessary in such cases that the period of the applicant's study corresponds with the period of the posting of the parent in that province.

b) Others

Applicants other than those at (a) above have to submit the following additional documents in support of their domicile certificate:

i) An attested Photocopy of father's/ mother's domicile certificate of the Punjab Province or the Federal Capital Area, Islamabad.

ii) Documentary Proof in the form of a certificate on Form F-IV from the election officer of concerned area of the Punjab Province/ Federal Capital Area, Islamabad to the effect that name of the father/mother of the applicant appears in the electoral rolls.

iii) An attested Photocopy of the relevant page of the electoral rolls on which the name of the father/mother of the applicant appears.

iv) An attested Photocopy of the identity card of the applicant's father/mother.

v) An undertaking from the candidate on Form F-V.

C) Applicant Whose Father is not Alive

In case his father is not alive and the above documents cannot be produced, the applicant should submit:

i) Documentary evidence of his father's/mother's immovable property in Punjab or Federal Capital Area, Islamabad.

Ii) Documentary proof of his father's death.

32.4. Domicile Requirements for Children of the Armed Forces Personnel

In addition to the seats reserved for the category J, the children of the Armed Forces personnel can apply for admission on basis of merit against seats reserved for their province of domicile or the seats reserved for the province in which their parent (the member of the Armed Forces) is posted.

Thus an applicant who is domiciled in Sindh but his parent is posted in Punjab can apply against seats reserved for Sindh or against seats reserved for Punjab. However, if he applies under category A, he has to submit with his application a certificate from the GOC of the area regarding the place of his parent's posting.

33. DOCUMENTS TO BE ATTACHED WITH FORM F-I

An applicant must exercise great care in ensuring that his application form (F-I) is submitted accompanied by the required documents. An application shall stand rejected if any of the required documents is missing. No document shall be accepted after the last date for receipt of applications. The documents required from applicants for different categories are summarized below:

33.1. Documents to be submitted by All Applicants: (Attested Photocopies)

a) Certificate of Secondary School Examination (Detailed Marks Certificate).

b) Degree, Diploma or Certificate of the examination on the basis of which admission is sought (i.e. FSc, BSc, or Diploma of Associate Engineer etc.). Results cards issued by the board/university are acceptable. **Provisional Certificate in place of Degree/Diploma will not be accepted.**

c) Detailed Marks Certificate of the examination on the basis of which admission is sought.

d) Domicile Certificate.

33.2. Additional Documents

To whom applicable:

a) If your certificate, diploma or degree does not show that you have passed the examination by parts or as a whole, you have to submit in original the certificate on Form F-II

b) If you have passed FSc. (Pre-medical), you have to submit an attested photocopy of the certificate for Additional Mathematics.

c) If you are seeking admission on the basis of BSc Degree you have to submit an attested photocopy of the FSc Certificate as well.

d) If you are applying for the M Category seats, you have to submit in original a certificate from the Registrar of the university on prescribed Form F-IX (Available in the Registrar's office).

e) If you are applying for the N Category seats, you have to submit an attested photocopy of the relevant degree of your father or mother.

f) If you have successfully completed the NCC training and wish to claim 20 marks you have to submit an attested photocopy of the certificate issued by the Director General National Cadet Corps and Women Guards.

g) If you are claiming 20 marks for being Hifz-e-Quran, read clause 30.6 of the prospectus carefully.

h) If you are the son of Armed Forces Personnel and are seeking admission not against the seats reserved for the province of your domicile but against the seats reserved for the province where your parent is posted, you have to submit in original certificate from the GOC of the

area about the place of your parent's posting.

i) If you are applying for any category requiring the Punjab domicile and you have passed either the Secondary School Examination or the Higher Secondary Examination from a Board or Institution not included in the Punjab/Federal Capital Area, Islamabad.

You should read Section 32.3 carefully to find out the additional documents, you have to submit along with Form F-I.

Note: The Form F-VI, Form F-VII and Form F-VIII are not to be submitted along with the application. They are required at the time of admission/registration.

34. APPLICATION FEE

34.1. An application fee of Rs. 100/- is charged for each preference in terms of discipline and category.

34.2. **The Fee is to be Remitted in One of the Following Ways**:

a) Through a Bank Challan for the required amount deposited with the Habib Bank Ltd., Engineering University Branch, Taxila and attaching the bank challan with the application Form F-I

OR

b) Through a bank draft or a pay order (from any branch of Habib Bank) of the required amount and attaching it with the application Form F-I.

34.3. For depositing fee in the Habib Bank, Engineering University Branch, the challan form (available in the bank) meant for payment of the university dues should be used. The bank draft or the pay order should be obtained from any branch of Habib Bank Ltd. And made payable to the Treasurer, University of Engineering and Technology, Taxila.

34.4. The application fee shall not be accepted if remitted in any manner other than those mentioned above. For example, **money orders or postal orders will not be accepted**.

34.5. The applicants must check up carefully that they are remitting the correct amount of application fee. If the application fee received with the application falls short of the required amount, the application will be entertained to the extent of preferences covered by it. For this purpose, starting with the first preference downwards only those preferences will be accepted which are covered by the fee remitted by the applicant, and the rest will stand canceled.

35. HOW TO COMPLETE THE APPLICATION FORM

While reading the following instructions for completing application form F-I keep referring to F-I specimen. That will make it easy for you to understand the instructions and to complete the Form correctly.

35.1. Only one application form is to be submitted for any number of disciplines and categories you apply for.

35.2. All entries should be in BLOCK LETTERS.

35.3. **Fill the column for preferences very carefully. The order of preferences once given shall be final and cannot be changed subsequently.**

35.4. Under column “Discipline” use the following abbreviations (as shown in F-I specimen):

Civil Engineering	***Civil***
Computer Engineering	***Comp***
Electrical Engineering	***Elect***
Mechanical Engineering	***Mech***
Software Engineering,	***Soft***
Telecommunication Engineering	***Tel***

35.5. Under the column "Category" use only the symbols (i.e. A1 or I or N, Q etc.).

35.6. Since no erasure or overwriting is allowed in these columns, be very cautious, if you fill it once and you want to change it later, you will have to get another prospectus.

35.7. Write your mailing address on the stickers available in the enclosures and attach it with the application.

35.8. Deadline for Receipt of Applications

a) The application form complete in all respects along with the requisite documents and bank challan, bank draft or pay order should reach the **Convener, Admission Committee, University of Engineering and Technology, Taxila** on or before the last date notified for receipt of applications.

b) The application may be delivered personally or sent under registered post.

c) Application received after the closing date shall not be entertained, irrespective of the fact that it was posted before the closing date.

35.9. Incomplete Applications

Incomplete applications shall not be entertained. Application form, fee and the documents submitted with it shall not be returned on any ground.

36. PROCEDURE FOR THE SELECTED CANDIDATES

36.1. Notification of Selection

A list of selectees will be displayed on the university notice boards and on official University web site(www.uettaxila.edu.pk). The applicants can check the merit lists according to the schedule given in Section 40.

