UNDERGRADUATE
PROSPECTUS
2016 Entry

SWEDISH
College of Engineering & Technology

Affiliated with
University of Engineering & Technology
(UET) Taxila

Accredited by
Pakistan Engineering Council
(PEC)
Vision

To serve the humanity through dissemination of quality engineering knowledge and skills among the youth.

Mission

To achieve the 'SCET Vision' by deploying the best possible teaching practices for delivering engineering education and technological hand-on experience.

Core values

- Outcome-Based Education
- Team Work
- Discipline
- Integrity
بِلِيْلِ الْحَـيْلِ
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13 STUDENTS PORTAL
It is a well known fact that the Engineering and Technology is advancing very swiftly in this modern age, and that has completely revolutionized the industrial, agricultural and commercial sectors. Keeping in view the fast global technological advancements, we are committed to provide quality engineering and technical education. The establishment of Swedish College of Engineering and Technology (SCET) at Wah Cantt will prove to be a blessing for the people in general and the aspirant engineering and technology candidates in particular and provide them an opportunity to seek education in their chosen fields to serve their homeland, society and the nation as a whole.

In order to create an enchanting, pleasant and learning environment, the purpose-built college building houses is the state-of-art, laboratories, library, classrooms, sports facilities etc. We have enrolled highly qualified, dedicated and experienced faculty to impart quality education and to equip the students not only with the professional and technical knowledge but to create confidence in them.

The prospectus of 2014-15 has been prepared to provide the candidates desirous of seeking admission in B.Sc. Engineering Programs, information about the courses offered by Swedish College of Engineering and Technology, Wah Cantt. In addition, the information about the selection procedure, available seats, rules and procedures are also briefly stated here.

We believe in strict discipline and desire the students to refrain themselves from indulging in any unlawful, indecent, and anti-social activities so that they may achieve their academic excellence in a soothing and tranquil environment.

Zarar Hussain
Chairman
Board of Management
Message from the Principal

A human society is known by its moral values, social dignity and a promising vibrancy among its youth. Verily it is the 'Education' which propagates sanity and vision across the canvas of a society and regulates its indicators optimally. However in the present-day world, the rapid flow of information and an ever-growing hunger for career development has prompted a fierce competition for professional education in particular. Yet it is only the quality institutions committed to deliver outcome-based education which sustain and stay in the arena. Only they can attract the students and can shape their life profiles. Alhamd o Lillah, Swedish College of Engineering & Technology Wah Cantt lies in such a valued contingent of institutions in Pakistan. It is disseminating quality engineering knowledge and skills to the youth and is widely trusted in the society.

We promote active learning and effective practices in teaching. Our faculty is dynamic and competent, structures are lofty and impressive, and norms are stable and cherishing. We have well-equipped laboratories, a precious central library, spacious classrooms and a students’ hostel just at our doorsteps. Our institutions are organised and disciplined, and we strive to deliver excellence in education providing the students a secure and fostering environment.

The Swedish College of Engineering & Technology Wah Cantt enjoys its affiliation from University of Engineering & Technology Taxila - a glorious name in the educational world and known since decades. It is also accredited by Pakistan Engineering Council for the undergraduate engineering degree programs in Electrical, Mechanical and Civil Engineering disciplines.

I urge upon my students in general and the new comers in particular to take full advantage of the wide range of facilities available at the campus, get exposed themselves to new ideas and skills and always keep going for lucrative hands-on experience. They should also get engaged in cultural activities and remain connected with the global environment and its developments.

(Dr Muhammad Sharif Bhatti)

Principal
Organizational Setup

Chairman Board of Management

Mr Zarar Hussain

Principal

Prof Dr. Muhammad Sharif Bhatti

Registrar

Dr. Liaquat Ali Najmi

Director (HR & Finance)

Lt. Col. (Retd) Khurram Amin Malik

Director (Administration)/
Controller of Examinations

Lt. Col. (Retd) Arshad Mahmud

Director (Research & Development)

Prof. Dr. Rafi Javed Qureshi

Director (QEC & External Coordination)

Muhammad Tariq Raja
Heads of Academic Departments

Civil Engineering

Prof. Dr. M. Sharif Bhatti

Electrical Engineering

Prof. Dr. Umar Farooq

Mechanical Engineering

Dr. Liaquat Ali Najmi

Basic Sciences & Humanities

Prof. Dr. M. Akram Javaid
Swedish College of Engineering and Technology, Wah Cantt

Introduction

Swedish College of Engineering and Technology, Wah Cantt, is an upcoming engineering college in the private sector surrounded by expanding industrial neighborhood. The college is established by a registered trust, Al-Asar Gujranwala Technical Education Society, formed for the promotion of technical education in the country.

The trust has already been running eleven technical institutes for the last 20 years, thus catering for the needs of skilled manpower for the growing industry of the country. With 20 year’s experience in delivering technical education, now the trust has established engineering colleges at Wah Cantt and Rahim Yar Khan. The college at Wah Cantt serve the population of Northern Punjab and K.P.K.

Presently, the college is offering undergraduate programs in the fields of Civil Engineering, Electrical Engineering and Mechanical Engineering. The college is affiliated with the University of Engineering and Technology (UET), Taxila. Four years B.Sc. programs in Civil, Electrical and Mechanical Engineering are accredited by the Pakistan Engineering Council (PEC). On successful completion of program requirements, engineering degrees are awarded to SCET graduates by University of Engineering and Technology (UET), Taxila.

City of Wah Cantt

Wah Cantt is a cantonment city located in the North-West of Islamabad at a distance of 50 km. It is a valley surrounded by hills from all directions. Wah has always been a favorite place of the Mughal Rulers. They built here a garden known as Wah Garden, bisecting Hassan Abdal and Wah Cantt.
The City of Taxila

The antique name 'Takshasila' means the city of cut stones. Taxila has gained worldwide eminence for its archaeological sites. It attained a remarkably mature level of development under the great Ashoka. Then appeared the Indo-Greek descendants of Alexander's warriors in 327 BC and finally came the most creative period of Gandhara. Later Taxila became a renowned centre of learning, philosophy, art and religion, Julian being a centre of excellence of that age. Pilgrims and travelers were attracted to it from as far away as China and Greece.

City of Hassan Abdal

Back on the GT road you reach Hassan Abdal, a pleasant little town particularly associated with Sikhs shrine of Punja Sahib. Sikh pilgrims visit the shrine, from India and all over the world, every year. Hassan Abdal has been a holy place for various religious groups throughout the ages largely because of its springs. In the 7th century Chinese Buddhist pilgrim Hsuan Tsand reported that the place was sacred to the Buddhists and that there was a tank dedicated to a serpent King, Elapatra. Now-a-days it has become one of the largest industrial zones of Pakistan.
Swedish College Campus

The college campus is located on the main G.T. Road, opposite Lala Rukh, on the outskirts of Wah Cantt. Frequent public transport provides an easy access to the College.

The purpose-built campus is spread over an area of 25 kanals with beautiful lawns, an approximate covered area of 65,000 square feet and a garden with exotic imported ornamental trees and flowers.

The main building has spacious ventilated classrooms and well-equipped laboratories. There are sufficient number of workstations which provide students the opportunity of hands-on experience.

Cafeteria

A cafeteria is established with sufficient seating space, where hygienic food, snacks, tea and beverages are available. The menu of the cafeteria is being run on the desires of students and faculty of the college.
Academic Programs

The Swedish College of Engineering and Technology (SCET) currently offers four years B.Sc. degree program in the following disciplines:

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

The college is affiliated with the University of Engineering and Technology Taxila. Academic rules and regulations of UET with regard to academic matters and examination are strictly followed. The academic system at the college is the semester system. There are eight semesters for four years B.Sc. Engineering program in every degree awarding discipline.
DEPARTMENT OF CIVIL ENGINEERING

Head of Department
Engr. Mamoon Riaz

Professors

Dr. M. Sharif Bhatti
BSc Engg (UET, Lahore)
MSc Engg (Univ College, London)
PhD (University of London)

Dr. Attaullah Shah
BSc Engg (UET, Peshawar)
MSc Engg (UET, Peshawar)
PhD (UET, Taxila)
Visiting Faculty

Assistant Professors

Nasir-ud-din
BSc Engg (UET, Taxila)
MSc Engg (UET, Taxila)

Nasir Mehmood
BSc Engg (UET, Taxila)
MSc Engg (METU, Ankara)

Abdul Shakoor
BSc Engg (UET, Peshawar)
MSc Engg (UET, Peshawar)
PhD* (UET, Taxila)

Mamoon Riaz
BSc Engg (CECOS Univ, Peshawar)
MSc Structural Engg (Coventry Univ, UK)

Lecturers

Shafiq-ur-Rahman
BSc Engg (UET, Taxila)
MSc Engg (UET, Taxila)

Arslan Zafar
BSc Engg (UET, Taxila)
MSc Engg (UET, Taxila)

Khalid Mehmood
BSc Engg(UET, Taxila)
MSc Engg(CECOS, Peshawar)

Yasir Rasheed
BSc Engg (CECOS, Peshawar)
MSc Engg* (CECOS, Peshawar)

Zafar Ali Shah
BSc Engg (UET, Taxila)
MSc Engg (NUST)
### Junior. Lecturers

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
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<tr>
<td>Sohail Saleh</td>
<td>BSc Engg (UET, Taxila)</td>
</tr>
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<td>MSc Engg* (NUST)</td>
</tr>
<tr>
<td>Aamir Shahzad</td>
<td>BSc Engg (UET, Lahore)</td>
</tr>
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<td>MSc Engg* (NUST)</td>
</tr>
<tr>
<td>Sohaib Naseer</td>
<td>BSc Engg (UET, Taxila)</td>
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<td>Tayyab Zafar</td>
<td>BSc Engg (UET, Taxila)</td>
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<td>Muhammad Junaid</td>
<td>BSc Engg (UET, Peshawar)</td>
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<td>Zeehan Haider</td>
<td>BSc Engg (UET, Taxila)</td>
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### Lab Engineers

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<tr>
<td>Muhammad Yaseen</td>
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<td>MSc Engg* (CUST)</td>
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<td>Muhammad Umar</td>
<td>BSc Engg (UET, Taxila)</td>
</tr>
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<td></td>
<td>MSc Engg* (MC Risalpur)</td>
</tr>
<tr>
<td>Saddam Ullah</td>
<td>BSc Engg (UET, Taxila)</td>
</tr>
<tr>
<td>Waseem Iqbal Cheema</td>
<td>BSc Engg (UET, Taxila)</td>
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(*)& MSc/PhD in Progress
**The Department**

Civil Engineers cater for the national needs of buildings, highways, dams, bridges, irrigation network and water supply systems, and are the world's largest users of building materials. Department of Civil Engineering has been established to disseminate civil engineering education. Plans are also underway to establish the Advanced Centers of Research in this field.

