



Undergraduate PROSPECTUS 2006









UNIVERSITY OF ENGINEERING AND TECHNOLOGY, TAXILA



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA In The Name Of Allah, The Most Beneficent, Most Merciful, Most Merciful,



UNDER GRADUATE PROSPECTUS 2006



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

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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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UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

ADMINISTRATION

Organizational Setup

Chancellor Lt. Gen. (Retd.) Khalid Maqbool Governor of the Punjab

Vice Chancellor Prof. Dr. Habibullah Jamal

> Registrar **Prof. Aziz ur Rehman**

Pro Chancellor **Mian Imran Masood** Minister for Education, Punjab

Controller of Examinations Mr. Mahmood Akhtar

> Treasurer Mr. Walid Tariq





Deans of **Faculties**

Faculty of Civil and Environmental Engineering **Prof. Shaukat Ali Khan** Faculty of Electronics and Electrical Engineering **Prof. Muhammad Amin** Faculty of Mechanical and Aeronautical Engineering **Prof. Mukhtar Hussain Sahir** Faculty of Telecommunication and Information Engineering **Prof. Dr. Muhammad Zafrullah**

Chairmen of **Academic** Departments

Department of Civil Engineering **Prof. Dr. Mumtaz Ahmad Kamal** Department of Computer Engineering **Prof. Dr. Muid ur Rehman Mufti** Department of Electrical Engineering **Prof. Umar Farooq** Department of Mechanical Engineering **Prof. Muhammad Anwar Khan** Department of Software Engineering **Prof. Dr. Attaullah Solangi**

Director **Chakwal** Campus

Prof. Dr. M. A. Rehman Sheikh

Administration



SERVICES AND COMMON FACILITIES

Chairmen of Committees

Health	Prof. Mukhtar Hussain Sahir	
Library	Prof. Dr. M. Zafrullah	
Transport	Engr. Zahid Suleman Butt	
Sports	Engr. Liaqat Ali Qureshi	
Mosques	Mr. Abdur Rauf	
Time Table	Prof. Sagheer Ahmad	
Discipline	Prof. Dr. Mumtaz Ahmad Kamal	
Network Administration & Research Center	Prof. Umar Farooq	
Affiliation Committee	Prof. Shaukat Ali Khan	
Health Clinic		
Senior Medical Officer	Dr. Ali Akhtar	
Medical Officer	Dr. Shaheen Sughra	
	C C	
Library		
Deputy Librarian	Syed Mahmood Ali Zaidi	
Deputy Librarian (Evening)	Mr. Muhammad Anwar	
Director Digital Library	Mr. Shahbaz Pervez Chattha	
Sports		
Assistant Director Physical Education	Mr. Muhammad Akmal Hussain	
Transport		
Transport Officer	Engr. Muhammad Yaqub	
Estate Office		
Director Arboriculture & Land Management	Engr. Nabi Ahmad	
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	Engr. M. Awais Tanveer	
Resident Tutor 1 - Quaid-e-Azam (Q) Hall	Engr. Obaidullah	
Resident Tutor 2 - Quaid-e-Azam (Q) Hall	Engr. Muhammad Ali Nasir	
Resident Tutor 1 Omar (O) Hall	Engr. Ayub Elahi	
Resident Tutor 2 Usman (U) Hall	Engr. Ahsan Ali	

A D M I N I S T R A T I O N

Audit Resident Auditor	Mr. Junaid Hameed Haq			
Accounts				
Assistant Registrar Assistant Registrar (Audit Cell)	Mr. Muhammad Azam Khan Mr. Arshad Hameed Hashmi			
Dues/ Scholarship Section				
Assistant Registrar	S. M. Raza Kazmi			
Examinations Branch				
Deputy Controller	Maj.(R) Abrar Ahmad			
Establishment				
Deputy Registrar	Mr. Muhammad Yaqub Assy			
Assistant Registrar	Mr. Muhammad Ilyas Khan			
Academic & Regulation				
Assistant Registrar	Mr. Ali Hussain Naqvi			
Network Administration & Research Center				
Director Networks	Mr. Farhan Ahmed Nadeem			
Senior Network Engineer	Mr. Shahbaz Pervez Chattha			
System Administrator	Mr. Zeeshan Iqbal			
Database Developer				
·				
Vice-Chancellor's Office	Mr. Mahammad Shafi			
Secretary to vice Chancellor	Mir. Munammad Shan			
Directors				
Advanced Studies Research & Technological Development	Prof. Ahmad Khalil Khan			
Undergraduate Studies Student Affairs	Prot. Dr. Mumtaz Ahmad Kamal Engr. Tahir Nadaom Malik			
Information Technology Centre				
Project Director (B&W)	Maj. (R) Tariq Mahmood			
Telephone Exchange	Engr. Muhammad Iram Baig			
Digital Library	Mr. Shahbaz Pervez Chattha			

IMPORTANT TELEPHONE NUMBERS

Official Web Site: http://www.uettaxila.edu.pk						
Trunk Numbers: 9047 (RWP/IBD PRI po	ort #) 400,500,600 (ope	erator 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:						
	Intercom Ext. (ddd)	E-mail Address (where available)				
Vice-Chancellor	401	vc@uettaxila.edu.pk				
Secretary to the Vice-Chancellor	403, 404	muhammadshafi@uettaxila.edu.pk				
DEANS OF FACULTIES						
Electronics & Electrical Engineering	533	muhammadamin@uettaxila.edu.pk				
Telecom. & Computer Engineering	566	drzafrullah@uettaxila.edu.pk				
Civil & Environmental Engineering	633	shaukat@uettaxila.edu.pk				
Mechanical & Aeronautical Engineering	666	sahir@uettaxila.edu.pk				
CHAIRMEN OF ACADEMIC DEPARTMENTS						
Electrical Engineering	535	umarfarooq @uettaxila.edu.pk				
Software/Computer Engineering	569	attasolangi@uettaxila.edu.pk				
Civil Engineering	635	kamal@uettaxila.edu.pk				
Mechanical Engineering	668	anwarkhan@uettaxila.edu.pk				
OTHER ESTABLISHMENTS						
Registrar	405	registrar@uettaxila.edu.pk				
Deputy Registrar (Establishment)	407	yaqub@uettaxila.edu.pk				
Assistant Registrar (Establishment)	408	ilyas@uettaxila.edu.pk				
Establishment Branch	409					
Assistant Registrar (Acad. & Regulation)	410					
Admissions Office (Under Graduate)	412,465	shahbaz@uettaxila.edu.pk				
Treasurer	413	treasurer@uettaxila.edu.pk				
Assistant Registrar (Accounts)	416					
Assistant Registrar (Audit Cell)	425					
Accounts Branch	417					
Assistant Registrar (Dues & Scholarship)	421	mazam@uettaxila.edu.pk				
Student Section	422					
Resident Auditor	423					
Controller of Examinations	428	exams@uettaxila.edu.pk				
Deputy Controller	430	<u>abrarahmad</u> @uet <mark>t</mark> axila.edu.pk				
Examination Branch	432, 433					
Project Director (Building & Works)	434	pd@uettaxila.edu.pk				
Executive Engineer	436	nisar@uettaxila.edu.pk				
Assistant Engineer	437	tahir a li@uettaxila.edu.pk				
Director Advance Studies	446	protkhalil@uettaxila.edu.pk				
University Library	452	shahbaz@uettaxila.edu.pk				
University Health Clinic	461	ali@uettaxila.edu.pk				
Network Centre	468	narc@uettaxila.edu.pk				
Iransport Office	470					
Directorate Students Affairs	472	tahirmalik@uettaxila.edu.pk				
Sports Office	473					
Post Unice	4/4					
Habib Bank Ltd.	475					
Senior Warden	428	exams@uettaxila.edu.pk				
Quaid-e-Azam Hall	480					
	487					
Umar Hall	488					

UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA - UNDERGRADUATE PROSPECTUS 2006 05

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, swhich, 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 not 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 accommodating.
- You shall decide matters of common professional interest by mutual consultation.

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UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

The **University**

















The **University**



Prof. Dr. Habibullah Jamal Vice Chancellor

THE UNIVERSITY

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 "Silk Route".

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 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 and Software 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

FUTURE PROGRAMS

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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
- 5. Faculty of Telecommunication & Information Engineering
 - Department of Telecommunication Engineering



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Faculty of **Civil** and **Environmental Engineering**

















Prof. Shaukat Ali Khan Dean



Prof. Dr. Mumtaz Ahmed Kamal Chairman

Faculty of **Civil** and **Environmental Engineering**



1. FACULTY OF CIVIL AND ENVIRONMENTAL ENGINEERING

Dean

Prof. Shaukat Ali Khan

DEPARTMENT OF CIVIL ENGINEERING

Chairman

Prof. Dr. Mumtaz Ahmed Kamal

Professors

- 1. Saeed Ahmad, PhD (UK)
- 2. Shaukat Ali Khan, MSc Engg (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. Liaqat Ali Qureshi, MSc Engg (Taxila)

Associate Professors

8. Ashfaq Ahmad Tahir, MSc Engg (Taxila)

Assistant Professors

- 9. Usman Ghani, (Gold Medallist), MSc Engg (Taxila)
- 10. Kamran Muzaffar Khan, MSc Engg (Taxila)
- 11. Muhammad Yaqub, MSc Engg (Taxila)

Teaching / Research Associates

- 12. Ayub Elahi, MSc Engg. (Taxila)
- 13. Naveed Ahmad, MSc Engg. (Taxila)
- 14. Faisal Shabbir, MSc Engg. (Taxila)
- 15. Muhammad Ali Shamim, MSc Engg. (Taxila)
- 16. Naeem Ejaz, M.Sc. Engg. (Lahore)
- 17. Zafar Naushad, BSc Engg (Taxila)
- 18. Jawad Hussain, BSc Engg (Taxila)
- 19. Faheem Butt, BSc Engg (Lahore)
- 20. Usman Ali Naeem, BSc Engg (Taxila)
- 21. Naheed Akhtar, BSc Engg (Taxila)
- 22. **Qazi Umar Farooq**, BSc Engg (Hons) (Taxila)

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 22, nearly 70% of whom contribute to postgraduate teaching and are involved in PhD research work. Approximately 400 undergraduate and 75 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.





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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 courses 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:

- Soil Mechanics & Foundation Engineering
- Concrete Technology
- Strength of Materials
- Transportation Engineering
- Hydraulics/Fluid Mechanics
- Theory of Structures/Engineering Mechanics
- Surveying
- Public Health Engineering
- Computer

Transportation and Structural Engineering Laboratories have been upgraded through funds provided by Higher Education Commission.

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 has been provided to facilitate high tech 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 the 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:



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- 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 trained to work independently for solving complex real world problems.