36.2. Depositing of Dues and Documents

Within specified days mentioned in the admission schedule (Section 40), a selectee is required to pay the university dues and submit the following documents to the Convener, Admission Committee.

a) Bank Challan receipt in support of the University Dues deposited in the Habib Bank Ltd., Engineering University Branch Taxila.

b) Medical Certificate (F-VII) duly signed and stamped by the District Medical Superintendent or the Medical Officer of the university or a Commissioned Medical Officer

c) Ten attested most recent photographs.

d) Attested Certificate of parent's/guardian's income.

e) Original degrees, certificates and result cards of SSC, FSc. BSc, GCE(A), Diploma of Associate Engineers or the equivalent qualifications and their duplicate attested photocopies.

f) Original Marks Sheet of Entry Test.

g Original NCC certificate.

h Original Domicile certificate.

i) Attested photocopy of National Identity Card/Form B.

j) Bio-Data Sheet (F-VII) duly completed.

k) Undertaking (F-VIII) on a Rs.20/- judicial paper duly completed.

36.3. Relaxation in Time Limit:

If a selectee is prevented by unavoidable circumstances from timely fulfillment of the requirements laid down in 36.2, he should intimate the Dean of the Faculty about it within the prescribed time limit along with relevant documentary proof. The Dean may, at his discretion, grant relaxation in the time limit, which shall not exceed THREE days.

36.4. Forfeiture of Right for Admission

A selected who fails to fulfill the requirements laid down in 36.2 within the prescribed time limit shall forfeit his right of admission.

36.5. Provisional Admission

On fulfillment of the obligations mentioned in 36.2 a selectee will be admitted to the university. This admission shall however, be provisional until all the original degrees or certificates, submitted by him, have been verified for their veracity. In case any document proves to be false, fake, or fabricated at a later stage, a provisionally admitted student shall be liable to expulsion from the university and to any other disciplinary or legal action the university may deem fit. Moreover, all the fees and charges deposited by him shall stand forfeited in favor of the university.

36.6. Deadlines for Admission

dmission shall be closed from date as given in admission schedule (clause 40).

36.7. Notification of Selection of Categories B, C, D, E, F, H, J, K

The applicants for the seats reserved for these categories will be informed about selections by the authority responsible for their selection. After that the university will issue them call letters with a target date to report in the Admission Office to complete the remaining admission formalities.

37. FEES AND OTHER CHARGES

37.1 The following fees and charges are to be paid by the students admitted to the bachelor degree courses. The same are subject to revision/modification by the University authorities at any time without prior notification.

Non-Recurring (Payable at the time of admission)	(In Pak. Rupees)
Admission fee/Re-admission Fee	2000
Registration Fee	2000
University Security (Refundable)	1000
Library Security (Refundable)	500
Survey Camp Charges (for Civil Engg. Only)	1500
Students Bus Card Fee	30
Students Identity Card Fee	30
Verification Fee	500
Recurring Fee (per semester)	
Tuition Fee	33600 (Subsidized Rs. 3600)
Tutorial Fee	50
Inter-University Tournament Fee	50
Magazine Fee	40
Medical Fee	150
Library Fund	75
Instructional Tour Fee	150
Recreation Fee	500
Bus Fare for Resident	600
Bus Fare for Non-Resident	1500

37.2 For Examination Fees, see the relevant section

37.3 The University also grants fee remission and fee concession as per rules to subsidized students

Students are directed to maintain their own personal record of original receipts of dues till clearance to avoid problem in future. Non production of original Dues/receipts on demand can be considered as non-deposit of fee

37.4 SUBSIDY IN TUITION FEE

University provides the subsidy @Rs 30,000/- per semester to all the students, except those admitted under categories A2, H & F and W2 and S2 categories of Sub-Campus Chakwal. But, if a student is found guilty of indulging in unhealthy activities, this subsidy may be fully or partially withdrawn by the Vice-Chancellor.

37.5 The Dean of the concerned faculty, on the recommendation of the Chairman concerned, may grant extension in payment of dues to the needy students on cogent reasons recorded in writing for a certain period beyond the schedule of the dues circulated by the Treasurer. He

may also allow the payment of dues in TWO installments. However, remission of late fee fine or re-admission fee is not allowed in any case.

37.6 Once a student is registered, no refund of any amount deposited by the student for admission, except the securities, shall be allowed in any case at any stage.

37.7 University Dues received in favour of a student under National Bank of Pakistan/ Pakistan Bait-Ul- Mall scheme or any financial assistance received from agency/organization will be adjusted against his outstanding dues; the amount will not be refunded to the student. In case he has already been granted Half/Full fee concession for the said period it will stand cancelled automatically and he will deposit the fee concession amount in favour of the University. Excess amount will also be forfeited in favour of the university, if any. Student can avail one financial benefit from any agency.

37.8 HOSTEL CHARGES

	(In Pak. Rupees)
Hostel Security (Refundable) Payable at the time of admission	3000
Mess Security (Refundable) Payable at the time of admission	3000
Service and Contingency Charges (Payable at the time of admission)	1000
Room Rent (Per Semester)	
Cubicle	1500
Dormitory	1200
Electricity Charges (Per semester)	
Room (Cubicle)	1800
Room (Dormitory)	1200
Room Heater/fans	1800
Sui Gas Charges	600
Air Cooler Charges (per session)	1200

37.9 Periods of Fees and Other Charges:

Tuition, recreation, union, Sui gas charges and medical fees are charged for whole year i.e. for twelve months. The hostel charges are payable for the whole semester.

Electricity charges for fans are payable for summer session and will be charged with the fee during spring semester. While the electricity charges for room heaters are payable for winter session and will be charged with the fee during fall semester.

With the prior permission of the Senior Warden, the resident students can use air coolers during summer session. They will be charged an additional amount of Rs. 1200/- per room per session.

37.10 Securities

All kind of securities mentioned above remaining unclaimed for two years from the date of becoming due for refund shall lapse to the University for transfer to the Endowment Fund.

37.11 Refund of Securities

The university security, library security, hostel security and mess security are refunded when a student leaves the university or the hostel (in case of mess security) after deduction of outstanding dues of the university, library, or the hostel respectively.

The university security, however, shall stand forfeited if a student withdraws from or leaves the university before completing the first year.

37.12 Non-payment of Fee and Charges:

A fine of Rs.10.00 per day will be charged for a period of 30 days after the last date fixed for payment of fees and charges. After that, the name of the defaulter will be struck off the rolls of the university and he will have to pay the re-admission fee along with the fees and fine before he is re- admitted. Application to this effect shall be submitted to the concerned Dean of Faculty.

However, a student who receives scholarship through the university Treasurer may pay his fee and charges without fine within a week of receipt of the scholarship for the corresponding period.