**Courses of Study**

The Department offers full-time course of four years duration leading to the degree of B.Sc. in Civil Engineering. At the undergraduate level, emphasis is laid on the fundamental concepts and principles constituting the basis of Civil Engineering practice. The students are assigned projects involving design, construction and laboratory investigation for self-directed execution. The classroom and laboratory work is supplemented by 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 following well-equipped laboratories to meet the academic requirements of students and researchers.

1. Engineering Mechanics Lab/Structure Lab
2. Surveying Lab
3. Strength of Materials Lab
4. Computing/CAD Lab
5. Soil Mechanics Lab
6. Fluid Mechanics Lab
7. Concrete Lab
8. Transportation Lab
9. Environmental Lab
10. Drawing Hall
11. Hydraulics & Irrigation Lab
## Courses Under Semester System
### BSc Civil Engineering

#### 1st Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Title</th>
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<th>Part II</th>
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<td>CE-101</td>
<td>Civil Engineering Drawing</td>
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<td>CE-102</td>
<td>Engineering Mechanics</td>
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<td>CE-103</td>
<td>Engineering Geology</td>
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<td>CE-104</td>
<td>Surveying-I</td>
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<td>MA-105</td>
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**Semester Total for Part-I & II: 16**

#### 2nd Semester

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<td>CE-107</td>
<td>Civil Engineering Materials</td>
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<td>CE-108</td>
<td>Communication Skills &amp; Technical Report Writing</td>
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<td>MA-109</td>
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**Semester Total for Part-I & II: 16**

**Total for 1st Year: 32**

#### 3rd Semester

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<tr>
<td>CE-201</td>
<td>Fluid Mechanics-I</td>
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<tr>
<td>CE-202</td>
<td>Properties of Concrete</td>
<td>2</td>
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<tr>
<td>CE-203</td>
<td>Civil Engineering Practice</td>
<td>2</td>
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<tr>
<td>MA-204</td>
<td>Mathematics and Computer Programming</td>
<td>2</td>
<td>2</td>
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<td>HU-205</td>
<td>Islamic Studies</td>
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**Semester Total for Part-I & II: 15**

#### 4th Semester

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<td>CE-206</td>
<td>Theory of Structures-I</td>
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<td>CE-207</td>
<td>Strength of Materials-I</td>
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<td>CE-208</td>
<td>Soil Mechanics-I</td>
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<tr>
<td>CE-209</td>
<td>Drawing, Estimation &amp; Construction</td>
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<td>HU-210</td>
<td>Computer Applications</td>
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**Semester Total for Part-I & II: 18**

**Total for 2nd Year: 33**
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<td>CE-301</td>
<td>Theory of Structures-II</td>
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<td>CE-302</td>
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<td>Soil Mechanics-II</td>
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<td>CE-304</td>
<td>Construction Planning &amp; Management</td>
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<td>Hydrology and Water Resources</td>
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<td>CE-306</td>
<td>Environmental Engineering-I</td>
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<td>CE-307</td>
<td>Reinforced Concrete-I</td>
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<td>CE-308</td>
<td>Design of Steel Structures</td>
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<td>Fluid Mechanics-II</td>
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<td>CE-401</td>
<td>Environmental Engineering-II</td>
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<td>CE-402</td>
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<td>CE-403</td>
<td>Hydraulics Engineering</td>
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<td>Irrigation Engineering</td>
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<td>Design of Structures</td>
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<td>CE-410</td>
<td>Computer Aided Analysis &amp; Design</td>
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DEPARTMENT OF ELECTRICAL ENGINEERING

Head of Department

Prof. Dr. Umar Farooq

Professors

Prof. Dr. Umar Farooq
BSc Engg (UET Lahore)
MSc Engg (Uni of Utsunomiya, Japan)
PhD (UET, Taxila)

Prof. Dr. Noor Muhammad
BSc Engg (MUET)
MSc Engg (GIKI)
PhD (MAJU)

Assistant Professors

Fayyaz Ahmed
BSc Engg (IIU, Islamabad)
MSc Engg (IIU, Islamabad)
PhD** (CIIT, Wah)

Muhammad Asif
BSc Engg (CECOS)
MSc Engg (CECOS)

Waqas Mehmood
BSc Engg (FUUAST)
MSc Engg (IIU, Islamabad)
PhD** (UET, Taxila)

Lecturers

Muhammad Ali
BSc Engg (EME, NUST)
MSc Engg (MCS, NUST)

Muhammad Ejaz
BSc Engg (UET, Lahore)
MSc Engg (CIIT, Wah)

M. Adnan Shahzad
BSc Engg (CIIT, Abbotabad)
MSc Engg (CIIT, Wah)

Junior Lecturers

Hamid Ali
BSc Engg (CIIT, Abbotabad)
MSc Engg* (CIIT, Wah)

Tarique Aziz
BSc Engg (UET, Nawabshah)
MSc Engg (CIIT, Wah)

Lab Engineers

Rashid Jamil Satti
BSc Engg (UET, Taxila)
MSc Engg* (CIIT, Wah)

Naveed Ahmad
BSc Engg (UET, Taxila)
MSc Engg* (CIIT, Wah)

Hafiz. M. Rukham
BSc Engg (UET, Taxila)

Ahmed Malik
BSc Engg (UET, Taxila)

Ali Tariq
BSc Engg (UET, Taxila)

Jamshed Ahmed
BSc Engg (UET, Taxila)

(*) MSc Engg in Progress, (**) PhD in Progress
The Department

The educational objectives of the undergraduate program of the Department of Electrical Engineering are to develop professional skills in students and to prepare them for immediate employment in the field of 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 career paths in large companies concerned with communications, electronics, industrial control & automation, computers and electrical energy.

The Department offers full-time course of four years (i.e., eight semesters) duration leading to the degree of B.Sc. in Electrical Engineering. It has a combination of young and experienced faculty. Department has two PhDs having experiences ranging from eight to Thirty Five years in academia and industry.

The department has well-equipped laboratories for undergraduate classes and the equipment is being upgraded on continuous basis.

Courses of Study

All courses have a core set of subjects, allowing students to specialize further in electrical subjects. Electrical Engineering Course content includes analogue, digital and solid-state electronics, digital control systems and electromagnetism, with in-depth study of mathematics and computers in the context of electrical engineering. Practical skills in designing, making and testing the electrical systems 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. The course is accredited by the Pakistan Engineering Council as satisfying the academic requirements for Professional Engineer (PE) status.

Laboratories

The Department has a number of established labs that cover all the different domains of electrical engineering. It includes “foundation engineering” labs such as Linear Circuit Analysis, Basic Electrical Workshop, Electronic Circuit Design & Devices, Engineering Drawing, Digital Logic Design and Microprocessor Systems. Some Core (i.e., breadth and depth) Labs include Electrical Machine, Instrumentation & Measurement, Linear Control Systems and Power Systems (Generation, Distribution, Transmission and Protection, Operation & Control) Lab. Further, in the domain of computing

Department has dedicated established lab where number of course-labs are performed. Most of
our labs such as Basic electrical Workshop, Linear Circuit Analysis, Electronics, Measurement & Instrumentation are equipped with respective trainers, on which, hardware experiments (based on the components) are performed by the students. Whereas in Labs such as Linear control Systems, Power Systems and Digital Logic Design, both state-of-the-art hardware and software are provided to students to have strong practical experience.

The Department has the following Labs:

1. Linear Circuit Analysis
2. Basic Electrical Workshop
3. Electronics
4. Digital Logic Design
5. Micro Computer System
7. Instruments & Measurement
8. Linear Control Systems
9. Power Systems
10. Computer
11. Final Year Project
12. Power Generation
13. Signal & System
14. Communication Systems
# Courses of Study for Undergraduate Program
## BSc Electrical Engineering (Power/Communication)

### 1st Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Part I</th>
<th>Part II</th>
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<tbody>
<tr>
<td>EE-111</td>
<td>Linear Circuit Analysis</td>
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<td>3</td>
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<tr>
<td>EE-112</td>
<td>Engineering Drawing</td>
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<tr>
<td>NS-113</td>
<td>Calculus and Analytic Geometry</td>
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<tr>
<td>CS-114</td>
<td>Introduction to Programming</td>
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<tr>
<td>NS-115</td>
<td>Applied Physics</td>
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<tr>
<td>HU-116</td>
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<td>EE-121</td>
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<tr>
<td>EE-122</td>
<td>Electronic Devices &amp; Circuits</td>
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<tr>
<td>EE-123</td>
<td>Workshop Practice</td>
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<td>CS-124</td>
<td>Data Structures and Algorithms</td>
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<td>NS-125</td>
<td>Linear Algebra</td>
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<tr>
<td>EE-211</td>
<td>Microprocessor Systems</td>
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<td>EE-212</td>
<td>Electrical Machines</td>
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<td>HU-213</td>
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<td>Differential Equations</td>
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<td>IDE-215</td>
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<td>EE-221</td>
<td>Electrical Network Analysis</td>
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<tr>
<td>EE-222</td>
<td>Probability Methods in Engineering</td>
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<tr>
<td>NS-223</td>
<td>Multivariable Calculus</td>
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<td>NS-224</td>
<td>Numerical Analysis</td>
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<tr>
<td>EE-311</td>
<td>Signals and Systems</td>
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<td>EE-312 / EE-313</td>
<td>Power Distribution and Utilization / Computer Communication Networks</td>
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<td>EE-314</td>
<td>Electromagnetic Field Theory</td>
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<td>EE-315 / EE-316</td>
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<tr>
<td>EE-321</td>
<td>Linear Control Systems</td>
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<td>EE-322</td>
<td>Communication Systems</td>
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<td>MS-323</td>
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### 7th Semester