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UNIVERSITY **ENGINEERING** and **TECHNOLOGY** TAXILA

Faculty of **Electronics** and Electrical **Engineering**





















Prof. Muhammad Amin Dean



Prof. Umar Farooq Chairman

Faculty of Electronics and Electrical Engineering



2. FACULTY OF ELECTRONICS AND ELECTRICAL ENGINEERING

Dean

Prof. Muhammad Amin

DEPARTMENT OF ELECTRICAL ENGINEERING

Chairman

Prof. Umar Farooq

Professors

- 1. Habibullah Jamal, PhD (Toronto)
- 2. Muhammad Amin, MSc Engg (UK)
- 3. Umar Farooq, Msc Engg (Japan)
- 4. Muhammad Zafrullah, (Gold Medallist) Phd (Taxila)
- 5. Ahmad Khalil Khan, MS Engg (USA)
- 6. Mohammad Ahmad Choudhry, PhD (USA)
- 7. Muhammad Javed Mirza, Phd (USA)
- 8. Tahir Nadeem Malik, MSc Engg (Lahore)
- 9. Aftab Ahmad, MSc Engg (Lahore)
- 10. Muhammad Iram Baig, MSc Engg (Lahore)

Assistant Professors

- 11. Tahir Mahmood, MSc Engg (Lahore),
- 12. Ilyas Ahmad, MSc Engg (Taxila)
- 13. Gulistan Raja, MS Engg (Japan)
- 14. Inamul Hassan Sheikh, MSc Engg (Taxila)
- 15. Aamir Hanif, MSc Engg (Taxila)
- 16. Muhammad Obaidullah, MSc Engg (Taxila)
- 17. Shabbir Majeed Chaudhry, MSc Engg (Taxila)

Teaching/Research Associates

- 18. Ahsan Ali, MSc Engg (Taxila)
- 19. Hafiz Muhammad Irfan, BSc Engg (Taxila)
- 20. Fawad Nawaz, BSc Engg (Taxila)
- 21. Shahid Hassan, BSc Engg (Taxila)
- 22. Sarmad Sohaib, Bsc Engg (GIKI) on higher studies abroad
- 23. M. Rameez Asif, Bsc Engg (Taxila) on higher studies abroad

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 abilities in the students for the application of the necessary mathematical tools, scientific basics and fundamental knowledge of Electrical Engineering. The students are provided with an educational foundation that prepares them for leadership roles along diverse carrier paths in large companies concerned 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 500 undergraduate, 143 M.Sc. and 25 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. Detailed information about Electronic Engineering in Chakwal can be seen from relevant section in the prospectus.

COURSES OF STUDY

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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 electromagnetics, 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 has been offering courses for the degrees leading to master of science in electrical engineering with specialization in:

- Electrical Power Engineering
- Electronics Engineering
- Control Engineering
- Computer 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.

Nechan



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Faculty of Mechanical and Aeronautical Engineering

















Prof. Mukhtar Hussain Sahir Dean



Prof. Muhammad Anwar Khan Chairman

Faculty of Mechanical and Aeronautical Engineering



3. FACULTY OF MECHANICAL AND AERONAUTICAL ENGINEERING

Dean

Prof. Mukhtar Hussain Sahir

DEPARTMENT OF MECHANICAL ENGINEERING

Chairman

Prof. Muhammad Anwar Khan

Professors

- 1. Muhammad Anwar Khan, MSc Engg (UK)
- 2. Rafi Javed (on leave abroad), MSc Engg USA)
- 3. Mukhtar Hussain Sahir, MSc Engg (Lahore)
- 4. Sagheer Ahmad, MSc Engg (Lahore)
- 5. Shahab Khushnood, (Gold Medallist), Ph.D. (NUST)
- 6. M. Shahid Khalil, PhD (UK)
- 7. Khawaja Sajid Bashir, MSc Engg (Lahore)

Professors (Foreign Faculty)

- 8. M. M. I. Hammouda, PhD (UK)
- 9. Ali Roheim el Ghalban, PhD (Germany)

Associate Professor

10. Nabi Ahmad, MSc Engg (Taxila)

Assistant Professors

- 11. Nasir Ahmad Mian, BSc Engg (Lahore)
- 12. Khalid Masood Khan, MSc Engg (UK)
- 13. Mirza Jahanzeb, M.Sc. Engg. (Taxila)
- 14. Riffat Asim Pasha, M.Sc. 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)

Teaching Research Associate

- 19. Muzaffar Ali, BSc Engg (Taxila)
- 20. Tanzeel-ur-Rashid, MSc Engg (Lahore)
- 21. Muhammad Ammar Mehdi, MSc Engg. (Lahore)
- 22. Nazir Ahmad Anjum, BSc Engg (Hons) (Taxila)
- 23. Hafiz Zafar Sharif, BSc Engg (Nawabshah)

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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 20 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



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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 EngineeringThe 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

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

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



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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



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(CIM) and Rapid Prototyping System, which is not only being used for teaching and research but also provides services to the neighbor-ing industries.

Telecor



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Faculty of Telecommunication and Information Engineering

















Prof. Dr. Muhammad Zafrullah Dean

Faculty of Telecommunication and Information Engineering





Prof. Dr. Muid ur Rehman Mufti Chairman (Computer Engineering)



Prof. Dr. Attaullah Sollangi Chairman (Software Engineering)

4. FACULTY OF TELECOMMUNICATION & INFORMATION ENGINEERING

Dean

Prof. Dr. Muhammad Zafrullah

Visiting Faculty

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

This faculty consists of two degree awarding department and two other major centres.

- 1. Computer Engineering
- 2. Software Engineering
- 3. Network Administration & Research Centre
- 4. Centre of Excellence in ASIC Design

DEPARTMENT OF COMPUTER ENGINEERING

Chairman

Prof. Dr. Muid ur Rehman Mufti

Professors

- 1. **Muhammad Zafrullah**, (Gold Medallist), PhD (Taxila)
- 2. Muid ur Rehman Mufti, PhD (USA)

Assistant Professors

- 3. Hafiz Adnan Habib, MSc Engg (Taxila)
- 4. **Yasar Amin**, MSc Engg (Sweden)
- 5. Adeel Akram, MSc Engg (NUST)

Teaching/ Research Associates

- 6. **Muhammad Rizwan**, BSc Engg (Taxila)
- 7. Malik Muhammad Asim, BSc Engg (Hons) (Taxila)
- 8. Syed Sohail Ahmad, BSc Engg (Hons) (Taxila)
- 9. **M. Haroon Yousaf**, BSc Engg (Hons) (Taxila)
- 10. Fawad Hussain, BSc Engg (Hons) (Taxila)
- 11. **Syed Muhammad Anwar**, BSc Engg (Hons) (Taxila) on higher studies abroad.
- 12. **Muhammad Majid**, BSc Engg (Hons) (Taxila) on higher studies abroad.

Department of Computer Engineering,

established for the last five years, is concerned with the theory, design, development and applications of computer systems and information processing techniques. The objective of the program is to provide students with a strong theoretical and practical background in computer hardware and software, along with the engineering analysis, design and implementation skills necessary to work between the two. The program involves study of complete computer system from design of its circuits to its operating system and the algorithms that run on it.

By successfully completing the Computer Engineering degree, the graduates will gain a broad range of skills in the area of computer systems with strong analytical and critical thinking abilities. These graduates are ready to embark upon an exciting career in a diverse



range of information and computer technology-rich companies and industries.

The department offers 4 years degree program of B.Sc. in Computer Engineering. At present, more than 200 students are enrolled in the program.

Courses of Study

The Computer Engineering program involves the integrated study of digital design, data communications, computer organization and architecture, and systems software. This is accomplished within an engineering context that encompasses aspects of management and design, with a study of relevant technologies. The computerengineering curriculum provides a proper balance of computer systems, hardware and software as well as theory and applications. With the rapid developments in the computer and information technologies, the computer engineering curriculum is revised and improved on regular basis. The instructional and research facilities are continuously upgraded so that the students have a solid background within the field as well as in-depth knowledge and hands-on experience in relevant areas. By properly choosing elective courses, students may specialize in one or more of the following areas: computer systems, computer communications, networking, computer-vision, pattern recognition, expert systems and multi-media systems.

Laboratories

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. Elementary Computer Laboratory
- 2. Software Engineering Laboratory
FACULTY OF TELECOM & INFORMATION ENGINEERING

- 3. Electronic System Laboratory
- 4. Video and Image Processing Laboratory
- 5. Computer Communication Laboratory
- 6. Digital System Laboratory
- 7. Information Technology Laboratory

Postgraduate Studies & Research

In order to satisfy the increasing demand for advanced technological education, the department offers MSc degree courses in Computer Engineering. The MSc and PhD curriculum is designed to develop individuals with outstanding technical and managerial skills, expertise in decision-making and capacity for sustained hard work. It introduces engineers to modern theories and techniques while taking into account the needs and requirements of the industry in Pakistan.

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

Degree of MSc Computer Engineering is awarded in the following specializations:

- 1) Computer Engineering
- 2) Software Engineering







2. DEPARTMENT OF SOFTWARE ENGINEERING

Chairman

Prof. Dr. Attaullah Sollangi

Professors:

1. **Dr. Attaullah Sollangi**, PhD (USA)

- **Assistant Professors**
- 2. **Tabassam Nawaz**, MSc Engg. (Taxila)
- 3. Samana Zehra, BSc Engg (NUST)

Teaching/ Research Associates

- 4. Shahid Iqbal Lone, MSc Computer Science (Gomal)
- 5. Shahzad Ahmad Bhatti, BSc Engg (Hons) (Taxila)
- 6. **Muhammad Siraj Rathore**, MS Comp Engg (Taxila)
- 7. Syed Abdullah Nauroze, BSc Engg (Hons) (Taxila) on higher studies abroad.
- 8. **Syeda Samana Naqvi**, BSc Engg (Taxila) on higher studies abroad.
- 9. Ali Ameer Gondal, BSc (Bahria University) on higher studies abroad.
- 10. Khalid Bashir Bajwa, Ms Computer Engg (Taxila) on higher studies abroad.





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Department of Software Engineering

The Department of Software Engineering has been established for four years. The software engineering program involves learning of systematic and quantifiable approach to the design, development, operation and maintenance of software systems from small to higher level of complexities. The program covers not only the technical aspects of design and development of software systems, but also their management and teamwork skills.

The department offers 4 years degree program leading to B.Sc. in Software Engineering. At present, more than 200 students are enrolled in the program.

Courses of Study

The Software Engineering courses are built on a strong foundation of mathematical, logical and computing sciences. The introductory year consists of basic subjects in Computer Science, Mathematics, and basic Electrical Engineering. In subsequent years, the emphasis is on deeper understanding of algorithm development, logic design, programming techniques, computer architecture and languages, computer communication networks and software engineering. Both theoretical and practical aspects are covered during the course of studies. Students are required to undertake small projects to learn practically and to enable them to work individually and in groups.