38. COURSES UNDER SEMESTER SYSTEM

38.1 B.Sc. CIVIL ENGINEERING

COURSES FOR FIRST YEAR

1ST Semester

Course No.	Course Title	Credit Hours	
		Part I	Part II
CE-101	Civil Engineering Drawing	1	2
CE-102	Engineering Mechanics.	2	1
CE-103	Engineering Geology	2	1
CE-104	Hydrology & Water Resources	2	1
MA-105	Mathematics-I	3	0
Total:		**10**	**5**
Semester Total for Part-I & II		**15**	

2nd Semester

CE-106	Surveying-I	2	4
CE-107	Civil Engineering Materials	2	1
CE-108	Communication Skills & Technical Report Writing	1	1
MA-109	Mathematics-II	3	0
HU-110	Pakistan studies	2	0
Total:		**10**	**6**
Semester Total for Part-I & II		**16**	
Total for 1st Year		**31**	

COURSES FOR SECOND YEAR

3rd Semester

Course No.	Course Title	Credit Hours	
		Part I	Part II
CE-201	Fluid Mechanics-I	2	1
CE-202	Surveying-II	2	4
CE-203	Properties of Concrete	2	1
CE-204	Civil Engineering Practice	2	1
MA-205	Mathematics and Computer Programming	2	1
Total		**10**	**08**
Semester Total for Part-I & II		**18**	

4th Semester

CE-206	Theory of Structures-I	3	1
CE-207	Strength of Materials-I	2	1
CE-208	Soil Mechanics-I	2	1
CE-209	Drawing Estimation & Construction	1	3
HU-210	Islamic Studies	2	0
Total		**10**	**6**
Semester Total for Part-I & II		**16**	
Total for 2nd Year		**34**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	Course Title	Credit Hours	
		Part I	Part II
CE-301	Theory of Structures-II	3	1
CE-302	Strength of Materials.-II	3	1
CE-303	Soil Mechanics-II	2	2
CE-304	Construction Planning & Management	2	1
Total		**10**	**5**
Semester Total for Part-I & II		**15**	

6th Semester

CE-305	Computer Application	2	2
CE-306	Reinforced Concrete-I	3	1
CE-307	Design of Steel Structures.	2	1
CE-308	Fluid Mechanics-II	2	1
CE-309	Transportation Engineering-I	2	2
Total		**11**	**7**
Semester Total for Part-I & II		**18**	
Total for 3rd Year		**33**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	Course Title	Credit Hours	
		Part I	Part II
CE-401	Reinforced Concrete-II	3	1
CE-402	Hydraulics Engineering	2	1
CE-403	Environmental Engineering-I	2	1
CE-404	Transportation Engineering-II	2	1
CE-405	Foundation Engineering	3	1
CE-406(A)	Project	0	2
Total		**11**	**7**
Semester Total for Part-I & II		**18**	

8th Semester

CE-407	Structural Engineering	2	1
CE-408	Irrigation Engineering	2	1
CE-409	Design of Structures	1	3
CE-410	Environmental Engineering-II	1	2
CE-411	Computer Aided Analysis & Design	1	2
CE-406(B)	Project	0	2
Total		**08**	**10**
Semester Total for Part-I & II		**18**	
Total for Final Year		**36**	
Grand Total for Four Years		**134**	

38.2 B.Sc. ELECTRICAL ENGINEERING

COURSES FOR FIRST YEAR ELECTRICAL ENGINEERING

1ST Semester

Course No.	Course Title	Credit hours	
		Part-I	Part-II
EE-111	Linear Circuit Analysis	3	1
EE-112	Workshop Practice	1	1
GS-113	Applied Physics	3	0
CS-114	Computer Fundamentals	2	1
GS-115	Applied Calculus	3	0
HU-116	Islamic Studies	2	0
Total		**14**	**3**
Semester Total for part-I & part-II		**17**	

2nd Semester

EE-121	Electro Mechanical System	3	1
EE-122	Electronic Devices and Circuits	3	1
EE-123	Engineering Drawing & CAD	1	1
GS-124	Linear Algebra	3	0
GS-125	Differential Equation	3	0
ME-126	Basic Mechanical Engineering	3	0
Total		**16**	**3**
Semester Total for part-I & part-II		**19**	
Total for 1st Year		**36**	

COURSES FOR SECOND YEAR

3rd Semester

Course No.	Course Title	Credit hours	
		Part-I	Part-II
EE-211	Digital Logic Design	3	1
EE-212	Network Analysis	3	1
GS-213	Complex Variable & Transform	3	0
HU-214	Communication Skills	3	0
HU-215	Pak. Studies	2	0
Total		**14**	**2**
Semester Total for part-I & part-II		**16**	

4th Semester

EE-221	Instrumentation & Measurements	3	1
CS-222	Object Oriented Programming	2	1
ME-223	Engineering Mechanics	3	0
GS-224	Numerical Analysis	3	0
HU-225	Engineering Ethics	3	0
Total		**14**	**2**
Semester Total for part-I & part-II		**16**	
Total for 2nd Year		**32**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	Course Title	Credit hours	
		Part-I	Part-II
EE-311	Signals and Systems	3	1
EE-312	Electromagnetic Field Theory	3	0
CS-313	Computer Organization	3	1
GS-314	Probability & Statistics for Engineers	3	0
MS-315	Engineering Economics	3	0
Total		**15**	**2**
Semester Total for part-I & part-II		**17**	

6th Semester

EE-321	Microprocessor Based System	3	1
EE-322	Linear Control System	3	1
EE-323	Introduction to Power Engineering	3	0
MS-324	Engineering Management	3	0
EE-325	Elective-I	3	1
Total		**15**	**3**
Semester Total for part-I & part-II		**18**	
Total for 3rd Year		**35**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	Course Title	Credit hours	
		Part-I	Part-II
EE-411	Signal Processing	3	1
EE-412	Design Project	0	2
EE-413	Elective-II	3	1
EE-414	Elective-III	3	1
Total		**9**	**5**
Semester Total for part-I & part-II		**14**	

8th Semester

EE-421	Senior Design Project	0	4
EE-422	Elective-IV	3	1
EE-423	Elective-V	3	1
HS-414	Social Sciences	3	0
Total		**9**	**6**
Semester Total for part-I & part-II		**15**	
Total for Final Year		**29**	
Grand Total for Four Years		**132**	

*ELECTIVE COURSES FOR SPECIALIZATION

1. Power Engineering

S. No.	Course Title
1	Power System Analysis
2	Power Economics and Management
3	Renewable Energy Systems
4	Power Generation
5	Power Distribution and Utilization
6	Electrical Machine Design and Equipment Training
7	Power System Protection
8	Power System Operation and Control
9	Electrical Power Transmission
10	Fundamentals of High Voltage Engineering
11	Power Electronics
12	Advanced Electrical Machines
13	Advanced Insulation Materials
14	Electrical Estimation Installation & Planning

2. Electronics Engineering

S. No.	Course Title
1	VLSI Design
2	Industrial Automation
3	Industrial Process Control
4	Digital Electronics
5	Digital Instrumentation
6	Opto-Electronics
7	Computer Communication Networks
8	Industrial Electronics
9	Power Electronics
10	Digital Signal Processing
11	Advanced Digital Design
12	Electromagnetic Compatibility
13	Digital Image Processing

3. Telecommunication Engineering

S. No.	Course Title
1	Microwave Devices
2	Communication Systems
3	Optical Fiber Communication
4	Radar Systems
5	Mobile Communication
6	Satellite Communication
7	Telecommunication Management
8	Propagation and Antennas
9	Electromagnetic Compatibility
10	Digital Signal Processing
11	Multimedia Communication