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<td>MS-411</td>
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<td>Critical Thinking</td>
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<td>EE-41##</td>
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### 8th Semester

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<td>HU-421</td>
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<td>EE-422</td>
<td>Senior Design Project-II</td>
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<td>EE-42##</td>
<td>Depth Elective-IV</td>
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<td>EE-42###</td>
<td>Depth Elective-V</td>
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List of Electives

Power (EE #3#)

A. Power Generation
B. Power Transmission
C. Power System Protection
D. Power System Planning
E. Power System Analysis
F. Power system Economics and Management
G. Power System Operation and Control
H. Artificial Intelligence Tools
I. Fundamentals of High Voltage Engineering
J. Electrical Estimation Installation and Planning
K. Distributed Generation
L. Alternate Energy Systems
M. Energy Storage Systems
N. Automotive Electrical Systems
O. Hybrid Energy Systems
P. Illumination Engineering
Q. Electrical Machine Modeling
R. Electrical Traction System
S. Digital Signal Processing

Communication (EE #4#)

A. Optical Fiber Communication
B. Satellite Communication
C. Information Theory & Coding
D. Wireless Communication
E. Digital Communication
F. Cellular Mobile Communication Systems
G. Multi Media Communication
H. RF Communication System Design
I. Microwave Communication System Design
J. Microwave Devices and Systems
K. Microwave Transmission Lines & Wave guides
L. Microwave Integrated Circuit Design
M. RF Circuit Design
N. Radar Systems
O. Broad Band Digital Networks
P. Radiating systems and Antennas
Q. RF Transceiver Design
R. Communication Electronics
S. Communication System Design & Performance Analysis
T. Introduction to Wavelets
U. Digital Signal Processing

Note:

I. Choice of Electives in 6th, 7th & 8th semester will be dependent on Elective chosen in 5th semester. No student can change the specialization area after choosing any of two areas above in his 5th Semester.

II. The Elective courses offered by the Department in a semester can be changed depending on the availability of teachers and related facilities and will be notified one week before the start of the semester.
Department of Mechanical Engineering

Head of Department
Dr. Liaquat Ali Azhar Najmi

Professor

Dr. Rafi Javed Qureshi
BSc Engg (UET, Lahore)
MSc Engg (Georgia Tech, USA)
PhD (UET, Taxila)

Assistant Professor

Dr. Liaquat Ali Azhar Najmi
BSc Engg (UET, Lahore)
MSc Engg (GW Univ, USA)
PhD (RPI, Troy, USA)

Lecturers

Awais Hamza
BSc Engg (UCET, Mirpur)
MSc Engg (UET, Lahore)
PhD Engg* (UET, Taxila)

Asif Khan
BSc Engg (WEC, Wah)
MSc Engg (UET Taxila)
PhD Engg* (UET, Taxila)

Zeeshan Anjum
BSc Engg (AASUCET, Mirpur)
MSc Engg (UET, Taxila)
PhD Engg* (UET, Taxila)

Hassan Farooq
BSc Engg (UET, Lahore)
MSc Engg (UET, Taxila)
PhD Engg* (UET, Taxila)

Ashiq Hussain
BSc Engg (UET, Lahore)
MSc Engg (UET, Lahore)
MSc Ind. Engg (UN SW, Australia)

Abdur Rafeh
BSc Engg (UET, Peshawar)
MSc Engg (UET, Lahore)
Ghulam Asghar  
BSc Ind. Engg (DCET, Karachi)  
MSc Ind. Engg (UET, Taxila)

Adnan Raza Khan  
BSc Engg (AASUCET, Mirpur)  
MSc Engg (UET, Taxila)

Jr. Lecturers

Fahim Tahir Keani  
BSc Engg (UCET, Mirpur)  
MSc Engg (MUST, Mirpur(AK))

Syed Khawar Hussain Shah  
BSc Engg (UET, Taxila)  
MSc Engg* (NUST)

Lab Engineers

Muhammad Nawaz Khan  
BSc Engg (UET, Lahore)  
MSc Engg* (UET, Taxila)

Ali Fahad  
BSc Engg (UET, Taxila)

Syed Dildar Haider Naqvi  
BSc Engg (UET, Taxila)

Shah Nawaz Khan  
BSc Engg (SCET-UET, Taxila)

Idrees Azeem Rizwan  
BSc Engg (UET, Taxila)  
MSc Engg* (UET, Taxila)

Muhammad Nouman  
BSc Engg(UET, Taxila)  
MSc Engg*(UET, Taxila)

(*) M.Sc. Engg in Progress
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 machines that are used for manufacturing or production equipment. The department is offering a four years degree program leading to B.Sc. in Mechanical Engineering.

Courses of Study

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

- Engineering Graphics and CAD
- Thermo-Fluids Engineering
- Applied Mechanics and Design
- Industrial & Manufacturing Engg
- CAD/CAM
- Engineering Management
- I.C. Engines
- HVAC

**From Design to Manufacturing**

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. SCET 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 and 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.

**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 sector organizations:

- Engineering Mechanics Lab
- Mechanics of Materials Lab
- Mechanics of Machines Lab
- Machine Shop/CNC Lab
- Refrigeration & A/C Lab
- Thermodynamics Lab
- Fluid Mechanics Lab
- Measurement/Instrumentation Lab
- Drawing Hall
Measurement and Instrumentation Lab has been recently upgraded with ELVIS instrumentation suite comprising Lab View software for data acquisition and analysis. Mechanics of Materials Lab now houses a 10-ton Universal Testing Machine. An IC Engine test bed has been added with overhead single cam (OHV), 150 cc, naturally aspirated, Air cooled gasoline and diesel engine with sophisticated and robust control unit. Similarly, A 2 axis CNC lathe machine has been added in Machine Shop equipped with direct numerical control.

Labs : New Additions
Thermodynamics Lab has been equipped with a new steam power plant training unit. On this equipment students can perform all experiments related to power plants and observe/discuss all the crucial results regarding the stream of power generation. Compressor training unit has also been introduced for better understanding of students. Mechanics of materials Lab has been enhanced with fatigue measuring machine and creep testing unit.

Heat and mass transfer lab has been equipped with a new heat conduction unit, which includes both radial and linear wall heat conduction, both bedded in one unit. Heat exchangers of different types like plate type, shell and tube and spiral are also added to the equipment. Refrigeration lab equipment is consolidated with a trainer unit of induced draft cooling tower. Static and dynamic mass balancing of shaft equipment is added Mechanics of machines lab. Hydraulics lab has been setup and furnished by enough equipment. Most important equipment related to mechanical engineering equipment includes reaction and impulse turbine. The setup is equipped with
generators for verification of power produced and relates it to the water head available.

**Metallurgical Microscope** has been added to the Engineering Materials Lab, whereby, now the students can observe material samples for their lattice structure, roughness and also observe the material structure changes before and after performing a specific process like, fracture and heat treatment. The microscope is equipped with a digital camera to capture the sample images for measurement and printing for referring into their reports. The digital zooming capability up to 1000X along with analysis software is also available.
### Courses Under Semester System
#### BSc Mechanical Engineering

<table>
<thead>
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<th>Course Title</th>
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<tr>
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<td></td>
<td>Part I</td>
<td>Part II</td>
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<tr>
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<td>Computer System &amp; Programming</td>
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<td>Applied Physics</td>
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<td>Engineering Drawing &amp; Graphics</td>
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<td></td>
<td>17</td>
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<tr>
<td>2nd</td>
<td>IS-101</td>
<td>Islamic Studies / Ethics</td>
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<tr>
<td>2nd</td>
<td>EE-101</td>
<td>Electrical Engineering</td>
<td>2</td>
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<tr>
<td>2nd</td>
<td>HS-102</td>
<td>Communication Skills</td>
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<td>GS-104</td>
<td>Linear Algebra and Ordinary Differential Equations</td>
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<td>Workshop Practice</td>
<td>1</td>
<td>1</td>
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<tr>
<td>2nd</td>
<td>ME-113</td>
<td>Engineering Statics</td>
<td>2</td>
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<tr>
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<td>ME-121</td>
<td>Thermodynamics-I</td>
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<td>Pakistan Studies</td>
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<td>3rd</td>
<td>ME-211</td>
<td>Engineering Dynamics</td>
<td>2</td>
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<tr>
<td>3rd</td>
<td>ME-212</td>
<td>Mechanics of Materials-I</td>
<td>3</td>
<td>1</td>
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<tr>
<td>3rd</td>
<td>ME-213</td>
<td>Engineering Materials</td>
<td>2</td>
<td>1</td>
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<tr>
<td>3rd</td>
<td>ME-221</td>
<td>Thermodynamics-II</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>ME-222</td>
<td>Fluid Mechanics-I</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
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<td>3rd</td>
<td>Total:</td>
<td></td>
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<td>3rd</td>
<td>Semester Total for Part-I &amp; II</td>
<td></td>
<td></td>
<td>19</td>
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### 4th Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE-201</td>
<td>Electronics Engineering</td>
<td>2</td>
</tr>
<tr>
<td>GS-201</td>
<td>Complex Variables and Transforms</td>
<td>2</td>
</tr>
<tr>
<td>ME-214</td>
<td>Machine Design &amp; CAD-I</td>
<td>2</td>
</tr>
<tr>
<td>ME-215</td>
<td>Mechanics of Materials-II</td>
<td>3</td>
</tr>
<tr>
<td>ME-223</td>
<td>Fluid Mechanics-II</td>
<td>3</td>
</tr>
<tr>
<td>GS-202</td>
<td>Social Sciences</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