On successful completion of the Software Engineering degree, graduates will possess a broad range of skills and practices in areas of software analysis, design, development and management. Graduates from this programme find lucrative employment in highly demanding software engineering posts in specialist roles as application developers, systems analysts, network designers and management consultants.

LABORATORIES

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. Elementary Computer Laboratory
- 2. Software Engineering Laboratory
- 3. Electronic System Laboratory
- 4. Video and Image Processing Laboratory
- 5. Computer Communication Laboratory
- 6. Digital System Laboratory
- 7. Information Technology Laboratory



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3. NETWORK ADMINISTRATION AND RESEARCH CENTER (NARC)

Director Networks

Farhan Ahmed Nadeem, BSc Electrical Engg (Taxila)

Senior Network Engineer

Shahbaz Pervez Chattha, MSc Computer Science (UAF)

System Administrator Zeshan Iqbal, MCS (BIIT)

Web Manager Syed Muhammad Adnan, MSc Statistics (Pb)

Database Developer Muhammad Huzaifa, MCS (BIIT)



Mission

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 Research Facilities:

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:

- Ad hoc 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

Collaborations

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.

4. CENTER OF EXCELLENCE FOR ASIC DESIGN AND DSP

The "Center of Excellence for ASIC Design and Digital Signal Processing" was established in December 2005 through a development project funded by HEC (Higher Education Commission). This Centre is equipped with the state-of-the-art facilities, software

tools of worth Pak Rs. 400 million and hardware of worth Pak Rs. 30 million. The center provides expertise in the areas of chip designing, simulation, and PCB design. Test and measurement equipments for advanced testing and verifications are also available. With a mission to introduce newest technologies in the field of ASIC (Application Specific Integrated Circuit), FPGA (Field Programmable Gate Arrays), and DSP, the center is providing design, teaching and research facilities to Ph.D, M.Sc. and undergraduate students. More than a dozen research papers have been published in International Conferences based on the work done in this Centre. Seven PhD scholars and more than ten M.Sc. students are registered who are working in this area/Centre. The centre is equipped with the following:



Hardware:

- 35 Computer Systems: (Dell Optiplex GX280n)
- 06 Sun workstations: (2500 and 1500)
- Xeon Server Machine
- FPGA Boards: (Spartan: XSA100, XSA200, XSA3S100, XSB300E)
- High End FPGA Boards: (Virtex-II Pro ML300, Xilinx Inc)
- Logic Analyzers: (Agilent 16900A, Tektronix TLA 721)
- Oscilloscopes: (Tektronix TDS2022 200 MHz, Agilent 54641D 2+16 CH 350 MHz and 54830D 2+16 CH 600 MHz)
- Data Pattern Generators: (Agilent AFG 33250A, Tektronix DTG 5274)

 DSP Kits: (TMS320C6713 DSP Starter Kit, SignalMaster TMS320C6701 Stand-alone Format/Virtex-II)

Software:

- Cadence EDA Tools, Front End and Backend: (PCB Design Expert, Cadence NC Verilog simulator, Nano Encounter, Virtuoso Schematic Composer etc.)
- Synopsys Digital Front End Tools: (HDL Compiler Verilog, FPGA Compiler II, Design Compiler, NanoSim etc.)
- Xilinx ISE Synthesis Tools: (Xilinx ISE 6.1i, 7.1i, 8.1i and EDK 7.1i)
- Xilinx Embeded Development kit
- Altera Quartus II
- Texas Instrument Code Composer Studio used for the programming of DSP kits
- Mentor Graphics Simulation Tools for FPGA: (ModelSim 5.4, 5.7, 6.0a, 6.1f)





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UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Teaching Staff for Basic Sciences & Humanities

















Prof. Dr. Mumtaz Ahmed Kamal

Teaching Staff for Basic Sciences & Humanities



5. TEACHING STAFF FOR BASIC SCIENCES AND HUMANITIES

Professor

1. **Muhammad Akram Javaid**, PhD Mathematics (UK)

Associate Professors

- 2. **Abdur Rauf**, (Gold Medallist), MSc Mathematics(Turkey)
- 3. Hafiz Muhammad Yasin Butt, MPhil Islamic Studies (AIOU)

Assistant Professors

- 4. **Tariq Asghar**, MSc Mathematics(Pb)
- 5. Muhammad Saeed Akhtar, M Phil Mathematics(QAU)

The teachers of this supporting setup are placed under the administrative control of Chairman of Engineering Department. These teachers along with visiting teachers assist in teaching Mathematics, Islamic studies and Pak. Studies. Mathematics is an essential prerequisite and pivotal element for various fields of engineering and other sciences. In fact it plays a keyrole for the comprehension of any subject of engineering and physical sciences. A practical engineer needs an adequate knowledge of modern mathematics to successfully cope with the complex real world problems. Therefore, all the degree programs offered by different engineering departments of the University have courses in applied mathematics, statistics. numerical analysis and computer sciences. Appropriate courses in Islamic Studies have also been constituted in the department to be taught to the

Muslim students of various engineering faculties. The



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purpose is to enlighten the soul and mind of the students and enable them to get appraisal of tenets of Islam so that they may perform their duties with integrity and diligence when the future responsibilities of serving the nation will be bestowed upon them.

In 1982 the Government of Pakistan also emphasized the need of subject of Pakistan Studies. The main purpose of this subject is to make the students to be acquainted with ideology of Pakistan. The Non-Muslims students are offered courses in the subject of Ethics and Pakistan Studies.

RESEARCH EXTENSION AND ADVISORY SERVICES

The faculty members are actively engaged in research work and have produced a number of research publications, which have been published in scientific journals of repute and presented in national and international conferences and seminars.

The current research fields of interest in the subject of mathematics are: mathematics in manufacturing, algebraic optimization, numerical analysis, integral equations, linear programming, queuing theory and quantum mechanics.

The research in the subject of Islamic Studies is being carried out in the field of "Seerat-un-Nabi and Political System of Islam".



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UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Services & Common Facilities

















SERVICES AND COMMON FACILITIES

6-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.

6-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 with in the UET Taxila intranet for students and researcher of UET Taxila.

SERVICES & COMMON FACILITIES

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



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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





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http://www.liebertonline.com **AMERICANSOCIETYOF MICROBOLOGY** http://journals.asm.org/

7 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 postgraduate 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.

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 Postgraduate 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



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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



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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 departments and function as liaison office between the academic departments for the smooth conduct of courses. It also monitors the progress of teaching and ensures the in time completion of courses by respective department.

The Directorate also takes care of the following matters with the assistance of Students Section.

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

HEC-Japanese Need Based Scholarships

HEC-Japanese Need Based scholarship program aims at providing equal opportunities to talented students who are unable to enter higher education due to financial constraints. All the students who will secure admission in Entry 2006 at UET Taxila will have equal opportunity to compete for this scholarship according to their financial need.

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 interfaculty and inter-hostel tournaments are held to

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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.05.000 Million.

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

13 Hostels

The University has provisions for hostel accommodation at the Campus. The halls of residence are named as Quaid-e-Azam Hall, Iqbal Hall, Omer Hall and Usman Hall. The management of the halls is in the hands of the University teachers. Each hall is looked after by a Warden and Resident Tutors, being teachers. The students themselves manage many aspects of the life in halls. The halls are provided with common rooms, canteens, mosques and other such places of common utility. 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.

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



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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



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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.

Rules



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Rules and Regulations

















Prof. Aziz ur Rehman Registrar



Mr. Mahmood Akhtar Controller of Examinations



Rules and Regulations

19 Rules and Regulations

Regulations Relating to Term 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 Term System of Teaching and Examinations for Bachelor Degree Programs, 2002".
- 2. These have come into force with retrospective effect from undergraduate degree programs Entry-2001 of the University.

B. Definitions:

- "Academic Council" means Academic Council of the University.
- "Academic Year" means a year normally from 1st October to 30th September. Academic year shall consist of two Terms.
- "Autumn Term Examination" means the term examinations held in the first part of the academic year, for the terms as may be declared.
- "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 a Term examination.
- "Casual Student" means a student who is not on the rolls of the University but is otherwise eligible 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.
- "Credit Hour" means one hour of theory lecture or two hours of practical work.
- "Dean" means the Dean of the concerned Faculty.
- "Department" means an academic department of the University.
- "External/Neutral Examiner" means a person holding suitable qualifications in the relevant discipline who is neither a teacher in the University nor has taught the subject to the class/section during the Term for which the examination is being held.
- "Faculty" means the concerned faculty of the University.
- "Internal Examiner" normally means the teacher/person appointed by the Competent Authority who has been teaching the subject to the class/section during the Term for which the examination is being conducted.
- "Neutral Examiner" means a teacher of the University holding suitable qualifications in the relevant discipline who has not taught the subject to the class/section during the Term for which the examination is being held.
- "Outstanding Paper" means a part-I or part-II paper, which a student fails to pass in a term examination and is allowed to clear in a subsequent examination.
- "Spring Term Examination" means the term examinations held in the second part of the academic year, for the terms as may be declared.
- "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.

- "Subject" means a course of studies as prescribed in the detailed Syllabi, whose successful completion shall be the requirement of the Degree. It shall consist of Part-I (theory) or Part-II (sessional work, practical and viva voce) or both. Each part shall be considered a separate paper for the purpose of examination.
- "Syndicate" means the Syndicate of the University.
- "Term" means a declared duration covering sixteen weeks of teaching excluding examinations. There shall be two Terms in an academic year.
- "Term Examination" means the examination to be held at the end of the Term on such dates as the Vice-Chancellor may determine.
- "University" means the University of Engineering and Technology, Taxila.
- "Vice-Chancellor" means the Vice-Chancellor of the University.

C. Explanations:

In these regulations: -

- a) The pronoun "he" and its derivatives are used for both male and female persons.
- b) Depending upon the context, the words imparting the singular number include the plural number as well, and vice-versa.
- c) When the "External/Neutral Examiner" is mentioned it also implies "Neutral Examiner"

D. Engineering Disciplines:

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

1) Civil Engineering

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- 2) Computer Engineering
- 3) Electrical Engineering
- 4) Mechanical Engineering
- 5) Software Engineering
- 6) Electronics Engineering (At Chakwal Campus)
- 7) Mechatronics Engineering (At Chakwal Campus)
- 8) Any other discipline as approved by the University Authorities

Part-I GENERAL

- (1). The minimum duration of the degree program shall not be less than four academic years.
- (2). 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.
- (3). The courses of study, the number of marks allocated to each paper and the detailed syllabi shall be according to the proposals made by the Board of Undergraduate Studies concerned and approved by the Syndicate on the recommendations of the Board of Faculty concerned and the Academic Council.

Provided that the total marks allocated for all the courses offered in each discipline in any academic year shall be the same.

(4). Notwithstanding any thing to the contrary contained in these regulations, no candidate shall be admitted to an examination after the expiry of seven calendar years. This period shall be counted from the date of his registration to the first year 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.