4. Computer Engineering

S. No.	Course Title
1	Computer Communication Networks
2	Multimedia Communication
3	Digital compression methods
4	Computer Graphics
5	Digital Signal Processing
6	Digital Image Processing
7	Artificial Intelligence and Neural Networks
8	Embedded System Design
9	Computer Architecture and Organization
10	Data Structures and Algorithm
11	Relational Database Management System
12	Fundamentals of Operating Systems
13	Software Engineering
14	Management Information Systems
15	Parallel and Distributed Processing
16	Operating systems

5. Control Engineering

S. No.	Course Title
1	Robotics
2	Industrial Automation
3	Digital Control Systems
4	Artificial Intelligence and Neural Networks
5	Fuzzy Logic
6	Advanced Control Systems
7	Optimal Control
8	Introduction to Adaptive Control
9	Stochastic Processes & Control
10	Discrete Structures
11	Multivariable Control
12	Introduction to Non-linear Control

***Note:**

1. The courses offered by the department in a term can be changed depending on the availability of teachers and related facilities and will be notified one weak before the start of the term.

2. The department will offer Elective Courses depending on the available facilities.

38.3 B.Sc. COMPUTER ENGINEERING

COURSES FOR FIRST YEAR COMPUTER ENGINEERING

1st Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-101	Introduction to Computing	2	1
EE-102	Basic Electrical Engineering	3	1
MA-103	Calculus & Analytical Geometry	4	0
EE-104	Applied Physics	3	0
HU-105	Communication Skills	3	0
Total		**15**	**2**
Semester Total for Part-I & Part-II		**17**	

2nd Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-106	Programming Techniques	3	1
EE-107	Electronics	3	1
CP-108	Engineering Drawing & Workshop	0	2
MA-109	Linear Algebra & Differential Equations	4	0
HU-110	Islamic Studies	2	0
HU-111	Engineering Economics	2	0
Total		**14**	**4**
Semester Total for Part-I & Part-II		**18**	
Total for 1st Year		**35**	

COURSES FOR SECOND YEAR

3rd Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-201	Discrete Structures	3	0
CP-202	Data Structures & Algorithms	3	1
CP-203	Digital Logic Design	3	1
EE-204	Electric Circuits	3	1
HU-205	Technical Report Writing	2	0
HU-206	Pakistan Studies	2	0
Total		**16**	**3**
Semester Total for Part-I & Part-II		**19**	

4th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-207	Numerical Methods	2	1
CP-208	Computer Organization & Architecture	3	0
MA-209	Probability & Statistics	2	0
CP-210	Signals & Systems	3	0
CP-211	Object Oriented Programming	2	1
HU-212	Engineering Management	2	0
Total		**14**	**2**
Semester Total for Part-I & Part-II		**16**	
Total for 2nd Year		**35**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-301	Database Management System	3	1
CP-302	Communication Systems	3	1
CP-303	Microprocessor Systems	2	1
CP-304	Operating Systems	3	1
	Elective-I (Technical)	3	1
Total		**14**	**5**
Semester Total for Part-I & Part-II		**19**	

6th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-305	Computer Communication and Networks	3	1
SE-306	Software Engineering	3	0
CP-307	Microcontroller & Microprocessor Applications	2	1
CP-308	Advanced Digital Design	3	0
	Elective-II (Technical)	3	1
Total		**14**	**3**
Semester Total for Part-I & Part-II		**17**	
Total for 3rd Year		**36**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-401	Digital Signal Processing	3	1
	Elective-III	3	1
	Elective-IV	3	1
HU-402	Professionalism & Ethics	3	0
CP-403	Final Year Project-I	0	2
Total		**12**	**5**
Semester Total for Part-I & Part-II		**17**	

8th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
HU-404	Entrepreneurship & Leadership	3	0
	Elective V	3	1
	Elective VI	3	1
CP-403	Project	0	4
Total		**9**	**6**
Semester Total for Part-I & II		**15**	
Total for Final Year		**32**	
Grand Total for Four Years		**138**	

ELECTIVE COURSES FOR THIRD YEAR

Course No.	COURSE TITLE	CREDIT HOURS	
		Part I	Part II
CP-309	Information Theory	3	1
CP-310	System Programming	3	1
CP-311	Modeling & Simulation	3	1
CP-312	Computer Graphics	3	1
CP-313	Compiler Design	3	1
CP-314	Artificial Intelligence	3	1

ELECTIVE COURSES FOR FINAL YEAR

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
CP-407	Machine Vision	3	1
CP-408	Operating Research	3	0
CP-409	Management Information System	3	0
CP-410	Network Security	3	1
CP-411	VLSI System Designs	3	1
CP-412	Microwave and Optical Communication	3	1
CP-413	Machine Learning	3	1
CP-414	Machine & Drives	3	1
CP-415	Digital Image Processing	3	1

38.4 COURSE OUTLINE FOR B.Sc. SOFTWARE ENGINEERING

COURSES FOR FIRST YEAR

1st Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-101	Introduction to Computing	3	1
SE-102	Programming Fundamentals	3	1
SE-103	Applied Physical Electronics	2	1
SE-104	Calculus and Analytical Geometry	3	0
SE-105	Islamic Studies/Ethics	2	0
Total		**13**	**3**
Semester Total for Part-I & II		**16**	

2nd Semester

Course No.	COURSE NAME	CREDIT HOURS	
SE-106	Introduction to Software Engineering	3	0
SE-107	Digital Logic Design	3	1
SE-108	Data Structures & Algorithms	3	1
SE-109	Linear Algebra & Differential Equations	3	0
SE-110	Pakistan Studies	2	0
Total		**14**	**2**
Semester Total for Part-I & II		**16**	
Total for 1st Year		**32**	

COURSES FOR 2ND YEAR

3rd Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-201	Discrete Structures	3	0
SE-202	Object Oriented Programming	3	1
SE-203	Software Requirements Engineering	3	1
SE-204	English Composition and Comprehension	2	0
SE-205	Numerical Methods	2	1
Total		**13**	**3**
Semester Total for Part-I & II		**16**	

4th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-206	Software Design & Architecture	3	1
SE-207	Database Management Systems	3	1
SE-208	Computer Organization & Architecture	3	1
SE-209	Communication Skills	3	0
SE-210	Human Computer Interaction	3	0
Total		**15**	**3**
Semester Total for Part-I & II		**18**	
Total for 2nd Year		**32**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE -301	Web Engineering	3	1
SE-302	Operating Systems	3	1
SE-303	Probability and Statistics	3	0
SE -304	ERP Systems	2	1
SE -305	Technical Report Writing	2	1
Total		**13**	**4**
Semester Total for Part-I & II		**17**	

6th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-306	Software Quality Assurance	3	1
SE-307	Computer Communication & Networks	3	1
SE-308	Computer Graphics	3	1
SE-309	Automata Theory	3	0
	Elective*	3	0
Total		**15**	**3**
Semester Total for Part-I & II		**18**	
Total for 3rd Year		**35**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-401	Software Project Management	3	1
SE-402	Software Engineering Economics	2	0
SE-403	Principles of Engineering Management	2	0
SE-404	Preliminary of Project Studies	3	1
	Elective*	3	0
	Elective*	0	2
Total		**13**	**4**
Semester Total for Part-I & II		**17**	