| Semester Total for Part-I & II | 18 |
| Total for Second Year          | 37 |

### 5th Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS-301</td>
<td>Technical Report Writing and Presentation Skills</td>
<td>2</td>
</tr>
<tr>
<td>GS-301</td>
<td>Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ME-311</td>
<td>Machine Design &amp; CAD-II</td>
<td>3</td>
</tr>
<tr>
<td>ME-312</td>
<td>Precision Engineering &amp; Metrology</td>
<td>2</td>
</tr>
<tr>
<td>ME-313</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

| Semester Total for Part-I & II | 16 |

### 6th Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>GS-302</td>
<td>Applied Statistics</td>
<td>2</td>
</tr>
<tr>
<td>ME-314</td>
<td>Control Engineering</td>
<td>2</td>
</tr>
<tr>
<td>ME-315</td>
<td>Mechanics of Machines</td>
<td>3</td>
</tr>
<tr>
<td>ME-321</td>
<td>Power Plants</td>
<td>2</td>
</tr>
<tr>
<td>ME-322</td>
<td>Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

| Semester Total for Part-I & I | 16 |

| Total for Third Year         | 32 |
### 7th Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Part I</td>
</tr>
<tr>
<td>MS-401</td>
<td>Engineering Economics</td>
<td>2</td>
</tr>
<tr>
<td>ME-411</td>
<td>Mechanical Vibrations</td>
<td>3</td>
</tr>
<tr>
<td>ME-421</td>
<td>Internal Combustion Engines</td>
<td>2</td>
</tr>
<tr>
<td>ME-422</td>
<td>Refrigeration and Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>ME-499</td>
<td>Design Project</td>
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<tr>
<td></td>
<td><strong>Total:</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Semester Total for Part I &amp; II</strong></td>
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</tr>
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</table>

### 8th Semester

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Part I</td>
</tr>
<tr>
<td>ME-412</td>
<td>Advanced Manufacturing Systems</td>
<td>2</td>
</tr>
<tr>
<td>ME-413</td>
<td>Finite Element Methods</td>
<td>2</td>
</tr>
<tr>
<td>ME-4XY</td>
<td>Technical Elective Course</td>
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</tr>
<tr>
<td>ME-4XY</td>
<td>Management Electives</td>
<td>2</td>
</tr>
<tr>
<td>ME-499</td>
<td>Design Project</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong></td>
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</tr>
<tr>
<td></td>
<td><strong>Semester Total for Part I &amp; II</strong></td>
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<td><strong>Total for Final Year</strong></td>
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</tr>
<tr>
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<td><strong>Grand Total for Four Years</strong></td>
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</table>

### List of Elective Courses

**Technical Electives: (ME-4XY)**

- a. ME-414 Maintenance Engineering
- b. ME-415 Introduction to Mechatronics
- c. ME-416 Tribology
- d. ME-417 Mechanical Engineering Design Analysis
- e. ME-423 Renewable Energy Technology
- f. ME-424 Gas Dynamics
- g. ME-425 Aerodynamics
- h. ME-426 Computational Fluid Dynamics (CFD)
- i. ME-427 Nuclear Engineering
- j. ME-428 Stress Analysis

**Management Electives: (ME-4XY)**

- a. MS-402 Operations Management
- b. MS-403 Total Quality Management
- c. MS-404 Project Management
- d. MS-405 Operations Research
- e. MS-406 Engineering Law
- f. MS-407 Business and Entrepreneurship
- g. MS-408 Safety Health and Environment
- h. MS-409 Environment and Health
DEPARTMENT OF BASIC SCIENCES & HUMANITIES

Head of Department

Dr. M. Akram Javaid

Professor

Dr. M. Akram Javaid
(Mathematics)
BSc (PU), M.Sc. (PU)
PGD (Southampton), Ph.D (UK)
IMA (UK), PMS (PU).

Assistant Professor

Sajid Ahmed Ghauri

M.Ed., M.Sc. (AIOU, Islamabad)
M.Phil (RIU, Islamabad) (Mathematics)

Lecturers

Jabran Rashid
B.Ed, M.Sc. (HITEC Taxila)
M.Phil (in Progress)

Ghulam Mubasher
(Linguistics & Literature)
B.Ed., M.A. (PU Lahore)
M.Phil (in Progress)

Fazl-ur-Rehman
(English)
M.A (Peshawar University)

Ali Murad
M.Sc. Electronics (QAU)
M. Phil Physics (In Progress)

Muhammad Bilal
MSc (UOW)
M.Phil (in progress)

Abdullah Malik
(Islamiat & Pak Studies)
M.A Arabic (Federal Under University)
M.A Islamiat (Peshawar University)
M.Phil (in progress)

Visiting Lecturers

Waqar Ali
M.A. Pol Sci, LLB (PU, Lahore)
THE DEPARTMENT plays a pivotal role by supporting all technologies and disciplines of college. The bridging nature of department enables it to coordinate with all other departments. The Department realizes its responsibility to ensure long term vitality of social sciences, that it should foster the development of scientists as future scholars, teachers, researchers and organizational leaders. The department offers courses in Mathematics, Physics, Chemistry, Engineering Statistics, Islamic Studies, English and Pakistan Studies.

No physical body can be formed without the geometry of Mathematics. All science and Engineering requires mathematics. The knowledge of mathematical things is almost innate in us. This is the easiest of sciences, a fact which is obvious in that no one’s brain rejects it, because 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 College have courses in Applied Mathematics, Probability and Engineering Statistics and Numerical Analysis.

Physics plays a pivotal role in Electrical Engineering. Sound Background knowledge of physics is sufficient and necessary condition for engineering. Courses of physics are offered to Electrical and Mechanical Engineering to make their basic foundation of the subject. In today's society chemistry is greatly involved in the world of engineering. Whether it is aerospace, mechanical, environmental or other engineering fields the makeup of substances is always a key factor which must be known. Engineering today has morphed from only dealing with the physical aspect of the field into the theory behind the field. All engineering fields have unique bonds with the chemistry world. Courses of chemistry are offered to Mechanical Engineering to make their basic foundation of the subject.
Communication is the dire need of professional engineers and English is international language. Adequate knowledge of English is invertible to cope up the current challenges of modern world. Therefore, several courses related to English Language and communication skills are offered to all engineering departments which will help the engineers in their work space and professional correspondence. The ultimate need of modern world communication is facilitated through professional courses.

A good Engineer must be a good Pakistani & Muslim. Therefore, Courses of Islamic Studies & Pak Studies are also taught prudently to the students of various engineering fields. The 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.
STUDENTS
FACILITIES & SERVICES
1. College Library

The Library of the College plays a vital role in dissemination of knowledge, teaching, research, and extension services. It has a seating capacity for about 80 readers, which provides congenial environment for study. The reading hall remains open from 8:00 am to 5:00 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 and a big reserve collection of text and general technical books.

The Library has more than 9000 books 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.

2. Directorate of Sports

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

The College management has a plan to construct its own hostels for the male and female students. The facility of hostel has been provided to the students. The students are required to abide by the rules and regulations governing residence in the college arranged hired accommodation and are encouraged to develop community life conducive to healthy growth of the social aspects of their personalities.

4. **SCET Adventure Club (SCETAC)**

The idea for having an adventure club is to provide an opportunity to the students to escape from the daily routine of the busy campus life and be able to enjoy the wilderness and natural resources of the mother land's nature. The main objective of the adventure club is to organize and promote hiking, mountaineering, jogging, boating, excursion trips and other related activities. Efforts will be made to affiliate the club with the Adventure Foundation of Pakistan and the Alpine Club of Pakistan. First Aid Training will also be arranged for the members of the Adventure Club.

5. **Estate Office**

The college Campus 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.

The office looks after security, sanitation, maintenance of lawns and gardens at the campus. It has a large squad of uniformed watchmen who guard the college buildings and property. Its sanitation staff keeps the buildings, roads, lawns, and other spaces clean and tidy.

6. **Admission/Registration Office:**

This section deals with matters relating to admission, registration and placement of students at undergraduate level and verification of documents, migration cases and miscellaneous certificates.

7. **Quality Enhancement Cell (QEC)**

QEC is responsible to develop procedures as per the requirements of HEC as follows:

- Approval of new programs of Quality Control & Management.
- Annual monitoring & evaluation including program monitoring, faculty monitoring and student’s perception.
- Departmental review, Institutional assessment.
- Program specifications.
- Qualification Framework regarding ‘Affiliation’ with UET, Taxila and ‘Verification’ of student degrees from concerned B.I.S.Es.
- Manage coordination with UET, Taxila
Registration, Teaching & Examinations
Registration, Teaching and Examinations

As the College is affiliated with U.E.T, Taxila, so regulations relating to Semester System of Teaching and Examinations for Bachelor Degree Programs of the University of Engineering and Technology, Taxila shall be implemented.

a. Short Title, Commencement and Applicability:
   i. These Regulations shall be called “The Swedish College of Engineering and Technology (SCET) Wah Cantt. Regulations Relating to Semester System of Teaching and Examinations for Bachelor Degree Programs”.
   ii. These shall come into force with immediate effect from undergraduate degree Programs of the SCET for the Entry-2016 and onwards.