- (5). If a candidate does not pass in a minimum of 50% papers (including at least four theory papers) on the basis of combined result of the 1st Term and 2nd term papers, after the examination at the end of 3rd term, his name shall be removed from the rolls of the University.
- (6). A student, who has appeared in the Final Term Examination and has still to clear a certain number of papers of lower terms, will not be considered as a regular student. He may, however, reappear as a casual student in the papers in which he has failed, if otherwise eligible.

Part-II. REGISTRATION

- (7). The registration of the students for each Term shall be made by the Admission Registration & Replacement Office of the University.
 - a) The Director Undergraduate Studies, in consultation with the Deans of Faculties. will notify the schedule of registration for each Term, other than the first Term, soon after the completion of previous Term examination. The application forms shall be available from the office of the Chairman of the concerned department. The students shall submit (in duplicate) the forms duly filled up to the Chairman of the department. After necessary verifications, the department will retain one copy of registration form for its record and the other copy will be sent to the Admission Registration & Replacement Office for the notification of the registered students.
 - b) Registration and promotion to the third Term class shall be provisional, subject to confirmation on the basis of the combined

result of first and second Terms regular examinations.

- c) If a student other than the casual student fails to get himself registered, his name shall be deemed to have been struck off the University rolls and he shall not be allowed to take any subsequent examination.
- d) If a student misses his registration for cogent reasons, and applies for it within 15 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 on the recommendation of the Chairman of the department. He will, however, be charged the readmission fee as prescribed under the rules. He shall not claim any other relaxation in the rules governing teaching and examinations.

Part-III. ATTENDANCE REQUIREMENTS

- (8). No candidate shall be admitted to an examination unless the following conditions are fulfilled: -
 - a) He has been on the rolls of the University during the Term for which the examination is held, unless allowed by these regulations to take examination in outstanding papers.
 - 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 during the Term for which the examination is held.

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- (i) The Dean of the Faculty concerned may, for valid reasons, condone a deficiency to the extent of 10% of the total attendance.
- (ii) In very special cases, the Vice-Chancellor may condone attendance further.
- (9). The Chairman shall prepare the attendance record of the students and send the list to the Dean of Faculty within 10 days after the completion of the teaching session. The Dean shall notify the list of detained students on account of shortage of attendance. The Chairman shall not forward the examination form of a student whose name appears in the list of detained students.
- (10) (a) If a student of the first term class does not fulfill the condition of attendance, he may seek readmission, with the permission of the concerned Dean of Faculty, in the next following first term class but only for once. He shall repeat all the subjects.
 - (b) If a student of any class other than first term does not fulfill the condition of attendance, he shall be detained in the same term. He shall get himself enrolled in the next following class according to the registration schedule of that class or within 10 days of the notification by the concerned Dean regarding his shortage of attendance, whichever is earlier. He shall repeat all the subjects.

Part-IV. CONDUCT OF EXAMINATION

- (11). There shall be an Examination of all the papers of the degree course at the end of each Term and the students with outstanding papers will have the opportunity to re-appear.
- (12). **Place of Examinations**

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The examinations shall be arranged/ conducted by the Controller of Examinations at the respective campus of the University.

(13). Date Sheet

The Controller of Examinations shall issue the date sheet for each examination.

(14). **Application for Examination**

A candidate who wishes to seek admission to an examination shall submit to the Controller of Examinations through the Chairman and Dean, an application on the prescribed form together with the prescribed examination fee.

(15). **Examination Fees**

- a) If application for admission to an examination is submitted not later than fifteen days before the commencement of the examination, the examination fee, i.e. Rs.600/= shall be charged for each term examination, irrespective of the number of papers in which a candidate intends to appear.
- b) If the application is submitted later than fifteen days before the commencement of the examination but not later than seven days before the commencement date, a late fee of Rs.150.00 shall be charged in addition to the normal fee.
- c) If the application is submitted later than seven days before the commencement of the examination but not later than four days before the commencement date, double the normal examination fee shall be charged.
- d) If the application is submitted later than four days before the commencement of

the examination, the Dean of Faculty concerned may permit, on the basis of cogent reasons, a candidate to appear in the examination on payment of an urgent fee of Rs.1600/-.

e) If the application is submitted on or after the commencement of the examination, the Vice-Chancellor may permit on special grounds, a candidate to appear only in the remaining scheduled papers of such examination on payment of a penal fee of Rs.2000/-.

(16). **Appointment of Examiners**

The Internal and External/Neutral Examiners for a paper shall be appointed by the Vice-Chancellor on the recommendations of the Board of Undergraduate Studies which shall recommend internal examiner and a panel of External/Neutral examiners to the Controller of Examinations.

(17). **Commencement of Examination**

The examination shall commence 20 days after the termination of classes or completion of courses.

(18). **Paper Setting**

The Internal Examiner for the theory paper shall set the specimen question paper and send the same along with a copy of detailed syllabus to the External/Neutral Examiner. The External/Neutral Examiner shall set the final question paper in duplicate (one office copy and one press copy) on the basis of the standard laid down by the Internal Examiner, including not more than 50% questions from the specimen question paper.

(19). Marking of Scripts

- a) The External/Neutral Examiner shall mark the scripts and prepare the award list and counterfoil. He shall send the award list along with the marked scripts to the Internal Examiner and the counterfoil direct to the Controller of Examinations within the specified time limit.
- b) The Internal Examiner shall then evaluate the scripts and send them along with the award list, to the Controller of Examinations under sealed cover within the specified time limit.
- c) Both the examiners 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.
- d) If the Internal Examiner alters the award of any candidate and the alteration does not involve a difference with the award of the External/Neutral examiner exceeding 5% of the total marks of the paper, then the internal examiner should not refer the case to the External/Neutral examiner and his award shall be final. A fraction of half or more shall be counted as one mark and less than half ignored.
- e) In case the alteration in award of a candidate by the Internal Examiner exceeds 5% of the total marks of the paper, the Internal Examiner shall prepare a separate award list for that candidate and send the award list and the script of the candidate to the External/Neutral Examiner. If the External/Neutral

Examiner agrees with the altered award he shall send the award list and the script direct to the Controller of Examinations. If the Internal and the External/Neutral Examiners do not agree on the marks to be awarded to the candidate, then the Controller of Examinations shall refer the case to the Vice-Chancellor, who may either accept the award of the External/Neutral Examiner or appoint a third Examiner whose award shall be final.

- f) The time limit for marking the scripts by the External/Neutral Examiner shall be fifteen days. The Internal Examiner shall not take more than seven days. An automatic deduction shall be made from the remuneration of Examiners for delay in marking the scripts at the rates prescribed by the University.
- g) If an Examiner can not 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.

(20). Sessional Work

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- a) Sessional work may consist of laboratory, design, quiz and any other assignment as determined by the teacher concerned and shall carry 50% of the total marks allotted to Part-II of a subject and the remaining 50% of the marks shall be for practical and viva voce examination.
- b) Each assignment of sessional work undertaken during the Term shall be

evaluated by the concerned teacher and the marks shall be notified to the candidate immediately thereafter.

- c) The sessional marks shall be submitted, separately, to the Controller of Examinations by the teacher concerned through the Chairman at least 10 days before the start of the examination.
- d) If a candidate has failed in a Part-II paper, obtaining less than 50% of the marks allocated to its sessional work, he may be permitted by the Chairman to revise the sessional work. The marks awarded for the revised sessional work shall not exceed 50% of the total marks allocated to the sessional work. Provided that if the candidate avails one or more chances allowed under these regulations to revise his sessional work, then the highest award out of his original award and the revised awards shall be considered.
- e) The practical and viva voce examination shall be conducted jointly by the Internal and External/Neutral Examiners in respective laboratory. The award list shall be submitted under sealed cover by the Internal Examiner to the Controller of Examinations immediately after the examination. In case of disagreement in respect of the award of marks between the Internal and External/Neutral Examiners, the Chairman of the department shall act as an arbitrator whose decision shall be final. In case the Chairman is himself an examiner, the Dean of his Faculty shall act as arbitrator.

(21). **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.

(22). Minimum Marks to Pass a Paper

Part-I (Theory) and Part-II (Sessional Work, Practical and Viva-voce) of a subject shall be considered a separate paper for the purpose of examination. In order to pass a paper, a candidate shall have to obtain not less than 40% of total marks in Part-I and not less than 50% of total marks in Part-II.

(23). Moderation

If a student has passed all the papers of his entire bachelors degree program except one, and is failing in the outstanding paper by a margin not exceeding 10% of the maximum marks allotted to it, the Controller of Examinations may declare him to have passed that paper by moderation on the written request of the student, provided that:

- a) There will be no change in the marks secured by the student in that paper;
- b) Towards the award of Merit, Honours etc. such paper shall not be considered to have been passed in first attempt.

(24). As a Whole / in Parts

A candidate who passes an examination in more than one attempt shall be declared to have passed the examination in parts. This fact shall be recorded on his Detailed Marks Certificates, Provisional Certificate and also on his Degree.

(25). **Absence from Examination**

If a student absents himself from any or all papers of an examination for whatsoever reason, he shall be deemed to have failed in those papers.

(26). Notification of Result

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

(27). Re-Checking of Answer Scripts

A candidate shall be allowed to have his answer scripts rechecked by the Controller of Examinations on payment of prescribed fee within 30 days of the declaration of the result. The Dean of the Faculty concerned may condone the delay up to a maximum period of 15 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.

(28). Award of Degree

A candidate shall be admitted to the degree if:

- a) He has passed all the papers of the Degree Program in the relevant discipline; and
- b) 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.

(29). **Determination of Division**

A candidate, who fulfils all the requirements for the degree and secures 60% or more aggregate marks in all the examinations as

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detailed below, shall be placed in First Division. Otherwise he will be placed in Second Division:

- i) 60% weightage will be given to the results of all the examinations of lower classes i.e. 1st year, 2nd year and 3rd year.
- ii) 40% weightage will be given to the results of final year.

(30). 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 obtains an aggregate of 75% or more marks.
- b) He has not failed in any paper of the entire degree program.
- c) He has passed within the minimum duration of the degree program laid down in these Regulations.
- d) He did not pass any examination by Moderation.
- e) He has not been granted exemption in any paper.

(31). Award of Medals

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A candidate who fulfills all the requirements of the degree shall be entitled to the award of a medal for overall best performance in each discipline if he obtains maximum aggregate of marks in combined eight terms examinations, provided that:

- a) He has never failed in any paper of the entire degree program.
- b) He has passed within the minimum duration of the degree program as laid down in these regulations.
- c) He did not pass any examination by moderation
- d) He has not been granted exemption in any paper

e) He secured at least 60% of marks in each term examination.

(32). **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.

(33). **Merit Certificates**

Merit certificates shall be issued to the top 5% of the candidates of a particular session in each discipline on the basis of aggregate marks of the term examinations subject to a minimum of 3 and a maximum of 10 certificates. A fraction shall be counted as 1. Only those candidates shall be eligible for the award of a merit certificate, who pass all the term examinations in first attempt.