8th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
SE-405	Network & System Programming	3	1
SE-406	Project	3	1
	Elective*	3	0
	Elective*	0	4
Total		**9**	**6**
Semester Total for Part-I & II		**15**	
Total for Final Year		**32**	
Grand Total for Four Years		**133**	

***ELECTIVE COURSES FOR 6th SEMESTER SOFTWARE ENGINEERING**

Course No.	COURSE TITLE
SE-310	Data Authentication and Security
SE-311	Data Warehousing and Data Mining
SE-312	Artificial Intelligence
SE-313	Digital Image Processing

***ELECTIVE COURSES FOR 7th & 8th SEMESTER SOFTWARE ENGINEERING**

SE-407	Distributed Computing
SE-408	Compiler Construction
SE-409	Advanced Operating Systems
SE-410	Software Testing
SE-411	Real Time System
SE-412	Machine Learning
SE-413	Computer Vision
SE-414	Visual Programming
SE-415	Wireless Networks
SE-417	Advanced Software Technologies
SE-418	Operating System Design Concepts
SE-419	Robotics
SE-420	Parallel Processing
SE-421	Bio Informatics
SE-422	Embedded System Design
SE-423	Artificial Neural Networks
SE-424	Multimedia System
SE-425	Network Security
SE-426	System for Small and Mobile Platforms

38.5 COURSE OUTLINE FOR B.Sc. TELECOMMUNICATION ENGINEERING

COURSES FOR FIRST YEAR

1st Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE -101	Communication Skills	3	0
TE -102	Introduction to Computing	2	1
TE -103	Calculus & Analytical Geometry	3	0
TE -104	Applied Physics	3	1
TE -105	Linear Algebra	3	0
Total		**14**	**2**
Semester Total for Part-I & II		**16**	

2nd Semester

Course No.	COURSE NAME	CREDIT HOURS	
TE-106	Critical Reading & Writing	3	0
TE-107	Object Oriented Programming	2	1
TE-108	Islamic Studies	2	0
TE-109	Introduction to Telecommunications	3	0
TE-110	Multivariable Calculus	3	0
TE-111	Pakistan Studies	2	0
Total		**15**	**1**
Semester Total for Part-I & II		**16**	
Total for 1st Year		**32**	

COURSES FOR 2ND YEAR

3rd Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE-201	Technical Report Writing	3	0
	ID Elective I	2	1
TE-202	Differential Equations	3	0
TE-203	Circuit Analysis	3	1
TE-204	Computer Aided Engineering Drawing	0	1
TE-205	Basic Electronics	3	1
Total		**14**	**4**
Semester Total for Part-I & II		**18**	

4th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE-206	Computer Communication & Networks	3	1
TE-207	Amplifiers & Oscillators	3	1
TE-208	Signals & Systems	3	0
TE-209	Digital Logic Design	3	1
TE-210	Probability Methods in Engineering	3	0
Total		**15**	**3**
Semester Total for Part-I & II		**18**	
Total for 2nd Year		**36**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE -301	Electromagnetic Theory	3	0
TE-302	Control Systems	3	1
TE-303	Communication Systems	3	1
TE -304	Digital Signal Processing	3	1
TE – 305	Engineering Economics	3	0
Total		**15**	**3**
Semester Total for Part-I & II		**18**	

6th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE-306	Digital Communication	3	1
TE-307	Wave Propagation & Antennas	3	1
TE-308	Wireless & Mobile Communication	3	0
TE-309	Microprocessors & Interfacing Techniques	3	1
TE – 310	Professional Practices	3	0
Total		**15**	**3**
Semester Total for Part-I & II		**18**	
Total for 3rd Year		**36**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE-401	Engineering Management	3	0
TE-402	RF & Microwave Engineering	3	1
	ID Elective I	2	1
	MBC Depth Elective I	3	1
	Final Year Design Project-I	0	3
Total		**11**	**6**
Semester Total for Part-I & II		**17**	

8th Semester

Course No.	COURSE NAME	CREDIT HOURS	
		Part I	Part II
TE-403	Transmission & Switching Systems	3	1
	MBC Depth Elective I	3	1
	Social Sciences Elective II	3	0
TE-404	Final Year Design Project-II	0	3
Total		**9**	**5**
Semester Total for Part-I & II		**14**	
Total for Final Year		**31**	
Grand Total for Four Years		**135**	

ELECTIVE COURSES FOR TELECOMMUNICATION ENGINEERING

Major Based Core (MBC) Depth Electives

Course No.	COURSE TITLE
TE-405	Multimedia System
TE-405	Digital Electronics
TE-407	Digital Image Processing
TE-408	Satellite Communication
TE-409	Optical Fiber Communications
TE-410	Telecom Policies and Protocols
TE-411	Telecom Traffic Engineering
TE-412	Spread Spectrum Communications
TE-413	Speech Processing
TE-414	Next Generation Networks
TE-415	Network Security
TE-416	Broadband Communication Networks
TE-417	Radar System Engineering
TE-418	Telecommunication Management Networks
TE-419	Compression Techniques
TE-420	Telecommunication Systems

IDE Electives

TE-211	Numerical Methods in Engineering
TE-212	Operating Systems
TE-213	Data Structure and Algorithms
TE-214	Database Management systems
TE-420	Embedded Systems
TE-421	Artificial Intelligence
TE-422	Reliability in Telecommunication Systems
TE-423	VLSI Systems

Social Sciences

TE-424	Organizational Behavior
TE-425	Psychology
TE-426	Public Policy
TE-427	Sociology
TE-428	Political Science
TE-429	Pakistani Culture and Society

38.6 B.Sc. MECHANICAL ENGINEERING

COURSES FOR FIRST YEAR

1st Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ME-101	Computer Programming & Applications	2	1
ME-102	Engineering Statics	2	1
ME-103	Applied Thermodynamics-I	3	1
ME-104	Workshop Technology	1	2
MA-105	Applied Mathematics-I	4	0
Total		**12**	**5**
Semester Total for Part-I & II		**17**	

2nd Semester

EE-106	Electrical Engineering	2	1
ME-107	Engineering Drawing & Graphics	2	2
ME-108	Mechanics of Materials-I	3	1
ME-109	Engineering Dynamics	2	1
ME-110	Fluid Mechanics	2	1
Total		**11**	**6**
Semester Total for Part-I & II		**17**	
Total for 1st Year		**34**	

COURSES FOR SECOND YEAR

3rd Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ME-201	Machine Design & CAD-I	2	2
ME-202	Applied Thermodynamics-II	2	1
ME-203	Hydraulic Machinery	2	1
ME-204	Machine Tools & Machining	3	1
HU-205	Islamic Studies	2	0
Total		**11**	**5**
Semester Total for Part-I & II		**16**	

4th Semester

ME-206	Mechanics of Materials-II	3	1
EE-207	Modern Electronics	2	1
MA-208	Applied Mathematics-II	4	0
ME-209	Mechanics of Machines-I	2	1
ME-210	Industrial Engineering-I	2	1
Total		**13**	**4**
Semester Total for Part-I & II		**17**	
Total for 2ND Year		**33**	