b. Definitions:
   i. “University” means the University of Engineering and Technology (UET) Taxila.
   ii. “Vice Chancellor” means Vice Chancellor of the University of Engineering & Technology (UET), Taxila.
   iii. “College” means the Swedish College of Engineering and Technology (SCET), Wah Cantt.
   iv. “Principal” means the Principal of College.
   v. “Academic Year” means a year normally consisting of two regular (i.e. Fall and Spring) semesters of 18-20 weeks duration each and one optional (i.e. Summer) semester of 9-10 weeks duration inclusive of examinations, internships or any other academic activity.
   vi. “Board of Undergraduate Studies” means the Board of Undergraduate Studies of the concerned Academic Department of the College.
   vii. “Candidate” means a student who intends to appear in an Examination.
   viii. “Casual Student” means a student who is not on the rolls of the College after passing out his session i.e. after completion of his minimum degree duration period but is otherwise eligible to take the courses and to appear in the examination. He shall, however, be governed by the College Examinations Rules & Regulations as well as Students Discipline Rules.
   ix. “HoD” means the Head of the concerned Academic Department of the College.
   x. “Controller of Examinations” means the Incharge of Examinations of the College.
   xi. “Contact Hours” means the total number of lectures, tutorials and laboratory hours per week.
   xii. “Course Teacher” means a person appointed by the competent authority, who teaches a course and then evaluates the students as per College rules and procedures.
   xiii. “Credit Hour” means 1 hour of theory lecture or 3 hours of practical work in a course per week for the semester.
   xiv. “Cumulative Grade Point Average (CGPA)” means the credit-hour weighted average of the Grade Points earned for all the courses in all the semesters attended.
   xv. “Department” means an Academic Department of the College.
   xvi. “End-Semester Examination” means the examination to be held at the end of each semester on such dates as the College may determine.
xvii. "Faculty" means the concerned Faculty of the College.

xviii. "Grade" means the letter grade earned by a student in a course depending on his performance in that course.

xix. "Grade Points" means the points (numerical value) associated with each letter grade.

xx. "Mid Semester Examination" means the examination to be held after eight (08) weeks of teaching in case of regular semesters and after four (04) weeks of teaching in case of optional semester on such dates as the College may determine.

xxi. "Regular Student" means a bonfire student while enrolled during the minimum duration of a degree program of this College and who does not maintain admission simultaneously in any other degree/diploma program of this College or any other institution.

xxii. "Semester" means a declared duration covering 18-20 weeks of teaching in case of regular semester and 9-10 weeks of teaching in case of optional semester including examinations.

xxiii. "Semester Grade Point Average (SGPA)" means the credit-hour weighted average of the Grade Points earned for all the courses in a semester.

xxiv. "Subject" means a course of studies as prescribed in the detailed syllabi approved by the competent authority, whose successful completion shall be the requirement of the Degree.

xxv. "External Examiner" means a person holding suitable qualifications in relevant discipline who is neither a teacher in the University nor has taught the subject to the class/section during the semester for which the examination is being held.

xxvi. "Internal Examiner" means the teacher/person appointed by the Competent Authority who has been teaching the subject to the class/section during the semester for which the examination is being conducted.

xxvii. "Neutral Examiner" means a teacher of the University holding suitable qualification in the relevant discipline who has not taught the subject to the class/section during the semester for which the examination is being held.

xxviii. "Practical Part" means the Laboratory part of the subject as prescribed in the detailed syllabi approved by the competent authority, whose successful completion shall be the requirement of the Degree.

xxix. "Theory Part" means the theoretical part of the subject as prescribed in the detailed syllabi approved by the competent authority, whose successful completion shall be the requirement of the Degree.

c. Explanations:

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

d. Academic Programs:

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

1) Civil Engineering
2) Electrical Engineering
3) Mechanical Engineering
Academic Calendar:

The Bachelor's Degree Program shall be spread over four academic years (i.e. minimum Eight Regular Semesters). Each academic year shall consist of two regular teaching semesters i.e.; Fall and Spring and an optional Summer semester.

Academic Schedule

The Director Academics shall notify academic schedule of complete year for its Fall, Spring and Summer semesters for the convenience of students and faculty members mentioning the following:

1) Semester registration date
2) Semester starting date
3) Mid semester examination week
4) Semester termination date
5) End-Semester examination weeks

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

PART-I. GENERAL

a. Duration of the Degree Programme:
The minimum duration of the degree programme shall be four academic years (i.e. Eight Regular Semesters). While the maximum duration allowed is seven years. Notwithstanding anything to the contrary contained in these regulations, no candidate shall be admitted to an examination after the expiry of seven academic years. This period shall be counted from the date of his registration to the first semester in the University. Provided that in case a candidate is admitted directly to a higher class (by migration or transfer of credits), he shall not be admitted to an examination after the expiry of the remaining period for the session to which he is admitted.

b. Credit Hours for the Award of Degree:
The total number of credit hours required for the award of degree shall be 130-136 while the number of credit hours per semester shall be 15-18 (exclusive of additional courses). The courses of study, the credit hours allocated to each subject, the total credit hours offered in a semester and the detailed syllabi shall be as approved by the competent authority.

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

d. Medium of Instructions:
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.

e. Repeating and Improvement of Courses:
An academically deficient regular student shall be allowed to repeat/ improve the courses during the summer semester if offered as well as during the regular semesters whenever the teaching and examination schedule makes it possible for him to register himself for the courses and to take the mid and end semester examination. While the academically deficient casual student shall be allowed to repeat/ improve the courses either
during summer semester or whenever the teaching and examination schedule makes it possible for him to register himself for the courses and to take the mid and end semester examination. In case of repetition/ improvement of a course the student shall have to pay course registration and examination fee as prescribed by the College. It shall be noted that a student can only improve a grade lower than C- (i.e. D & F).

f. Registration of Additional and Summer Semester Courses:
An academically deficient student (i.e. Regular and Casual) shall be allowed to get himself registered for two courses at maximum irrespective of the credit hours in a summer semester. An academically deficient regular student will also be allowed to get himself registered for two additional courses at maximum with lower semesters if offered with his regular semester. Whereas an academically deficient casual student will also be allowed to get himself registered for five courses at maximum with lower semesters if offered in regular semesters.

g. Summer Semester:
    i. Summer semester shall be primarily for those students who want to repeat / improve certain courses to make up for their academic deficiencies.
    ii. An academically deficient student (i.e. Regular and Casual) shall be allowed to get himself registered for two courses at maximum irrespective of the credit hours in a summer semester.
    iii. The minimum strength to offer a course in Summer Semester will be Five (05) students. However the HoD of the concerned Academic Department may be empowered to decide the number of students to be registered in the courses offered in summer semester instead of the condition of minimum five (05) students for final year only.
    iv. Teaching Shall be mandatory for all offered courses in summer semester.
    v. The contact hours during the summer semester shall be doubled to ensure that the course is completely taught in a summer semester with half of the duration compared to regular (Fall or Spring) semester.
    vi. Letter Grade awarded during summer semester shall not be more than a “B” grade. Also no “I” grade will be awarded in summer semester.
    vii. The registration, attendance, conduct of examination and result display policies etc. during the summer semester shall be same as in regular semester.
    viii. It shall be in the best interest of the students to clear their failed courses or the courses where they want to improve their grades by repeating the courses as early as possible. The College will not be responsible to offer failed or improvement courses in the final year unless and until the other conditions of summer semester registration are fulfilled.
PART-II. SEMESTER REGISTRATION

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

a. The registration of the students for each semester shall be made in accordance with the Academic Calendar notified by the Director Academics. The application forms shall be obtained from the office of the HoD of the concerned Department. The students shall submit the forms duly filled up to the HoD of the Department. After necessary verifications, the HoD of the Department will notify the list of registered students within ten days of the start of regular semester and four days of the start of summer semester. He will also forward these lists to all concerned within a week.

b. In case of a regular semester, if a student misses his registration for cogent reasons, a fine of Rs.100/- per day will be charged for a period of ten days. After that, the name of the defaulter will be removed from the rolls of the College and he will have to pay the readmission fee along with the fee and fine before he is readmitted. Application to this effect shall be submitted to the Principal.

c. All students will pay dues/Fees as per schedule at the start of semester otherwise they will pay late Fee Fine as per regulations. A student who receives scholarship through the Director Finance may pay his/her fee and charges without fine with in a week of receipt of the scholarship for the corresponding period. He shall not claim any other relaxation in the rules governing for teaching, attendance and examinations.

PART-III. ATTENDANCE REQUIREMENTS

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

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

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

c. He has attended a minimum of 75% of the total number of lectures delivered, the laboratory periods held, design and practical work done in a course during the Semester for which the exams is being held. The HoD of the concerned Department may, for valid reasons, condone this deficiency up to 10% by consultation with the course teacher concerned.

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

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

f. At the end of each month, the teacher concerned shall send to Head of the Department, a statement giving the total number of lectures delivered and practical conducted by him together with the number of lectures and practical attended by each student.
PART-IV. CONDUCT OF EXAMINATION

1. Students Evaluation System
The performance of every student shall be continuously monitored and assessed throughout the semester. During the semester a student’s performance shall be evaluated by taking quizzes, assignments, mid semester examination, laboratory reports, and project presentations etc. An End-Semester examination shall also be taken at the end of each semester covering the entire syllabus.

The course teacher shall be responsible for the evaluation of work/performance of the students of his class and for the award of grades to them on the basis of such evaluation.

2. Grading Mechanism
Course grades shall be awarded to the students preferably based on their relative performance in the course with minimum student’s strength more than ten (10). Grading shall be usually carried out on the basis of normal distribution curve using statistical methods with preferably B as the class average, however, the course teacher’s decision in this regard shall be considered final.

Grades shall be indicated by letters. There shall be 4-letter grades i.e. A, B, C & D for individual courses with 9 performance levels e.g;

<table>
<thead>
<tr>
<th>Letter Grades</th>
<th>Performance Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 As</td>
<td>A &amp; A-</td>
</tr>
<tr>
<td>3 Bs</td>
<td>B+, B &amp; B-</td>
</tr>
<tr>
<td>3 Cs</td>
<td>C+, C &amp; C-</td>
</tr>
<tr>
<td>1 D</td>
<td>Simple D</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Letter Grades</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
</tr>
</tbody>
</table>

The following guideline for the award of Letter Grades can be followed by the course teachers in case of absolute grading and project evaluation etc.