(34). Deans List

The names of top three students will be included in the Dean's list of each discipline at the end of each term, according to the following procedure:

After the result of Regular Term Examination is declared and the process of rechecking of answer scripts (where necessary) is completed, the Controller of Examinations shall prepare and communicate to the concerned Dean of Faculty a merit list comprising of 03 top position holders in each discipline separately. The Dean's Office shall prepare the Deans List in accordance with the prescribed Performa.

(35). **Detailed Marks Certificate**

A candidate who appears in a term examination may obtain a Detailed Marks Certificate on payment of prescribed fee.

(36). Withholding of Final Term Result

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

(37). **Certificate Fees**

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

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

(38)Award of Certificate

a)	Detailed Marks Certificate	Rs.150
b)	Degree in Absentia/Degree Before Convocation/ Duplicate Degree	Rs.1000
c)	Provisional Certificate	Rs.500
d)	Rechecking of Answer Book	Rs.300
e)	Any other Certificate	Rs.150
f)	Duplicate Certificate	Double the normal fee
g)	Verification fee of University Degree/Certificates:	
	(i) Degree	Rs.100
	(ii) Detailed Marks Certificate/ Provisional Certificate/ Any other Certificate	Rs.50 Each

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:

- a) Degree will normally be issued within two months of the receipt of the application, and
- b) Any other certificate or duplicate copy 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 within 48 hours.



19. Migration

- **19.1.** 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.
- **19.2.** No student shall be admitted to first year and final year classes by migration.
- **19.3.** No student other than regular student shall be allowed admission by migration.
- **19.4.** Admission by migration shall not be allowed ordinarily after the expiry of three weeks from the commencement of the session.
- **19.5.** 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.
- **19.6.** 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.

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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 Category A-1 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 Student Section, 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.
- **19.7.** 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.
- **19.8.** The student will be required to clear all the university dues before he applies for migration.
- **19.9.** 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.
- **19.10.** The Registrar shall issue No Objection Certificate, which shall be valid only for sixty days.
- 19.11. 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.
- **19.12.** Any changes/ additions/ modifications, if made in the above regulations, will also be applicable.

20. Students Discipline Rules

- 1. These rules shall be called the "University of Engineering and Technology, Taxila (Students General Discipline) Rules, 1998".
- 2. These Rules are in effect from 1998.
- 3. 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.

- 4. 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.
- 5. 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;
- 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.
- 6. 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.

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- 7. 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.
- 8. 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.
- 9. (1)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)
 - (2) The term of office of the members other than ex-officio members shall be two years.
 - (3) The quorum for a meeting of the Committee shall be four.
- 10. 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.
- 11. 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

- 1) uses or takes possession of the University transport unauthorisedly; or
- m) shows immodest/indecent or contra-Islamic behavior with fellow boy/girl student; or
- 12 (1)The penalty or penalties imposed shall be appropriate and proportioned to the nature and gravity of the act.
 - (2) The penalties which may be imposed and the authority or authorities competent to impose each kind of penalty are specified in the table given on next page.



Sr.	Penalty	Authority Competent to
No.		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 Incharge or Tour Incharge/ 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
1)	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.

- 13 (1) 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.
 - (2) 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.
 - (3) 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:

- 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.
- (4) No student shall be rusticated or expelled from the University, unless he has been allowed reasonable chance of replying to the accusation against him.
- (5) 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).

- 14. 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.
- 15 (1) 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.
- (2) 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.
- (3) 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.
- (4) 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.

- (5) 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.
- 16 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.

22 University Hostels

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- 22.1. Limited hostel accommodation is available for male students only. At present hostel accommodation is arranged in Islamabad for female students. A new building of hostel is also under construction in the campus for female students.
 - 22.2. Available hostel accommodation is 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 any political and objectionable activities, shall be ineligible for hostel accommodation.

Provided, if the attendance of a student is short, his hostel allotment shall be cancelled. He may apply for fresh allotment after the next term if his attendance is up to the mark again.

- 22.3. 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.
- 22.4. 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.
- 22.5 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.
- 22.6. 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.
- 22.7. The residents shall not tamper with the room fittings, nor shall they get the doors fitted with internal locks.
- 22.8. 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 or sectarian body of the students.
- 22.9. The residents shall not leave lights or fans ON when the rooms are not in use.
- 22.10 The residents shall not use heaters without payment of approved charges and prior permission of the Senior Warden.
- 22.11 The residents are not allowed to use airconditioners, refrigerators, ovens or similar electrical appliances.
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- 22.12 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 etc.
- 22.13 Guests may visit the residents in the hostel between 9.00 a.m. to 9.00 p.m. The residents shall not receive female guests in their rooms, but may see them in the common room or the place reserved for the purpose.
- 22.14 Guests are not allowed to stay overnight unless it is permitted by the hostel authorities and accommodation is available in the guestroom.
- 22.15 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.
- 22.16 Every part of the hostel shall be open to the hostel authorities for inspection at any time during day or night.
- 22.17 The residents are not allowed to wear immodest dress in the hostel.
- 22.18 The residents shall not keep in the hostel any firearms or other weapons, even if licensed. Violation of this rule shall render a resident liable to expulsion from the University.
- 22.19 A resident shall not indulge in any amusement, which is likely to cause nuisance to others.
- 22.20 Any religious ceremony likely to injure the sentiments of other residents shall not be performed in the hostel.
- 22.21 The residents are not allowed to gamble or to use any intoxicants and narcotics. Violation of this restriction shall render 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.

- 22.22 Students will have to vacate the hostel accommodation within a week of the expiry of the final term regular examination.
- 22.23 The Senior Warden may cancel the allotment of a student who violates the Students Discipline Rules of the University.

23 Procedure for Allotment

- 23.1 A student seeking accommodation in a university hostel shall submit an application to the Senior Warden on the prescribed form.
- 23.2 The types of accommodation presently available in the hostels are;
 - (i) Cubicle (ii) Dormitory
- 23.3 The order of preference for allotment of the accommodation shall be as follows:
 - i) MSc (Full-time students)
 - ii) Final year students
 - iii) Third year students
 - iv) Second year students.
 - v) First year students
- 23.4. Within each of the categories mentioned in sub-rule 22.3 except categories (i) & (v), the order of preference shall be as follows:
 - i) Students who have passed the next below regular examination, taken as a whole
 - ii) Students who have failed in not more than three of the papers of the next below regular examination
 - iii) Others

23.5 **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

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RULES & REGULATIONS

requirements within the minimum prescribed time duration, shall not be allowed to reside in the university hostel.

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

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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.



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Admission Procedure & Categories

















Prof. Dr. Muhammad Zafrullah Chairman Admission Committee



Mr. Shahbaz Pervez Chattha Convener Admission Committee



Admission Procedure & Categories

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)9047465, (051)9047566, (051)9047504 and (051)9047403

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



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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:

House No. 342, St. No. 97, Sector G-9/4, Islamabad.

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

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. 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.

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27.5. Sex

28. Seats Allocation Chart 2006 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	Total
A.1	Punjab (Subsidized)	85	85	85	30	30	315
A.2	Punjab (Non-subsidized)	37	37	37	22	22	155
B .	Sind ¹	1	1	1			3
C .	Baluchistan ¹	1	1	1			3
D.	N.W.F.P. ¹	1	1	1			3
Ε.	A.J.K. and Northern Areas						
	(i) Azad Kashmir	2	1	2			5
	(ii) Kel Area		(OPEN)				1
	(iii) Northern Area	1	1				4
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 ²		(OPEN)				2
M .	Children of University Employees		(Maxim	um five seats	in a discipli	ne)	
N.	Children of Graduate Engineers/						
	Architect <mark>s/ City & Regional Planner</mark> s	1	1	1			3
0.	Children of University Alumni		(OPEN)				1
Q.	Tribal Areas of DG Khan and						
	Rajanpur Districts		(OPEN)				2
T.	Tehsil Taxila	2 seat	s with a max	imum of 1 se	eat in a discip	oline	2

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Attock, Bahawalnagar, Bahawalpur, Bhakkar, Chakwal, D.G. Khan, Jhang, Jhelum, Leiah, Muzaffargarh, Mianwali, Rahim Yar Khan and Rajanpur Districts. 2

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 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 also eligible to apply. Nominations and allocation of disciplines are made by the Department of Education, Government of Sind, Karachi.

29.3. 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 also eligible to apply.

29.4. 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 also eligible to apply.

29.5. 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 also eligible to apply.

29.6. 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 also eligible to apply.

29.7. 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.

29.8. 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 also eligible to apply. Nominations and allocation of disciplines are made by respective Headquarters.

29.9. Category K (FATA)

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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 also eligible to apply.

29.10. 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.

29.11.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 under University of Engineering and Technology, Taxila ordinance 1993.
- 2. Real children of those university employees who have joined U.E.T. Taxila after 1993.
- 3. Diploma Holders are also eligible to apply. However, in order to determine relevant merit diploma holders will be placed below the applicants possessing Fsc (Preengineering)/BSc.

The applicants have to furnish with their applications, a certificate from the Registrar of the University on Form F-VI(Available in Registrar's office).

29.12. 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 application an attested photocopy of their parent's Bachelors Degree in Engineering, renewed PEC Registration and domicile of their father/parent. Other qualifications such as AMIE (Pak) are not recognized for inclusion in this category.

29.13. 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.

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

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.

29.15. Category A2 (Punjab Province Nonsubsidized)

The applicant should be a bonafide resident of the Punjab province. The eligibility conditions are same as laid down in clause 28.1. 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.

29.16. 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. In order to determine the merit, diploma holders will be placed below the applicant possessing FSc/BSc.

29.17. Category SA (KSA Resident students)

A total number of ten seats have been allocated for the residents of Kingdom of Saudi Arabia in various disciplines of the University. The first batch will be admitted in 2007 & nominated candidates by the kingdom of Saudi Arabia will

have to attend and pass the pre-requisite subjects to be offered by UET Taxila in zerosemester, consequently their admission will be confirmed. The fee structure for these students shall be the same as for those admitted in selfsupporting foreign students scheme.

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.

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

The Verification Committee will meet for this purpose in the office of the Convener, Admission Committee, at 9:00 a.m. on 21st September 2006. 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 qualification

Formula

(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

(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

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(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

 $\begin{array}{l} (70((2570+20)/3100)) + (30(240/400)) \\ = \ 76.483 \ \% \end{array}$

	······································								
	CATEGORIES	Civil	Comp.	Elect.	Mech.	Soft.	Electronics	Mechotronics	
A1 or W1	Subsidized (Punjab)	72.490	74.300	79.356	76.927	71.345	73.097	71.568	
A2 or W2	Non-Subsidized (Punjab)	68.259	68.681	76.881	74.681	65.293	70.315	66.602	
I	Diploma of Associate Engineers	59.995	-	74.050	74.129	-	-		
N	Children of Graduate Engineers	70.318	-	78.771	-	-	-	-	
L	Backward Areas	-	-	79.197	-	-	-	-	
0	University Alumni	-	-	74.350	-	-	-	-	

31. Merit for the Session 2005-2006 (Entry 2005)

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 Sind but his parent is posted in Punjab can apply against seats reserved for Sind 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

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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.