COURSES FOR THIRD YEAR

5th Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ME-301	Mechanics of Machines-II	2	1
ME-302	Machine Design & CAD-II	2	2
ME-303	Engineering Economics & Optimization	3	1
ME-304	Engineering Materials	2	1
HU-305	Pakistan Studies	2	0
Total		**11**	**5**
Semester Total for Part-I & II		**16**	

6th Semester

ME-306	Heat and Mass Transfer	3	1
ME-307	Energy Resources & Utilization	2	1
ME-308	Production Engineering	2	1
ME-309	Power Plants	2	1
ME-310	Finite Element Methods	3	1
Total		**12**	**5**
Semester Total for Part-I & II		**17**	
Total for 3rd Year		**33**	

COURSES FOR FINAL YEAR

7th Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ME-401	Internal Combustion Engines	2	1
ME-402	Mechanical Vibration	3	1
ME-403	Refrigeration & Air-conditioning	3	1
ME-404	Industrial Engineering-II	2	1
ME-405	Advanced Manufacturing System	2	1
Total		**12**	**5**
Semester Total for Part-I & II		**17**	

8th Semester

ME-406	Stress Analysis	2	1
ME-407	Engineering Management	2	1
ME-408	Gas Dynamics	2	1
ME-409 ME-412	Mechatronics & Robotics/ Instrumentation & Control	2	1
ME-410	Communication Skills	1	0
ME-411	Projects	0	6
Total		**9**	**10**
Semester Total for Part-I & II		**19**	
Total for Final Year		**36**	
Grand Total for Four Years		**136**	

39. CHAKWAL CAMPUS

Campus Director

Prof. Dr. Umar Farooq
PhD (Taxila)

The Chakwal City

The city was founded during the era of Mughal emperor Zaheer-ud-Din Baber. Alexander the great also passed through this region in 326 B.C. One of the Muslim Scientists Al-Beruni came to this valley and stayed here for some time. During his stay at Katas, he not only learned Sanskrit but also performed various geographic experiments and successfully measured the radius of earth.
Chakwal district is rich in natural resources such as coal, limestone, gypsum, salt, petroleum and other valuable minerals. Three cement plants with total production capacity of 24000 tons per day are already operational. Some textile factories and oil exploration companies are also working in the surrounding area.

The Sub-Campus Chakwal

Almost thirty years after the establishment of the main campus, first campus of UET Taxila at Chakwal started functioning in the year 2005. So far, two sessions have been enrolled in Electronics and Mechatronics engineering. Annual intake in each discipline is 52.

Location

The Sub-campus is situated in the heart of the Chakwal city in old Kachehri complex on Talagang road . Chakwal is located 110 Km south-east of the capital city of Islamabad in the Dhanni region of the Pothohar Plateau. The Chakwal campus can easily be approached by either of the two exits on the Motorway M2. i.e., Balkassar and Kallar Kahar. The main campus is under construction near the Balkasaar Interchange on a vast piece of land.

Administration

The campus Director under the command of Vice-Chancellor UET Taxila is the administrative and academic head of the Sub-Campus Chakwal. The overall management policy guidance is provided by the University Syndicate. The various academic and administrative bodies delineated in the UET's charter, function actively. The normal academic procedures and administrative rules of the UET Taxila are followed in the Sub- Campus Chakwal.

Faculty of Engineering

Two departments are functioning under the faculty of engineering. At present, degrees of B.Sc. Engg are offered in the following departments:

- Department of Electronics Engineering
- Department of Mechatronics Engineering

Academic Programs

The sub-Campus Chakwal of UET Taxila offers four years under graduate programs in Electronics Engineering and Mechatronics Engineering.

Future Plan

The Sub-Campus Chakwal has planned to establish three more departments in the second phase. The degree awarding programs in Electrical, Mechanical, and Gas & Petroleum engineering will be started with the help of Higher Education Commission.

Hostel Facility

Hostel facility is NOT available at Chakwal Campus. Students will have to reside at their own arrangements.

Rules and Regulations

In general, all the rules and regulations mentioned for the main campus (UET Taxila) in the prospectus are applicable for Sub- Campus Chakwal.

The Department of Electronics Engineering

Faculty

Professor

1.	**Umar Farooq**	PhD (Taxila)

Lecturers

2.	**Ahmad Umar Niazi**	BSc Engg (Lahore)
3.	**Furqan Shaukat**	BSc Engg (Lahore)
4.	**Faisal Masud**	BSc Engg (Lahore)
5.	**Abdul Basit**	BSc Engg (NU-FAST Islamabad)

Shared Faculty

Professors

6.	**Tahir Nadeem Malik**	MSc Engg (Lahore)
7.	**Aftab Ahmed**	MSc Engg (Lahore)
8.	**M. Iram Baig**	MSc Engg. (Lahore)

Associate Professors

9.	**Abdur Rauf**	MSc Mathematics (Turkey)
10.	**Hafiz M.Rafi**	M Phil Islamic Studies
11.	**M. Aslam Kahut**	M Phil Mathematics

Assistant Professors

12.	**Ilyas Ahmed**	MSc Engg (Taxila)
13.	**Gulistan Raja**	MSc Engg (Japan)

Lecturer

14.	**Raja Abdullah Ahmad**	BSc Engg (Taxila)

The Department

Electronics is one of the major fast growing industries. It covers a wide range of applications from household items to industrial electronic equipments. Wide range of electronic devices is used in oil, energy, agriculture, steel, petroleum and chemical industries. Electronics engineers can contribute in finding solutions to the practical problems faced by these industries. At present, there are 104 students enrolled in the two academic sessions at undergraduate level in the Electronics Engineering Department.

Courses of study

All the subjects in Electronics Engineering Department at undergraduate level allow students to go deeply into electronic signals and systems, control engineering, digital signal processing, communication and microwave engineering. The above mentioned curriculum lays strong stress on laboratory based practicals to consolidate the theoretical knowledge attained.

Laboratories

Following laboratories have been established with the state of art equipment.

Electronics Lab

- Electrical Devices & Circuits
- Semiconductor Materials & Devices
- Electronics Circuits
- Communication System

Circuits & Simulation Lab.

- Circuit Analysis
- Digital Logic Design
- Microprocessor

Computer Lab

- Computer Fundamentals & Programming
- CAD
- Object Oriented Programming
- Data Structures & Algorithms
- Numerical Methods

Microprocessor & Microcontroller Lab

Note:- As sub-campus Chakwal is in developmental phase, therefore some laboratory facilities are yet in the process of completion. In addition, laboratory facilities at UET Taxila are fully available to students of sub-campus.