<table>
<thead>
<tr>
<th>Marks (%)</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>85-89</td>
<td>A-</td>
</tr>
<tr>
<td>80-84</td>
<td>B+</td>
</tr>
<tr>
<td>75-79</td>
<td>B</td>
</tr>
<tr>
<td>70-74</td>
<td>B-</td>
</tr>
<tr>
<td>65-69</td>
<td>C+</td>
</tr>
<tr>
<td>60-64</td>
<td>C</td>
</tr>
<tr>
<td>55-59</td>
<td>C-</td>
</tr>
<tr>
<td>50-54</td>
<td>D</td>
</tr>
<tr>
<td>&lt;50</td>
<td>F</td>
</tr>
</tbody>
</table>

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

4. Cumulative Grade Point Average (CGPA)
The cumulative GPA (CGPA) shall be calculated similarly (as that for SGPA) for all the courses taken in all the semesters of the degree program.

5. Evaluation Components

a) Sessional Awards:
   i. Quizzes: There shall be an appropriate number of unannounced quizzes per course in a semester.

   ii. Mid Semester Examination: There shall be one mid semester examination of 1.5 to 2.0 hours duration per course in a semester after eighth week of teaching in case of regular semester and after fourth week in case of optional semester. While for practical part, the mid semester examination will be conducted during practical/lab hours.

   iii. Home Assignments/Mini Projects: There shall be an appropriate number of Home Assignments and / or Mini Projects per course in a semester.
iv. Laboratory Reports:
The students shall submit laboratory reports on each laboratory practical held, which the course teacher will evaluate. In this case each experiment, design, drawing, project or assignment shall be considered an examination.

b) End-Semester Examination
There shall be separate End-Semester Examination for theory and practical part of a subject. The duration of Theory paper will be from 2.00 to 3.00 hours covering the entire course at the end of each semester. In case of practical part the oral/viva voce examination will be conducted jointly by the Course Teacher (i.e. Internal Examiner) and External/Neutral Examiner. The examination shall be held in the last two weeks of each regular semester and last one week of summer semester.

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

<table>
<thead>
<tr>
<th>Evaluation Component</th>
<th>Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes, Home Assignments /Mini Projects</td>
<td>20%</td>
</tr>
<tr>
<td>Mid Semester Examination</td>
<td>30%</td>
</tr>
<tr>
<td>End-Semester Examination</td>
<td>50%</td>
</tr>
</tbody>
</table>

b) Practical Part

<table>
<thead>
<tr>
<th>Evaluation Component</th>
<th>Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes, Home Assignments /Mini Projects</td>
<td>50%</td>
</tr>
<tr>
<td>Mid-Semester Examination Practical/Sessional</td>
<td></td>
</tr>
<tr>
<td>End-Semester Examination</td>
<td>50%</td>
</tr>
</tbody>
</table>

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

7. Choice in Question Papers
There shall be no choice of questions in any of the evaluation components.

8. Absence from Examination
Absentees in any of the evaluation components shall be awarded zero marks whereas the absentee of End-Semester examination shall be awarded an F grade irrespective of sessional marks.

9. Maintenance and Display of Sessional Awards
The teacher concerned shall prepare four copies of the sessional awards. He shall retain one copy with him; shall send one copy each to the Head of the Department concerned and the Controller of Examinations immediately after the completion of the teaching session. He shall also display a copy of the sessional awards on the Notice Board before the start of End-Semester examination.

10. Showing of Answer Scripts
The marked scripts of each examination component i.e. quizzes, assignments, lab reports, mid and end semester examination shall be shown to the students by the concerned teachers. In case, a student is not satisfied with his awards and/or clarification from the teacher concerned, he may make written complaint to the HoD of the Department who will refer his case to the Departmental Semester Committee and the decision of the Committee shall be final.

11. Re-mid Examination
A student who fails to take his Mid semester examination due to some unavoidable circumstances (beyond his control) shall apply in writing to the HoD for retaking mid semester examination before the End Semester Examination. The HoD will refer his case to the Departmental Semester Committee for consideration and decision. The decision shall be communicated to the Controller of Examinations in writing. In case a student is allowed to retake Mid Semester Examination, the examination will be conducted by the concerned course teacher before the End Semester Examination on the payment of prescribed fee by the student.

12. Place, Conduct of Examination and Date Sheet
The Controller of Examinations shall issue the date sheet of theory papers for each mid and end semester examinations. Mid Semester examinations shall be held on consecutive days excluding holidays which means that no gap shall be allowed between the two papers. While the End Semester examination shall be held on alternate days. The date sheet for Practical/Viva Voce Examination will be issued by the HoD of the concerned Department.
13 Paper Setting and Marking of Scripts for MID/End-Semester Examination (Theory Part)

The course teacher(s) shall be responsible to set the question paper covering the entire syllabus, mark the answer scripts and prepare the award lists.

a) The course teacher after setting the question paper shall get it photo copied by himself in accordance with the number of students and deliver it to the Centre Superintendent on the date of examination as per date sheet.

b) On receipt of Answer Scripts from the Centre Superintendent on the same day, the course teacher shall mark the scripts for each examination and prepare the award lists on the prescribed form. After the End-Semester examination, he shall send the award lists (hard and soft copies) along with the marked scripts and question papers of Mid and End-Semester examinations to the Controller of Examinations through the Head of the concerned department after a departmental faculty meeting under sealed cover within the specified time limit.

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

d) The time limit for marking the scripts shall be ten (10) days.

e) A deduction of Rs. 50/- per day will be liable to be made from the remuneration of the examiners for delayed submission of results after the prescribed time limit.

14 Appointment of Examiners for Practical Part

The Internal and External/Neutral Examiners for a practical paper shall be appointed by the Principal on the recommendations of the Board of Studies of the Departments which shall recommend internal examiner and a panel of External/Neutral examiners to the Controller of Examinations. 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 marks between the Internal and External/Neutral Examiners, the HOD of the department shall act as an arbitrator whose decision shall be final. In case the HoD is himself an examiner, the Principal shall act as arbitrator.

15 Final Year Project

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

16 Summer Internship

Every student shall be required to participate in an eight weeks practical training program during the summer of their second or third year and submit a formal report to the Head of the Department. How ever at least four weeks internship will be mandatory for completion of four years BSc Engineering degree program as per PEC requirements.

17 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 Principal.

18 Notification of Result

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

19 Re-Checking of Answer Scripts

There shall be no re-evaluation of answer scripts of the End-Semester examination. However, a candidate shall be allowed to have his answer scripts rechecked by the Controller of Examinations on payment of prescribed fee within fifteen days of the declaration of the result. The HoD of the Department concerned may condone the delay up to a maximum period of ten days on payment of double fee. The Controller of Examinations shall verify that:-

a) The script has not been changed.

b) No portion of the script has been left unmarked.
20 Academic Deficiencies
A student, who obtains one or more of the following in a semester result, shall be considered academically deficient:

a. One or more "F" grades in a semester.
b. One or more "I" grades in a semester
c. SGPA less than 1.00 at the end of 1st semester
d. CGPA less than 2.00

da) Academic Dismissal
A student who fails to obtain a minimum GPA of 1.0 at the end of 1st semester of a degree program shall be placed on academic probation for the 2nd semester. In case, he fails to improve his CGPA to 1.0 at the end of 2nd semester, his name shall be removed from the Rolls of the College. Students dismissed on academic grounds shall, however, be furnished with an official transcript indicating the course completed along with grades earned in registered courses.

b) Re-admission
Re-admission in the first year, without going through the admission process, is granted to only those undergraduate students who have been dismissed on academic grounds but only for once. There is no second re-admission.

c) Relegation to Lower Semester
An academically deficient student can apply to the HoD of concerned department for Willing Relegation to lower semester to overcome his academic deficiencies. The HoD will refer his case to the Departmental Semester Committee for appropriate decision which will be forwarded to the Controller of Examinations through the Registrar for Principal's approval and subsequent notification. The Willing Relegation to lower semester can only be availed once during the entire degree programme subject to written consent of the parents / guardians.

21 Incomplete (I) Grades
A student may request for the award of an 'I' (Incomplete) grade, if for some genuine reasons (beyond his control), he fails to appear in an end semester examination or final project. 'I' grade will not be awarded for any other deficiency in a course (e.g. shortage in attendance etc). For the award of an 'I' grade, the student will apply on a prescribed form "i.e. 'I' Grade Application Form" to the Head of the concerned department, who will refer the case to the Departmental Semester Committee for consideration. The Departmental Semester Committee will make its recommendations based on the genuineness of the case and on the basis of his performance in mid semester examination, lab work, home assignments, quizzes, class participation etc. In case the student is allowed an 'I' grade in a course by the Head of the Department on the recommendations of the Departmental Semester Committee, he would be allowed to take only End-Semester Examination of that course on payment of prescribed fee. The 'I' grade must be completed before the commencement of the forthcoming End-Semester Examination, failing which the 'I' grade will automatically be converted to 'F' Grade. "I" grade will not be awarded in Summer Semester.

22 Repeating Courses / Improving Grades
a. If a student obtains "F" Grade in any course, he shall have to repeat that or an equivalent course. Similarly whenever a student obtains a grade “D”, he can repeat that course to improve his grade. A student shall be allowed to repeat a maximum of six courses to improve the grades during the entire degree program.

b. An academically deficient regular student will be allowed to repeat / improve maximum of two courses during a summer semester if offered as well as during a regular (Fall or Spring) semester whenever the teaching and examination schedule makes it possible for him to register himself for the courses, attend the classes and to take the Mid and End-Semester Examinations. While the academically deficient casual student shall be allowed to repeat/improve if offered the courses either during summer semester or whenever the teaching and examination schedule makes it possible for him to register himself for the courses, attend the classes and to take the Mid and End-Semester Examinations. Casual students can register for a maximum of Two courses in a Summer Semester and Five (05) Courses in a Post Eighth Regular Semester. In case of repetition / improvement of a course the student shall have to pay course registration and examination fee as prescribed by the College.
c. As soon as a student is registered for a course, his previous grade for that course whether low or high shall be cancelled, and only the latest grade earned by the student shall be considered for the computation of CGPA. It shall be noted that a student can only improve a grade D and F.

d. In case a student repeats a course which has already been taken, and in case a student takes a new course in lieu of the course in which he failed, both the courses along with grades will be reflected on his transcript.

e. **23 Freezing of Semester**

Students will be allowed to freeze a semester only once during the entire degree programme owing to some extreme and genuine reason to be determined by the Departmental Semester Committee. Students shall not be allowed to freeze their First and Second Semester(s), in any circumstances. Only those students who have completed their First Academic Year at the College shall be eligible to avail this facility.