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- **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	Comp
ElectricalEngineering	Elect
Mechanical Engineering	Mech
Software Engineering,	Soft

- **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. The applicants can check the merit lists according to the schedule given in Section 40.

36.2. Depositing of Dues and Documents

Within FIVE days of the display of the merit list, 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 selectee 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

Admission shall be closed after the expiry of **forty-five days** from the commencement of the first year class.

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

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.

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Fee and Other Charges



















Fee and Other Charges

37. Fees and Other Charges

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

	Subsidized	Non-subsidized
	(In Pak. R	Cupees)
Non-Recurring (Payable at the time of admission)		
Admission fee/Re-admission Fee	1000	5000
Registration Fee	500	2000
University Security (Refundable)	1000	1000
Library Security (Refundable)	500	500
Survey Camp Charges (for Civil Engg. Only)	1500	1500
Students Bus Card Fee	30	30
Students Identity Card Fee	30	30
Verification Fee	500	500
Recurring Fee (per annum, in two installments)		
Tutorial Fee	100	100
Inter-University Tournament Fee	100	100
Magazine Fee		
Medical Fee	300	300
Library Fund	150	150
Instructional Tour Fee	300	300
Recurring Fee (per month)		
Tuition Fee	600	5600
Recreation Fee		
Bus Fare for Resident	100	100
Bus Fare for Non-Resident	250	250

Note: Exam Fee see section 18.5 a.

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

2 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.

37.2. HOSTEL CHARGES

	(In Pak. Rupees)
Hostel Security (Refundable) Payable at the time of admission	1000
Mess Security (Refundable) Payable at the time of admission	1000
Service and Contingency Charges (Payable at the time of admission)	500
Room Rent (Per month)	
Cubicle	250
Dormitory	200
Electricity Charges (Per month)	
Room (Cubicle)	300
Room (Dormitory)	200
Room Heater	300
Sui Gas Charges (Per month)	100

37.3. Periods of Fees and o Charges:

Tuition, recreation, union, Sui gas charges and medical fees are charged for twelve months. The hostel charges are payable for the period of occupation, a part of a month being counted as a full month. Electricity charges for fans are payable for six months. Electricity charges for room heaters are payable for the winter season for four months.

37.4. Un-claimed 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.

37.5. Use of Room Heater and Refrigerators

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Prior permission of the resident tutor has to be obtained for use of a room heater or refrigerator, which shall be granted only after payment of the prescribed charges i.e. Rs.200 per month for each. The use of a room heater is restricted to 1000W. Any violation of these rules shall be dealt with under the university rules of discipline.

37.6. Air-conditioners

In the hostel the use of air-conditioners is disallowed. 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 Director Student Affairs.

37.7. Non-payment of Fee and Charges:

A fine of Rs.5.00 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.



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA

Course Outlines Under Term System



















Course Outlines Under Term System

<u>38 Course Outlines under Term System</u>

38.1 B.Sc. CIVIL ENGINEERING COURSES FOR FIRST YEAR CIVIL ENGINEERING

1st Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CE-101	Civil Engineering Drawing	1	2	100	100
CE-102	Engineering Mechanics.	2	1	100	50
CE-103	Engineering Geology	2	1	75	25
CE-104	Hydrology & Water Resources	2	1	100	50
MA-105	Mathematics-I	3	0	150	0
	Total:	10	5	525	225
	Term Total for Part-I & II	15		750	

2nd Term

Course No.	Course Title	Credit Hours		Marks		
		Part I	Part II	Part I	Part II	
CE-106	Surveying-I	2	4	125	100	
CE-107	Civil Engineering Materials	2	1	125	50	
CE-108	Communication Skills & Technical Report Writing	1	1	100	50	
MA-109	Mathematics - II	3	0	150	0	
HU-110	Pakistan Studies	2	0	50	0	
	Total:	10	6	550	200	
	Term Total for Part-I & II	16		750		
	Total for 1st Year		31	1500		

COURSES FOR SECOND YEAR CIVIL ENGINEERING

3rd Term

Course No.	Course Title	Credit Hours		Marks		
		Part I	Part II	Part I	Part II	
CE-201	Fluid Mechanics-I	2	1	100	50	
CE-202	Surveying-II	2	4	100	75	
CE-203	Properties of Concrete	2	1	100	50	
CE-204	Civil Engineering Practice	2	1	100	25	
MA-205	Mathematics & Computer Programming	2	1	100	75	
	Total:	10	08	500	275	
	Term Total for Part-I & II	18		775		

4th Term

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Co	ourse No.	Course Title	Credit Hours		Marks	
			Part I	Part II	Part I	Part II
CE	-206	Theory of Structures-I	3	1	100	50
CE	-207	Strength of Materials-I	2	1	100	50
CE	-208	Soil Mechanics-I	2	1	100	75
CE	-209	Drawing, Estimation & Construction	1	3	100	100
HU	J-210	Islamic Studies	2	0	50	0
		Total	10	6	450	275
		Term Total for Part-I & II	1	6	72	25
		Total for 2nd Year	3	34	1	500

COURSES FOR THIRD YEAR CIVIL ENGINEERING

5th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CE-301	Theory of Structures-II	3	1	150	75
CE-302	Strength of Materials-II	3	1	150	50
CE-303	Soil Mechanics-II	2	2	100	75
CE-304	Construction Planning & Management	2	1	100	50
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	

6th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CE-305	Computer Applications	2	2	75	75
CE-306	Reinforced Concrete-I	3	1	100	50
CE-307	Design of Steel Structures	2	1	100	50
CE-308	Fluid Mechanics-II	2	1	100	50
CE-309	Transportation Engineering-I	2	2	100	50
	Total	11	7	475	275
	Term Total for Part-I & II	18		750	
	Grand Total for 3rd Year	33		1500	

COURSES FOR SECOND YEAR ELECTRICAL ENGINEERING

3rd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-201	Circuit Analysis-II	2	1	100	50
EE-202	Power Systems	2	1	100	50
EE-203	Electronic Circuits - I	2	1	100	50
EE-204	Computer Aided Design	1	1	50	50
EE-205	Discrete Math & Numerical Techniques	1	1	50	50
HU-206	Communication Skills	1	1	50	50
	Total	9	6	450	300
	Term Total for Part-I & II	15		750	

4th Term

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Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-206	Elect. Measurement & Instruments	2	1	100	50
EE-207	Digital Systems	2	1	100	50
EE-208	Signals and Systems	2	1	150	50
EE-209	Operating Systems	2	1	100	50
EE-210	Probabilistic Methods in Elect. Eng.	1	0	100	0
EE-212	Eng. Management	1	0	100	0
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	
	Total for 2nd Year	30		150	0

COURSES FOR THIRD YEAR ELECTRICAL ENGINEERING

5th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-301	Electromagnetic Field Theory	2	1	100	50
EE-302	Electronic Circuit-II	2	1	100	50
EE-303	Microprocessor: Architecture & Programming	2	1	100	50
EE-304	Linear Control System	2	1	100	50
	Elective - I	2	1	100	50
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	

6th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-305	Power Electronics	2	1	100	50
EE-306	Micro-Computer Systems	2	1	100	50
EE-307	Antenna & Wave Propagation	2	1	100	50
EE-308	communication Systems	2	1	100	50
	Elective-II	2	1	100	50
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	
	Total for 3rd Year	3()	150	0

COURSES FOR FINAL YEAR CIVIL ENGINEERING

7th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CE-401	Reinforced Concrete-II	3	1	100	50
CE-402	Hydraulic Engineering	2	1	100	25
CE-403	Environmental Engineering-I	2	1	100	25
CE-404	Transportation Engineering-II	2	1	100	50
CE-405	Foundation Engineering	2	1	100	50
CE-406 (A)	Project	0	2		50
Total:		11	7	500	250
	Term Total for Part-I & II	18	3	750	

8th Term

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Course No.	Course Title	Credit Hours		Marks	
		Partl	PartII	Partl	PartII
CE-407	Structural Engineering	2	1	100	50
CE-408	Irrigation Engineering	2	1	100	25
CE-409	Design of Structures	1	3	75	50
CE-410	Environmental Engineering -II	2	1	75	25
CE-411	Computer Aided Analysis & Design	1	2	50	50
CE-406 (B)	Project	0	2	0	150
	Total	08	10	400	350
	Term Total for Part-I & II	18		750	
	Total 4th Year	36		1500)
	Grand Total for Final Year	134		6000	

38.2 B.Sc. ELECTRICAL ENGINEERING COURSES FOR FIRST YEAR ELECTRICAL ENGINEERING 1st Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-101	Electricity and Magnetism	2	1	100	50
EE-102	Digital Logic Design	2	1	100	50
MA-103	Engg. Mathematics-I	3	0	125	0
EE-104	ElectricShop	1	1	50	50
ME-105	Mechanical Technology	2	1	100	50
HU-106	Islamic Studies	1	0	50	0
	Total:	11	4	525	200
	Term Total for Part-I & II	15		725	

2nd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-107	Electronic Devices	2	1	100	50
EE-108	Circuit Analysis-I	2	1	100	50
EE-109	Object Oriented Programming	2	2	100	50
EE-110	Electrical Machines	2	1	100	50
MA-111	Eng. Math-II	3	0	125	0
HU-112	Pak. Studies	1	0	50	0
	Total	12	5	575	200
	Term Total for Part-I & II	17		775	
	Grand Total for 1st Year	32		150	0

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COURSES FOR FINAL YEAR ELECTRICAL ENGINEERING

7th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-401	TV & Telecom Engineering	2	0	100	0
EE-402	Digital Signal Processing	2	1	100	50
EE-403	Computer networks	2	1	100	50
EE-404	Preliminary Project Studies	0	2	0	50
	Elective - III	2	1	100	50
	Elective-IV	2	1	100	50
	Total	10	6	500	250
	Term Total for Part-I & II	1	6	750	

8th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-405	VLSI System Design	2	1	100	50
EE-406	Power Distribution & Utilization	2	1	100	50
EE-407	Project	0	4	0	150
	Elective-V	2	1	100	50
	Elective-VI	2	1	100	50
	Total	8	8	400	350
	Term Total for Part-I & II	16		750	1
	Total for Final Year	32		1500)
	Grand Total for Four Years	124		6000)

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Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-309	Advance Programming Language	2	1	100	50
EE-310	Industrial Automation	2	1	100	50
EE-311	Power Plants	2	1	100	50
EE-312	Power Transmission	2	1	100	50
EE-313	Software Engineering	2	1	100	50
EE-314	Operation Research	2	1	100	50
EE-315	E-Commerce	2	1	100	50
EE-316	Embedded System Design	2	1	100	50
EE-317	& Systems	2	1	100	50

ELECTIVE COURSES FOR 3rd YEAR ELECTRICAL ENGINEERING

ELECTIVE COURSES FOR FINAL YEAR ELECTRICAL ENGINEERING

Course No.	Course Title	Credit Hours		Mar	ks
		Part I	Part II	Part I	Part II
EE-408	Microelectronics	2	1	100	50
EE-409	Microwave Theory & Techniques	2	1	100	50
EE-410	Advance Digital Design	2	1	100	50
EE-411	Digital Control System	2	1	100	50
EE-412	Digital Communication	2	1	100	50
EE-413	Digital Image Processing	2	1	100	50
EE-414	Mobile Communication	2	1	100	50
EE-415	Optical Communication	2	1	100	50
EE-416	Database Management	2	1	100	50
EE-417	Advance Operating Systems	2	1	100	50
EE-418	Management Information System	2	1	100	50
EE-419	Parallel & Distributed Computing	2	1	100	50
EE-420	Power System Analysis	2	1	100	50
EE-421	Power System Protection	2	1	100	50
EE-422	Electrical M/c Design	2	1	100	50
EE-423	High Voltage Engineering	2	1	100	50
EE-424	Artificial Intelligence	2	1	100	50
EE-425	Electrical Estimation, Installations and	2	1	100	50
	Planning				

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. The department will offer Elective Courses depending on the available facilities. Note: 1.