Department of Mechatronics Engineering

Faculty

Associate Professor

1.	**Bakht Bahadur Rana**	PhD (UK)

Assistant Professor

2.	**Amir Sultan**	MSc Engg (UK)

Lecturers

3.	**Hafiz Muhammad Khurram Ali**	BSc Engg (Taxila)
4.	**Shahid Mehmood**	BSc Engg (Taxila)
5.	**Irfan Azhar**	BSc Engg (Lahore)

Shared Faculty

Professors

6.	**Shahab Khushnood**	PhD (NUST)
7.	**Sajid Bashir**	MSc Engg (Taxila)
8.	**M. Iram Baig**	MSc Engg (Lahore)
9.	**Khalid Munawar**	PhD (Japan)

Associate Professors

10.	**Jehanzaib Mirza**	PhD (Taxila)
11.	**Abdur Rauf**	MSc Mathematics (Turkey)
12.	**M. Aslam Kahut**	MSc (PU)
13.	**Hafiz M. Rafi**	MA (PU)

Assistant Professors

14.	**Zahid Suleman Butt**	MSc Engg (Taxila)
15.	**Gulistan Raja**	MSc Engg (Japan)

Lecturer

15.	**Rashid Sajid**	MSc Engg (Lahore)

The Department

The educational aim of the undergraduate program in the Department of Mechatronics Engineering is to develop diversified multi-technological approach by integrating mechanical engineering, computer engineering, electronics and information sciences. Presently, there are 104 students enrolled in the two academic sessions at undergraduate level in the department of Mechatronics Engineering. Mechatronics engineers cater the national needs of industries in the field of robotics, automated manufacturing equipments, automobiles, security systems, treatment plants, medical equipments, etc..

Courses of study

Mechatronics Engineering program provides foundation for design of electromechanical devices ranging from large scale automated manufacturing systems to micro-scale sensors and instrumentation.

Mechatronics Engineering is related to multidisciplinary fields such as Mechanical Engineering, Electrical Engineering, Computer Science and Control Systems.

Mechatronics control is about the introduction of Mechatronics unit and integration of hydraulic control system, electric control system and computer control system. The content of engineering design methodology focuses on system modeling, performance simulation and optimal design. Fluid transmission teaches the basic theory of fluid power, hydraulic transmission, pneumatic transmission and common drive systems.

Laboratories

The following laboratories are established with state of the art equipment.

- Engineering Mechanics Lab
- Workshop
- Microcontroller Lab
- Mechatronics Lab

Computer Lab

- Computer Fundamentals & Programming
- CAD
- Object Oriented Programming
- Data Structures & Algorithms
- Numerical Methods

Note:- As sub-campus Chakwal is in developmental phase, therefore some laboratory facilities are yet in the process of completion. Moreover, laboratory facilities at UET Taxila are fully available for students of sub-campus.

Categories and Symbols (See relevant table at page 61)

Category W1 (Punjab Province Subsidized)
The applicant should be a bonafide resident of the Punjab province. The selection and allocation of disciplines are made by the university according to merit. Diploma holders are not eligible to apply.

Category W2 (Punjab Province Regular)
The applicant should be a bonafide resident of the Punjab province. The selection and allocation of disciplines are made by the university according to merit. Diploma holders are not eligible to apply.

Category S1 (Chakwal Domicile Subsidized)
The applicant should be a bonafide resident of district Chakwal. The selection and allocation of disciplines are made by the university according to merit. Diploma holders are not eligible to apply.

Category S2 (Chakwal Domicile Regular)
The applicant should be a bonafide resident of district Chakwal. The selection and allocation of disciplines are made by the university according to merit. Diploma holders are not eligible to apply.

Abbreviations for Disciplines

If a candidate gives options for admission in Chakwal Campus, he should use the following abbreviations for "Discipline".

Electronics Engineering, Chakwal Campus **Etro**
Mechatronics Engineering, Chakwal Campus **Mtro**
Under the column "category" use the symbols of W1 or W2 or S1 or S2.

NOTE: Only one "F1" is required to apply in disciplines of main campus Taxila and sub campus Chakwal. The applicant should precisely and carefully fill the "Preferences" table.

Eligibility requirement

An applicant for admission to BSc Engineering degree course in Electronics and Mechatronics Engineering (under any category) must fulfill the following eligibility requirements laid down in sub-section 27.1, 27.3, 27.4 and 27.5.

Merits for the Session 2007 (Entry-2007)

Category	W1 Subsidized	W2 Regular	S1 Tehsil Chakwal Subsidized	S2 Tehsil Chakwal Regular
Electronics	67.22	62.395	69.125	61.918
Mechatronics	64.718	54.843	65.039	59.211

Courses under Semester System
B.Sc. Electronics Engineering

Courses for 1st Year
1st Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
GS 111	Calculus and Analytical Geometry	3	0
ET 112	Basic Electronic Engineering	3	1
CS 113	Computer Fundamentals	2	1
GS 114	Applied Physics	3	0
HS 115	Islamic Studies/Ethical Behavior	2	0
Total		**13**	**2**
Semester Total for Part I & II		**15**	

2nd Semester

ET 121	Circuit Analysis-1	3	1
GS 122	Linear Algebra and Differential Equations	3	0
CS 123	Computer Programming	2	1
HS 124	Communication Skills	2	0
GS 125	Numerical Analysis	3	0
Total		**13**	**2**
Semester Total for Part I & II		**15**	
Total for 1st Year		**30**	

Courses for 2nd Year
3rd Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
HS 211	Society And Culture	2	0
GS 212	Complex Variables & Transforms	2	0
CS 213	Computer Aided Engineering Design	0	1
ET 214	Digital Logic Design	3	1
ET 215	Electronic Circuit Design	3	1
ET 216	Circuit Analysis-II	3	1
Total		**13**	**4**
Semester Total for Part I & II		**17**	

4th Semester

GS 221	Probability And Random Variables	2	0
ET 222	Electrical Machines	3	1
ET 223	Digital Systems	3	1
ET 224	Electromagnetic Field Theory	3	0
ET 225	Microprocessor And Microcontrollers	3	1
Total		**14**	**3**
Semester Total for Part I & II		**17**	
Total for 2nd Year		**34**	

Courses for 3rd Year
5th Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ET 311	Signal Processing	3	1
ET 312	Integrated Circuits	3	1
ET 313	Control Systems	3	0
ET 314	Instrumentation and Measurements	3	1
MS 315	Engineering Management	2	0
Total		**14**	**3**
Semester Total for Part I & II		**17**	

6th Semester

HS 321	Technical Report Writing And Presentation Skills	3	0
ET 322	Power Electronics	3	1
ET 323	Analog And Digital Communication	3	1
GS 324	Engineering Statistics	2	0
HS 325	Professional Ethics	3	0
Total		**14**	**2**
Semester Total for Part I & II		**16**	
Total for 3rd Year		**33**	

Courses for Final Year
7th Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
ET 411	Telecommunication Engineering	3	0
ET 412	Digital Signal Processing	3	1
ET 413	Elective-I	3	1
ET 414	Elective-II	3	1
ET 415-A	Electronic Engineering Project	0	3
Total		**12**	**6**
Semester Total for Part I & II		**18**	

8th Semester

ET 421	Advanced Topics in Electronics Engineering	3	0
ET 422	Elective-III	3	1
ET 423	Elective-IV	3	1
ET 415-B	Electronic Engineering Project	0	6
Total		**09**	**8**
Semester Total for Part I & II		**17**	
Total for Final Year		**35**	
Grand Total for Four Years		**132**	