A student must apply to the Head of the Department, in writing, for freezing of one or two consecutive semesters within fifteen days of commencement of the semester. Students can request for freezing of at most two (02) consecutive semesters with Summer Semester not being counted. The HoD of concerned Department will approve the request on the recommendation of the Departmental Semester Committee and Controller of Examinations shall notify the Freezing of Semester(s) accordingly.

On his return, the student will be re-registered in the same semester with next junior class, in case of freezing two consecutive semesters and his courses shall be evaluated by the concerned Head of the Department to determine their relevance to the changes made in the Curriculum (if any). In such a case, the student shall be required to modify the degree plan in order to ensure conformity to the recent curriculum. Also, students will be required to pay the difference of College fee (if any) besides the re-registration fee. In case of freezing one semester, the student may re-join his own class. The deficiency created by frozen semester shall be made up after completing the remaining courses with his class i.e. after eighth semester by enrolling as a Casual Student.

The maximum duration of the degree program shall remain the same which will be considered from the date of his first semester registration including the frozen semesters.

**24 Withholding of Comprehensive Result**

The comprehensive result of a candidate, who is allowed to appear in the final semester examination while carrying courses of the lower semesters, shall not be declared till he clears the courses of lower semesters as a Casual Student. His Comprehensive result will be declared with the session in which he clears his last course of the degree programme. After the declaration of Final Semester Result, the students with status “Passed” shall be required to submit the “DEGREE REQUIREMENTS COMPLETION FORM” complete in all respects within four days of the notification. Failing which Comprehensive Result Notification will be issued and the students will have no claim to improve their grades afterwards. Also, the students with status “Passed” and interested in improving their grades (D grade) and the students with status “Failed” shall be required to submit the “CASUAL STUDENT ENROLLMENT FORM” complete in all respects, for registration as Casual Students.

**25 Transfer of Credits**

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

- a. Credits can only be transferred from a PEC (Pakistan Engineering Council) accredited programme.

- b. A course with similar title, standard, duration, credit hours and matching course description is available in the relevant academic programme of the University. The course equates in description and laboratories work (if any) with the similar course of the relevant academic program of the University. The duration of the course must be same or more than the duration of the course in the program of the University.

- c. The candidate should have secured at least “B” grade in that course as per the grading system of the University.

- d. A maximum of 50% of the total credit hours of the relevant academic program of the University shall be allowed for transfer.

- e. Transfer fee as prescribed by the University/College shall be paid by the candidate.

- f. Transfer of credits is considered on the basis of course contents and credit hours to be decided by the Departmental Semester Committee.

- g. Transferred credits shall not be included in CGPA calculation however, will be reflected on the transcript as Transferred Credits.

**26 Award of Degree**

A candidate shall be admitted to the degree if:
a) He has earned total credit hours required for the degree within the prescribed duration of the degree programme.
b) He has obtained pass grades in all the courses offered in a semester.
c) He has passed all the semesters in the relevant discipline with at least 2.00 CGPA upto completion of a degree programme.
d) He has submitted the Degree Requirements Completion Form.
e) In case of the degree in Civil Engineering he has attended and satisfactorily completed annual survey camp organized by the College as certified by the Head of the Department.

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

a) He has obtained CGPA of 3.7 or more.
b) He has completed the degree programme within the minimum duration as specified in the regulations.
c) He has not obtained 'F' grade in any course during the entire degree programme.
d) He has not improved any grade in the entire degree Programme.
e) He has not transferred any credit from other institutions.

28 Award of Medals
A candidate who fulfills all the requirements for the award of degree with Honours shall be entitled to the award of a medal for best performance on the basis of combined eight semester examinations result in each discipline as detailed below:

1. University Gold Medal
   For obtaining 1st Position in a degree programme
2. University Silver Medal
   For obtaining 2nd Position in a degree programme
3. University Bronze Medal
   For obtaining 3rd Position in a degree programme

29 Semester Grade Sheet
Obtaining of Semester Grade Sheets (SGS) at the end of each semester shall be mandatory for all students. Prescribed Fee will be charged at the start of each semester with semester registration fee and SGS will be issued to the students within ten days of their respective result notification without any application. The SGS shall indicate Courses along with Letter Grades, Grade Points, SGPA, and CGPA.

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

31 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.

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

33 Issuance of Certificates / Degrees
Subject to fulfillment of requirements and submission of application on prescribed forms with fee:

a) Degree will normally be issued within two months of the receipt of the application.
b) Any other certificate or duplicate copy (other than degree) will be issued within six days of receipt of application.

Note: A candidate shall deposit double the prescribed fee if he requires a certificate or duplicate copy (other than degree) within 24 hours.

34 Certificate Fees
The rates of fee for various certificates shall be as under:

<table>
<thead>
<tr>
<th>Certificate Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Semester Grade Sheet</td>
<td>Rs.250</td>
</tr>
<tr>
<td>b) Transcript of Awards</td>
<td>Rs.3000</td>
</tr>
<tr>
<td>c) Provisional Certificate</td>
<td>Rs.2000</td>
</tr>
<tr>
<td>d) Duplicate Certificate/ Degree</td>
<td>Double of the normal fee</td>
</tr>
</tbody>
</table>

Note: The rate of fee may be revised by the College Authorities from time to time and fee will not be refundable in any case.

35. Other Fees

<table>
<thead>
<tr>
<th>Certificate Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Summer Semester Registration Fee</td>
<td>Rs.2000 per Credit Hour</td>
</tr>
<tr>
<td>b) Registration Fee for improvement of a Course during Regular Semester</td>
<td>Rs.3000 per Credit Hour</td>
</tr>
<tr>
<td></td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>c)</td>
<td>Post Eight Semester Registration Fee</td>
</tr>
<tr>
<td>d)</td>
<td>Fee for 'I' grade/ Mid Semester Re-Take Examination</td>
</tr>
<tr>
<td>e)</td>
<td>Re-checking of Answer Script Fee</td>
</tr>
</tbody>
</table>

*C: In case a semester contains less than 21 credit hours and a student who is fail in the course or intends to enhance his CGPA shall be allowed in the same fee to take the course(s) if the credit hours do not exceed 21 credit hours. A student having 3.5 or above CGPA wants to take additional course(s) of his own discipline or any other discipline shall be extended an opportunity to fulfill the desire in the same semester fee if the credit hours do not exceed 21 credit hours.

**Note:** The rate of fee may be revised by the College Authorities from time to time and will be applicable to the currently enrolled students of previous entries also. Fee will not be refundable in any case.

**36 Disposal of Marked Answer Scripts**

The marked answer scripts of a particular mid and End-Semester examinations shall be retained in the office of the Controller of Examinations for a period of one year. After this period, the scripts shall be disposed off accordingly.
37 Departmental Semester Committee

a. Constitution of the Committee
   Each Department shall have a Departmental Semester Committee constituted by the Principal comprising the following:-
   i. HoD of the Department
   ii. Two/ three senior most faculty members
   iii. The teacher concerned may be co-opted in case of complaint of the students.

b. Functions of the Committee

   i. Ensure content coverage of courses by comparing test with the course outlines and work plan provided by the teacher.
   ii. Monitor classroom activities as reflected in the course outlines.
   iii. Examine all problems regarding uniformity before the declaration of results.
   iv. Address and decide student’s complaints/appeals regarding sessional/ grade awards.
   v. Examine & Approve students requests for Award of ‘I’ Grade, Freezing of Semester and Retake of Mid Semester Examination.
   vi. Examine & Approve students requests for Willing Relegation to Lower Semesters only for the purpose of overcoming their Academic Deficiencies.
   vii. Examine & Approve Transferred Courses and corresponding credits for Migration Cases.

38 College Semester Committee

a. Constitution of the Committee
   There shall be a semester implementation committee to be constituted by the Principal. The Committee shall consist of the following:
   i. HoD of the Department
   ii. The Director QC & EC
   iii. The Director Academics
   iv. The Controller of Examinations
   v. The Deputy/Assistant Controller of Examinations (Secretary)

b. Functions of the Committee

   i. Provide consultation to the Academic Departments converting to the semester system from the term system.
   ii. Provide support in the implementation of semester system by arranging short courses for the faculty on its various aspects.
   iii. Monitor the implementation of semester system.
   iv. Address various issues arising with relation to the implementation of the semester system.
   v. Recommend necessary amendments in the semester regulations, if needed.
   vi. Examine and Approve students requests for Re-admission.
MIGRATION
1. Subject to the provisions of Regulations, the Vice Chancellor of the University (UET, Taxila) may admit a student to the College by migration from other universities or institutions accredited by the Pakistan Engineering Council.

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

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

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

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/College examinations nor suspended nor expelled nor rusticated, for whatsoever reason, from the University/College or institution from which he intends to migrate.
   c. No disciplinary action is pending against him.
   d. 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.
   e. No student admitted to any University or institution against seats reserved for special categories shall be eligible for admission by migration.
   f. Only those students, who have academic merit at par with the students admitted in this University/College on open merit in the respective classes, shall be considered for admission by migration.
   g. No student shall be migrated to the College who carries any of his papers of previous years.
   h. No migration shall be allowed to and from the constituent/affiliated institutions.

i. 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.

j. Migration application will be entertained only on the prescribed application form, obtainable from the Student Section, at the cost of Rs.500/-. 

k. A migration fee Rs 50,000/- (Fifty thousand only) per year to be studied will be charged at this College.

l. A student desiring to leave this College in order to join another Institution shall apply to the HoD of the Department concerned on the prescribed form.

m. The student will be required to clear all the University/College dues before he applies for migration.

n. In case of a student who has been debarred from taking college 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.