2.

38.3 B.Sc. COMPUTER ENGINEERING COURSES FOR FIRST YEAR COMPUTER ENGINEERING

1st Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CP-101	Introduction to Computing	2	1	100	50
EE-102	Electronic Devices	2	1	100	50
EE-103	Basic Electrical Engineering	2	1	100	50
EE-104	Electrical Circuits	2	1	100	50
MA-105	Engg. Math-I	3	0	125	0
HU-106	Pakistan Stuidies	1	0	50	0
	Total	12	4	575	200
	Term Total for Part-I & II	16		775	

2nd Term

Course No	. Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-107	Programming Techniques	2	1	100	50
EE-108	Digital Logic Design	2	1	100	50
EE-109	Engineering Drawing and Workshop	1	1	50	50
CP-110	Discrete Structure	2	1	100	50
MA-111	Engineering Math-II	3	0	125	0
EE-112	Engineering Economics	1	0	50	0
	Total	11	4	525	200
	Term Total for Part-I & II	15 31		725	
	Grand Total for 1st Year			1500	

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COURSES FOR SECOND YEAR COMPUTER ENGINEERING 3rd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CP-201	Numerical Methods	2 1		100	50
SE-202	Data Structures & Algorithms	2	1	100	50
EE-203	Communication Systems	2	1	100	50
EE-204	Analog Electronic	2	1	100	50
HU-205	Technical Report Writing	2	1	100	50
HU-206	Islamic Studies	1	0	50	0
	Total	11	5	550	250
	Term Total for Part-I & II	16		800	

4th Term

Course No.	Course Title	Credit H	lours	Marks	
		Part I	Part II	Part I	Part II
CP-207	Computer Architecture & Organization	2	1	100	50
SE-208	Object Oriented Programming	2	1	100	50
CP-209	Antenna & Wave Propagation	2 1		100	50
EE-210	Digital Electronics	2	1	100	50
EE-211	Engineering Management	2	0	100	0
	Total	10	4	500	200
	Term Total for Part-I & II	14		700	
	Grand Total for 2nd Year	30		150	0

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COURSES FOR THIRD YEAR COMPUTER ENGINEERING 5th Term

Course No.	Course Title	Credit H	lours	Marks		
		Part I	Part II	Part I	Part II	
CP-301	Database Management Systems	2	1	100	50	
SE-302	Software Engineering	2	1	100	50	
HU-303	Communication Skills	1	0	50	0	
CP-304	Advanced Computer Arch.	2	1	100	50	
CP-305	Signals and Systems	2	0	100	0	
	Elective-I	2	1	100	50	
	Total	11	4	550	200	
	Term Total for Part-I & II	15		750		

6th Term

Course No.	Course Title	Credit H	lours	Marks	
		Part I	Part II	Part I	Part II
CP-306	Computer Communication & Networks	2	1	100	50
CP-307	Digital Signal Processing	2	1	100	50
EE-308	Microprocessor Systems	2	1	100	50
EE-309	OperatingSystems	2	1	100	50
	Elective-II	2	1	100	50
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	
	Grand Total for 3rd Year	30		150	0

COURSES FOR FINAL YEAR COMPUTER ENGINEERING 7th Term

Course No.	Course Title	Credi	t Hours	Marks		
		Part I	Part II	Part I	Part II	
EE-401	Insts & Measurements	2	1	100	50	
CP-402	Control Engineering	2	1	100	50	
CP-403	Preliminary Project Studies	0	0 2		50	
CP-404	Embedded System Design	2	1	100	50	
	Elective-IV	2	1	100	50	
	Elective-V	2	0	100	0	
	Total	10	6	500	250	
	Term Total for Part-I & II	16		750		

8th Term

Course No.	Course Title	Credit Hours		Marks		
		Part	[Part II	Part I	Part II
CP-405	Project	0		6	0	150
	ElectiveV	2		1	100	50
	ElectiveVI	2 2		1	100	50
	Elective VII			1	100	50
	Elective VIII	2		1	100	50
	Total	8		10	400	350
	Term Total for Part-I & II	18 34		750 1500		
	Total for Final Year					
	Grand Total for Four Year	1	125	5	6000	

UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA - UNDERGRADUATE PROSPECTUS 2006 105

ELECTIVE COURSES FOR THIRD YEAR COMPUTER ENGINEERING

Course No.	Course Title	Credit H	lours	Marks	
		Part I Par			Part II
CP-310	Computer System Engineering	2	1	100	50
CP-311	Electric Machines	2	1	100	50
CP-312	Computer Graphics	2	1	100	50
CP-313	Information Theory& Coding	2	1	100	50
CP-314	Advance Operating Systems	2	1	100	50
CP-315	System Programming	2	1	100	50
CP-316	Optimization Techniques	2	1	100	50
CP-317	Probability and Random Variables	2	1	100	50

ELECTIVE COURSES FOR FINAL YEAR

Cou	rse No.	Сот	urse Tit	le			Credi	t Hours	Mar	ks
							Part I	Part II	Part I	Part II
CP-4	06	Con	npiler Des	sign			2	1	100	50
CP-4	07	Mod	leling & S	imulati	on		2	1	100	50
CP-4	08	Ima	ge & Spe	ech Prod	cessing		2	1	100	50
CP-4	09	Arti	icial Intel	ligence			2	1	100	50
CP-4	10	Man	agement	Inform	ation Sy	ystems	2	1	100	50
CP-4	11	Digi	talContro	ol Syste	ms		2	1	100	50
CP-4	12	Opti	cal Com	nunicat	ion		2	1	100	50
CP-4	13	Artif	icial Neu	ral Netv	vorks		2	1	100	50
CP-4	14	Non	-liner Sys	stem and	d Contro	ol	2	1	100	50
CP-4	15	Para	llel Proce	essing			2	1	100	50
CP-4	16	Auto	omata Th	eory			2	1	100	50
CP-4	17	VLS	I System	Design			2	1	100	50
CP-4	18	Ope	ration Re	search			2	1	100	50
CP-4	19	Micro	processor	& Microc	ontroller I	Applications	2	1	100	50
CP-4	20	Obje	ect Orient	ed Desi	gn		2	1	100	50
CP-4	21	Wire	eless Com	munica	ation		2	1	100	50
CP-4	22	Vide	eo Stream	ing			2	1	100	50
CP-4	23	Inte	grated set	vices o	ver Pacl	ket Networks	2	1	100	50
CP-4	24	Sign	al Detect	ion & E	stimatic	n	2	1	100	50
CP-4	25	Broa	adband S	witchin	g Syster	ns	2	1	100	50

38.4 B.Sc. SOFTWARE ENGINEERING COURSES FOR FIRST YEAR SOFTWARE ENGINEERING 1st Term

Course No.	Course Title	Credit	Hours	Marks		
		Part I	Part II	Part I	Part II	
CP-101	Introduction to Computing	2	1	100	50	
EE-102	Electronic Devices	2	1	100	50	
EE-103	Basic Electrical Engineering	2	1	100	50	
EE-104	Electrical Circuits	2	1	100	50	
MA-105	Engg. Math-I	3	0	125	0	
HU-106	Communication Skills	1	0	50	0	
	Total	12	4	575	200	
	Term Total for Part-I & II	16		775		

2nd Term

Course No.	Course Title	Credit Hours		Marl	KS	
		Part I	Part II	Part I	Part II	
SE-107	Programming Techniques	2	1	100	50	
EE-108	Digital Logic Design	2	1	100	50	
EE-109	Engineering Drawing and Workshop	1	1	50	50	
MA-110	Engineering Math-II	3	0	125	0	
HU-111	PakStudies	1	0	50	0	
EE-112	Technical Report Writing	2	1	100	50	
	Total	11	4	525	200	
	Term Total for Part-I & II	15		725		
	Grand Total for 1st Year	3	1	1500		

COURSES FOR SECOND YEAR SOFTWARE ENGINEERING 3rd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CP-201	Discrete Structure	2	1	100	50
SE-202	Data Structures & Algorithms	2	1	100	50
CP-203	Numerical Methods	2	1	100	50
EE-204	Analog Electronic	2	1	100	50
SE-205	Management Info. System	2	0	100	0
HU-206	Islamic Studies	1	0	50	0
	Total	11	4	550	200
	Term Total for Part-I & II	15		750	

4th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CP-207	Computer Architecture	2	1	100	50
SE-208	Object Oriented Programming	2	1	100	50
CP-209	Numerical Methods	2	1	100	50
SE-210	Operating Systems	2	1	100	50
SE-211	Management Information System	2	0	100	0
HU-212	Engineering Economics	1	0	50	0
	Total	11	4	550	200
	Term Total for Part-I & II	15		750	
	Grand Total for 2nd Year	30		150	0

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COURSES FOR THIRD YEAR SOFTWARE ENGINEERING 5th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
CP-301	Database Management Systems	2	1	100	50
SE-302	Software Engineering-I	2	1	100	50
SE-303	Artificial Intelligence	2	1	100	50
EE-304	Microprocessors & Interfacing	2	1	100	50
SE-305	Date Communications	2	1	100	50
	Total	10	5	500	250
	Term Total for Part-I & II	15		750	