List of Elective Courses

- EE-4XX Microelectronic Technology (3+1)
- EE-4XX Opto Electronics (3+1)
- EE-4XX Digital Instrumentation Systems (3+1)
- EE-4XX Industrial Electronics (3+1)
- CS- 4XX Advanced Objected-Oriented Programming (3+1)
- EE-4XX VLSI Design (3+1)
- EE-4XX FPGA-Based System Design (3+1)
- EE-4XX Laser and Fiber Optics (3+0)
- EE-4XX Mobile Communications (3+0)
- EE-4XX Satellite Communications (3+0)
- EE-4XX Microwave Engineering (3+1)
- EE-4XX Advanced Communication Systems (3+0)
- EE-4XX Optical Communication Systems (3+0)
- EE-4XX Wave Propagation and Antennas (3+1)
- EE-4XX Navigational Aids (3+1)
- EE-4XX Filter Design (3+1)
- EE/CS-4XX Digital Image Processing (3+0)
- EE/CS-4XX Pattern Recognition and Matching (3+0)
- EE-4XX Introduction to Robotics (3+1)
- EE-4XX Digital Control Systems (3+1)
- EE/CS-4XX Introduction to Neural Networks (3+0)
- EE/CS-4XX Fuzzy Logic and Simulation (3+0)
- EE-4XX Digital System Design (3+1)
- EE-4XX Operating System Concepts (3+0)
- EE/CS-4XX Computer Communication Networks (3+1)
- EE/CS-4XX Artificial Intelligence (3+1)
- EE-4XX Embedded System Design (3+0)
- EE-4XX Biomedical Instrumentation (3+1)
- EE-4XX Mechatronics Applications (3+0)
- (3 Credit-hour theory + 0 credit-hour lab)

B.Sc. Mechatronics Engineering
Courses for 1st Year
1st Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
GS 111	Calculus and Analytic Geometry	3	0
CS 112	Computer Fundamentals	2	1
MT 113	Engineering Mechanics-I	3	1
MT 114	Workshop Technology	2	1
ET 115	Basic Electrical Engineering	3	1
Total		**13**	**4**
Semester Total for Part I & II		**17**	

2nd Semester

MT 121	Engineering Drawing & CAD	2	1
GS 122	Linear Algebra and Differential Equations	3	0
MT 123	Engineering Mechanics-II	3	1
MT 124	Fundamentals of Mechatronics Engineering	3	0
GS 125	Complex Variables & Transforms	2	0
HS 126	Pak & Islamic Studies/Ethical Behavior	2	0
Total		**15**	2
Semester Total for Part I & II		17	
Total for 1st Year		34	

Courses for 2nd Year
3rd Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
MT 211	Applied Thermodynamics	3	0
ET 212	Electronic Circuits	3	1
MT 213	Mechanics of Materials	2	1
GS 214	Engineering Statistics	2	0
ET 215	Circuit Analysis	3	1
Total		13	**3**
Semester Total for Part I & II		16	

4th Semester

ET 221	Digital Systems	3	1
MT 222	Theory of Machines	3	0
MT 223	Machine Design & CAD	3	0
MT 224	Machine Tools & Manufacturing Processes	3	0
MT 225	Engineering Materials	2	0
HS 226	Communication Skills	2	0
Total		16	1
Semester Total for Part I & II		17	
Total for 2nd Year		33	

Courses for 3rd Year
5th Semester

Course No.	Course Title	Credit hours	
		Part I	Part II
MT 311	Mechatronics Components	3	1
ET 312	Electromechanical Systems	3	1
HS 313	Professional Ethics	2	0
MT 314	Hydraulic & Pneumatic Systems	3	1
GS 315	Numerical Methods for Engineers	2	0
HS 316	Engineering Management	2	0
Total		15	2
Semester Total for Part I & II		17	

6th Semester

MT 321	Mechatronics Design-I	2	1
MT 322	Mechatronics & Instrumentation	3	1
ET 323	Power Electronics	2	1
ET 324	Microprocessor & Microcontrollers	3	1
HS 325	Engineering Economics	2	0
Total		12	**4**
Semester Total for Part I & II		16	
Total for 3rd Year		**33**	

Courses for Final Year

7th Semester

Course No.	Course Title	Credit hours	
		Part I	**Part II**
MT 411	Mechatronics Design-II	0	4
ET 412	Digital Signal Processing	3	1
MT 413	Feedback Control System	3	0
GS 414	Industrial Control & Manufacturing System	3	0
MT 415	Special Topics in Machatronics	3	0
MT 416-A	Machatronics Engineering Project	0	**2**
Total		**12**	7
Semester Total for Part I & II		19	

8th Semester

MT 421	Artificial Intelligence	3	1
MT 422	Automation & Robotics	3	1
MT 423	Mechatronics & System Dynamics	3	0
MT 424	Modeling and Simulation	3	0
MT 416-B	Machatronics Engineering Project	0	6
Total		**12**	8
Semester Total for Part I & II		20	
Total for Final Year		39	
Grand Total for Four Years		139	

40. ADMISSION SCHEDULE FOR 2008-ENTRY

Entry Test Forms will be available	1st August to 20th August 2008
Last Date of Receipt of Entry Test Forms	20th August, 2008
Entry Test	24th August, 2008
Prospectus will be available	24th August to 5th September,. 2008
Application Receipt	up to 05th September, 2008
Hifz-e-Quran Test	08th September, 2008 (Monday 09:00 A.M.)
1st Merit List on the Notice Board/web site	10th September, 2008
2nd Merit List on the Notice Board/web site	19th September, 2008
3rd Merit List on the Notice Board/web site	27th September, 2008
Issuance of Regd. No. to Admitted Students	06th October, 2008
Start for 1st Year Classes	07th October, 2008
Admission Closed	31st October, 2008

1. **NB**: Regardless of the date & time of dispatch, no application shall be entertained after the last date.
2. **NB:** The selected candidate in a merit list must joint the university within specified time limit as per requirements laid down under clause 35, failing which his name shall be dropped from the particular category and no claim, on whatever grounds, shall be entertained thereafter.
3. **NB**: No call letters shall be posted to the selected candidates. The detailed lists can be viewed at the official web site of the university at www.uettaxila.edu.pk.
   NB: The display of merit lists shall continue till the date of admission closed subject to availability of seats.

41. ADMISSION COMMITTEE UNDERGRADUATE - ENTRY 2008

Chairman:

Prof. Dr. Muhammad Zafrullah	051 9047566

Convener

Prof. Dr. Qaiser uz Zaman Khan	051 9047664

Members

The Registrar	051 9047405
The Treasurer	051 9047413
Mr. Abdul Rauf, Associate Professor	051 9047491
Engr. M. Kashif Iqbal, Asstt. Professor	051 9047687
Engr. Hafiz M. Irfan Arshad, Asstt. Professor	051 9047554
Engr. Fiaz Tahir, Asstt. Professor	051 9047660
Engr. Nazir Ahmad Anjum, Lecturer	051 9047692
Engr. Muhammad Rizwan, Lecturer	051 9047589
Engr. Malik Muhammad Asim, Lecturer	051 9047590
Engr. Kashif Habib, Lecturer	051 9047555
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