6th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-306	Modeling & Simulation	2	1	100	50
SE-307	Internet Application Development	1	2	50	100
SE-404	Software Project Management	2	1	100	50
SE-309	Computer Networks	2	1	100	50
	Elective-I	2	1	100	50
	Total	9	6	450	300
	Term Total for Part-I & II	15		750	
	Grand Total for 3rd Year	30		150	0

COURSES FOR FINAL YEAR SOFTWARE ENGINEERING 7th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-401	Advance Computer Sys.	2	1	100	50
SE-402	Computer Graphics & Image Processing	2	1	100	50
SE-403	Preliminary Project Studies	0	2	0	50
SE-308	Software Engineering-II	1	1	50	50
	Elective-II	2	1	100	50
	Elective-III	2	1	100	50
	Total	10	7	500	300
	Term Total for Part-I & II	16		750	

8th Term

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Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-405	System Programming	2	1	100	50
SE-406	Project	0	6	0	150
	Elective-III	2	1	100	50
	Elective-IV	2	1	100	50
	Elective-V	2	1	100	50
	Total	8	10	400	350
	Term Total for Part-I & II	18		750	
	Total for Final Year	34		150	0
	Grand Total for Final Year	125	5	600	0

UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA - UNDERGRADUATE PROSPECTUS 2006

ELECTIVE COURSES FOR THIRD YEAR SOFTWARE ENGINEERING

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-310	Communication System	2	1	100	50
SE-311	Applied Electronics	2	1	100	50
SE-312	Instrumentation & Measurements	2	1	100	50
SE-313	Advanced Operating Systems	2	1	100	50
SE-314	Human Computer Interaction	2	1	100	50

ELECTIVE COURSES FOR FINAL YEAR SOFTWARE ENGINEERING

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
SE-407	Quality System Design	2	1	100	50
SE-408	Advance Software Packages	2	1	100	50
SE-409	Optimization Techniques	2	1	100	50
SE-410	Design of Intelligence Systems	2	1	100	50
SE-411	Embedded System Design	2	1	100	50
SE-412	Robotics	2	1	100	50
SE-413	Image and Speech Processing	2	1	100	50
SE-414	Digital Control Systems	2	1	100	50
SE-415	Fault Diagnosis and Tolerant Systems	2	1	100	50
SE-416	Internet & Multimedia Applications	2	1	100	50
SE-417	Artificial Neural Network	2	1	100	50
SE-418	Object Oriented Design	2	1	100	50
SE-419	Wireless Communication	2	1	100	50
SE-420	Video Streaming	2	1	100	50
SE-421	Integrated services over Packet Networks	2	1	100	50
SE-422	Signal Detection & Estimation	2	1	100	50
SE-423	Broadband Switching Systems	2	1	100	50
SE-424	Probability and Random Variables	2	1	100	50
SE-425	Non-Linear System and Control	2	1	100	50

38.5 B.Sc. MECHANICAL ENGINEERING COURSES FOR FIRST YEAR MECHANICAL ENGINEERING 1st Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
ME-101	Computer Programming & Applications	2	1	100	50
ME-102	Engineering Statics	2	1	100	50
ME-103	Applied Thermodynamics-I	3	1	100	50
ME-104	Workshop Technology	1	2	100	100
MA-105	Applied Mathematics-I	4	0	100	0
	Total	12	5	500	250
	Term Total for Part-I & II	17		750	

2nd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
EE-106	Electrical Engineering	2	1	100	50
ME-107	Engineering Drawing & Graphics	2	2	100	100
ME-108	Mechanics of Materials-I	3	1	100	50
ME-109	Engineering Dynamics	2	1	100	25
ME-110	Fluid Mechanics	2	1	100	25
	Total	11	6	500	250
	Term Total for Part-I & II	21		750	
	Grand Total for 1st Year	34		150	0

COURSES FOR SECOND YEAR MECHANICAL ENGINEERING

3rd Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
ME-201	Machine Design & CAD-I	2	2	150	100
ME-202	Applied Thermodynamics-II	2	1	100	50
ME-203	Hydraulic Machinery	2	1	100	50
ME-204	Machine Tools & Machining	3	1	100	50
HU-205	Islamic Studies	2	0	50	0
	Total	11	5	500	250
	Term Total for Part-I & II	16		750	

4th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
ME-206	Mechanics of Materials-II	3	1	100	50
EE-207	Modern Electronics	2	1	100	50
MA-208	Applied Mathematics-II	4	0	150	0
ME-209	Mechanics of Machines-I	2	1	100	50
ME-210	Industrial Engineering-I	2	1	100	50
	Total	13	4	550	200
	Term Total for Part-I & II	17		750)
	Grand Total for 2nd Year	33		1500	

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COURSES FOR THIRD YEAR MECHANICAL ENGINEERING

5th Term

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
ME-301	Mechanics of Machines-II	2	1	100	50
ME-302	Machine Design & CAD-II	2	2	150	100
ME-303	Engineering Economics & Optimization	3	1	100	50
ME-304	Engineering Materials	2	1	100	50
HU-305	Pakistan Studies	2	0	50	0
	Total	11	5	500	250
	Term Total for Part-I & II	20		750	

6th Term

||4

Course No.	Course Title	Credit Hours		Marks	
		Part I	Part II	Part I	Part II
ME-306	Heat and Mass Transfer	3	1	100	50
ME-307	Energy Resources & Utilization	2	1	100	50
ME-308	Production Engineering	2	1	100	50
ME-309	Power Plants	2	1	100	50
ME-310	Finite Element Methods	3	1	100	50
	Total	12	5	500	250
	Term Total for Part-I & II	20		750	
	Grand Total for 3rd Year	33		1500	

COURSES FOR FINAL YEAR MECHANICAL ENGINEERING

7th Term

Course No.	Course Title	Credit Hours Ma		Mar	ks
		Part I	Part II	Part I	Part II
ME-401	Internal Combustion Engines	2	1	100	50
ME-402	Mechanical Vibration	3	1	100	50
ME-403	Refrigeration & Air-conditioning	3	1	100	50
ME-404	Industrial Engineering-II	2	1	100	50
ME-405	Advanced Manufacturing System	2	1	100	50
	Total	12	5	500	250
	Term Total for Part-I & II	1	7	750	

8th Term

Course No.	Course Title	Credit Hours Marks		KS	
		Part I	Part II	Part I	Part II
ME-406	Stress Analysis	2	1	100	50
ME-407	Engineering Management	2	1	75	25
ME-408	Gas Dynamics	2	1	100	25
ME-409 or ME-412	Mechatronics and Robotics/ Instrumentation and Control	2	1	100	25
MA-410	Communication Skills	1	0	50	0
ME-411	Project	0	6	0	200
	Total	9	10	425	325
	Term Total for Part-I & II	19		750	
	Total for Final Year	36		1500	
	Grand Total for Final Year	136	5	600	0



UNIVERSITY Of ENGINEERING and TECHNOLOGY TAXILA





Prof. Dr. M. A. Rehman Sheikh Campus Director



Chakwal Campus

Campus Director/ Professor

Prof. Dr. M. A. Rehman Sheikh PhD (Romania)

The City of Chakwal

The city of Chakwal was first known during the Mughal's Period. Situated in a hilly area it is surrounded by mines of salt, coal and other valuable minerals. Presently industrial zone is being developed around the periphery of Chakwal.

Academic Programs

The UET Taxila has established its first Sub-Campus at Chakwal. The 2nd entry (2006) of 104 students will be admitted in two disciplines.

Rules and Regulations

In general, all rules and regulations mentioned for main campus in this prospectus will also be applicable for Chakwal Campus.

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 28.1, 28.3, 28.4 and 28.5.

Admission Schedule

Admission at Chakwal campus will be held after the completion of admission at Taxila campus. Detailed schedule will be advertised separately. Anyhow the result of entry test held September 10, 2006 will be valid for disadmission also.

	CATEGORIES	Electronics	Mechatronics	Total
W1	Punjab (Subsidized)	30	30	60
W2	Punjab (Non-subsidized)	20	20	40
S1	Chakwal Domicile (Subsidized)	1	1	2
S2	Chakwal Domicile (Non-subsidized)	1	1	2

Seats Allocation Chart, 2005-ENTRY (Chakwal Campus)

Categories and Symbols 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-Non-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. The selected candidates will have to pay the dues for Non-subsidized category as per schedule given in clause 36.1. Diploma holders are not eligible to apply.

Category S1 (Chakwal Domicile Subsidized)

120

The applicant should be a bonafide resident of district Chakwal. 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 36.1. Diploma holders are not eligible.

Category S2 (Chakwal Domicile Nonsubsidized)

The applicant should be a bonafide resident of district Chakwal. The selection and allocation of disciplines are made by the university according to merit. The selected candidates will have to pay the dues for Non-subsidized category as per schedule given in clause 36.1. Diploma holders are not eligible to apply.

Abbreviations for Disciplines

If a candidate give 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.

40. ADMISSION COMMITTEE - UNDERGRADUATE - ENTRY 2006

Phone Numbers

Chairman:	
Prof. Dr. M. Zafrullah	0519047566
Convener	
Mr. Shahbaz Pervez Chattha	051 9047465
	051-9047412
Members	
The Registrar	051 9047405
The Treasurer	051 9047408
Mr. Abdul Rauf	051 9047482
Engr. Khalid Masood Khanr	051 9047667
Engr. Usman Ali	
Engr. Irfan Arshad	
Engr. Muhammad Rizwan	
Engr. Asim Malik	
Prospectus Publication Committee:	
Prof. Dr. Muhammad Zafrullah	Chairman
Mr. Shahbaz Pervez Chattha	Convener
Mr. Muhammad Yaqub Assy	Prospectus Printing
Mr. Muhammad Amin Sheikh	Store Keeper
ADMISSION STAFF UNDERGRADU	ATE - ENTRY 2006
Engr Nazir Ahmad Anjum	Admission Officer

Engr. Nazir Ahmad Anjum Mr. Muhammad Asghar Mahmood, (Admin. Officer) Mr. Muhammad Riaz Mr. Sanaullah Admission Officer Admission Processing Admission Processing Admission Processing

41. ADMISSION SCHEDULE FOR 2006-ENTRY (Insha Allah)

Entry Test Forms will be available Last Date of Receipt of Entry Test Forms Entry Test Prospectus will be available Application Receipt Hifz-e-Quran Test 1st Merit List on the Notice Board 2nd Merit List on the Notice Board 3rd Merit List on the Notice Board Registration of Admitted Students Start for 1st Year Classes Admission Closed 15th August to 5th Sep. 2006 5th September, 2006 10th September, 2006 10th Sep. to 20th Sep. 2006 21st September 2006 (Thursday) 28 September 2006 05 October 2006 16 October 2006 20-21 October 2006 30 October 2006 14 December 2006

- 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. and the notice board in addmission office.
 - NB: The display of merit lists shall continue till the date of admission closed subject to availability of seats.

UNIVERSITY OF ENGINEERING AND TECHNOLOGY TAXILA - UNDERGRADUATE PROSPECTUS 2006



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