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

p. A student who has obtained No Objection Certificate from this College, but has not secured admission in another institution, may be re-admitted to the College in the class to which he can be admitted under the regulations provided that:
   i. His absence from the current teaching session of that class does not exceed four weeks, and that
   ii. He surrenders the No Objection Certificate.

q. Any changes/ additions/ modifications, if made in the above regulations, will also be applicable.
STUDENTS
DISCIPLINE
RULES
STUDENTS DISCIPLINE RULES

a. These rules shall be called the "Swedish College of Engineering and Technology, Wah Cantt. (Students General Discipline) Rules,
b. These Rules are in effect from 2009.
c. Unless otherwise explained in the context or explicitly expressed, the following terms shall mean as defined in each case:

1) "Academic Department" means an academic department of the College.
2) "Committee" means the Students Discipline Committee of the College constituted by these rules.
3) "Country" means Pakistan.
4) "Examination Hall" means a place declared as examination hall or as such
5) "Student" means a bona fide student of the College in accordance with the respective rules.
6) "College" means the Swedish College of Engineering and Technology, Wah Cantt.
7) "Principal and other officers/authorities" mean the Principal and other officers/authorities of the College.

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

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

1) He must be faithful in his religious duties and respect the conviction of others in matters of religion and custom.
2) He must be loyal to his country and refrain from doing things, which might lower its honor and prestige.
3) He must be truthful and honest in his dealings with all people.
4) He must respect the elders and be polite to all especially to women, children, old people, the weak and the helpless.
5) He must respect his teachers and others in authority in the College.
6) He must keep clean in body and mind, standing for clean speech, clean sport and clean habits.
7) He must help his fellow beings especially those in distress.
8) He must devote himself faithfully to his studies.
9) He must observe thrift and protect property.

e. No student shall:

1) smoke in his classroom, laboratory, workshop, library, examination hall or convocation hall and during studio work or academic functions;
2) consume alcoholic liquor or other intoxicating drugs within the College 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;
3) Organize or take part in any function within the College campus or a hall of residence or organize any club or society of students except in accordance with the prescribed rules and regulations;
4) collect any money or receive donations or pecuniary assistance for or on behalf of any college organization except with the written permission of the Principal or any officer authorized by the Principal;
5) stage, incite, participate in or indulge in any walkout, strike or other form of agitation against the College or its teachers or officers;
6) interfere in the official proceedings of the examination or other College business;
7) threaten or misbehave with the officers or other employees of the College or try to influence such officers or employees in any way in
connection with their official assignments;

8) Instigate or take part in any boycott of examination or create disturbance in or, around the examination hall.

f. 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 College. 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 HoD.

g. 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 Director Administration.

h. The Warden shall be responsible for the issues related to the hired accommodation for male and female students. The In-charge Physical Education shall be responsible for the maintenance of order among the students on or near the playground or otherwise under his charge.

i. To deal with the serious cases of in-discipline, there shall be a Students Discipline Committee, consisting of the following:

1) HoD, to be nominated by the Principal
2) Director Administration
3) Two members not below the rank of Assistant Professor
4) The Warden
5) The Director Students Affairs

j. The functions of the Committee shall be:

1) to propose regulations to the Management, and other authorities, for the conduct of the College students,
2) to maintain discipline and to guard against the breach of discipline,
3) to perform such other functions as may be prescribed.

k. 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 rules, if he:

1) commits a breach of any of the rules of conduct, or
2) disobeys the lawful order of a teacher or other persons in authority in the College; or
3) habitually neglects his work or habitually absents himself from his class without reasonable cause; or
4) willfully damages College property or the property of a fellow student or any teacher or any employee of the College; or
5) does not pay the fees, fines or other dues leviable under the College Act, Statutes, Rules, Regulations or Instructions; or
6) does not comply with the rules relating to residences in the hired accommodation or hall of residence or the Rules relating to the College Dress Code; or
7) uses indecent language, wears immoderate dress, makes indecent remarks or gestures or behaves in a disorderly manner; or
8) commits any criminal, immoral or dishonorable act (whether committed within the College campus or otherwise) which is prejudicial to the interests of the College; or
9) humiliates, or causes to humiliate, his fellow student or a teacher or officer or other employees of the College; or
10) possesses, carries or uses any type of weapons/fire arms or explosive material within the College premises; or
11) spreads by word, mouth or written material, religious, sectarian, ethnic, regional or linguistic conflicts/hatred; or
12) uses or takes unauthorized possession of the College transport; or
13) Shows immodest/indecet or contra-Islamic behavior with fellow boy/girl student.

i. The penalty or penalties imposed shall be appropriate and proportioned to the nature and gravity of the act.
ii. The penalties which any be imposed by the authority or authorities competent to impose each kind of penalty are specified in the table given below:
<table>
<thead>
<tr>
<th><strong>Penalty</strong></th>
<th><strong>Competent Authority</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exclusion from classroom Laboratory, workshop or fieldwork for the periods concerned, for not more than four such consecutive periods.</td>
<td>Teacher In-charge</td>
</tr>
<tr>
<td>Exclusion form the game or the field not more than one week.</td>
<td>In charge of the game</td>
</tr>
<tr>
<td>Exclusion form instructional or sports tour or survey camp</td>
<td>Teacher In-charge or Tour In-charge/HoD</td>
</tr>
<tr>
<td>Exclusion from the Department for a period not more than one year.</td>
<td>HoD</td>
</tr>
<tr>
<td>Exclusion form the library for not more than two weeks</td>
<td>Chairman, Library Committee</td>
</tr>
<tr>
<td>Exclusion from all classes or any class in any Faculty for a period not exceeding one year.</td>
<td>HoD</td>
</tr>
<tr>
<td>Exclusion form the College hired accommodation for a period not exceeding six months.</td>
<td>Warden</td>
</tr>
<tr>
<td>Exclusion from the College hired accommodation for a period not exceeding one year.</td>
<td>Warden</td>
</tr>
<tr>
<td>Suspension or removal from a position of authority in a College hired accommodation</td>
<td>Warden</td>
</tr>
<tr>
<td>Suspension or removal from a position of authority in the College Sports</td>
<td>The In-charge physical Education and Sports</td>
</tr>
<tr>
<td>Cancellation or removal from a position of authority in the college Sports</td>
<td>The In-charge physical Education and Sports</td>
</tr>
<tr>
<td>Fine up to Rs. 2000/-</td>
<td>Teacher In-charge</td>
</tr>
<tr>
<td>Fine up to Rs.5000/-</td>
<td>Director Student Affairs</td>
</tr>
<tr>
<td>Fine up to Rs.10000/-</td>
<td>Director Administration</td>
</tr>
<tr>
<td>Fine up to Rs.20000/-</td>
<td>HoD</td>
</tr>
<tr>
<td>Fine without any limit</td>
<td>Principal</td>
</tr>
<tr>
<td>Rustication from the college</td>
<td>HoD/Discipline Committee</td>
</tr>
<tr>
<td>i). for a period not exceeding one year</td>
<td>HoD/Discipline Committee</td>
</tr>
<tr>
<td>ii). For any period</td>
<td></td>
</tr>
<tr>
<td>Expulsion from the College</td>
<td>Discipline Committee</td>
</tr>
<tr>
<td>Withholding of result/s, certificate of good moral character etc.</td>
<td>HoD/Discipline Committee</td>
</tr>
</tbody>
</table>

14) When a case against a student is referred to the Committee, the Committee may, if it deems fit, suspend the student from College Rolls and/or direct him to vacate the hired accommodation of the College till it has taken a decision in the case.

15) Notwithstanding anything contained in sub rules, the Principal shall have the powers to impose any of the penalties mentioned or to refer the case to the Committee.
16) 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;

   i. the case is one which can be more appropriately dealt with by another authority; or
   ii. a penalty severer than that which he is competent to impose is called for in the case; shall follow the procedure specified below:
   iii. If he is not the HoD he shall refer the case to the HoD who may deal with it himself or refer to the appropriate authority,
   iv. If he is the HoD, he shall refer the case to the Principal or the Committee.
   v. 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 rules.

l. When a teacher or officer has imposed penalty/ penalties on a student under sub rules of rules, 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.

m. The Principal or any teacher or officer to whom the Principal may delegate his powers, may direct a student to pay compensation for any loss, or damage to property belonging to the College or to a fellow student or to an employee of the College 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 Principal may expel him from the College and loss/damage/ compensation be recovered from his parents/guardians through legal proceedings.

n. **College 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.

o. **Liability for Injury Damage and Loss**

The College teaching programs include training in its workshops and laboratories, places of engineering interest, industrial concern, and construction jobs. The College 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.

p. **Modification of Rules and Regulations**

The rules and regulations governing various aspects of students' life at the College (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 College; nor does it, in any way restrict or curtail the inherent powers for the College 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.
1. General Instructions
   a) The application along with the required documents should be submitted as early as possible. Please do not wait for the last date.
   b) 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.
   c) All documents to be attached with the Application Form should be attested by a class-I Gazetted officer of the government.
   d) Any information regarding admissions can be obtained during working hours by calling Phone # 051-4903801-2, and 051-4531348

Note: Members of the Admission Committee will also be available for consultation, in person, during admission period.

2. Eligibility Requirements for Admission
   a) An applicant for admission to B.Sc. Degree Course in Civil, Electrical and Mechanical Engineering must fulfill the following eligibility requirements:
   b) 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.
   c) He should have passed the examination (up to the latest annual examination on the basis of which he seeks admission.
   d) He should have obtained at least 60% marks in examination on the basis of which he seeks admission.
   e) He should be a bona fide resident of the area from where he seeks admission.
   f) He should meet standards of physique and eyesight laid down in the medical certificate.
   g) He should have appeared in the Entry Test for the respective session arranged by the University of Engineering & Technology (UET’s) with the combination (English, Mathematics, Physics, Chemistry)
3. **Equivalent Examinations**

The University of Engineering & Technology (U.E.T) Taxila 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. F.Sc. (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 Committee of Chairmen)

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

**Inter Board Committee of Chairmen,**  
**Federal Board of Intermediate and Secondary Education Building**  
**H-8/4, Islamabad-Pakistan**
4 Fees and Other Charges

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

a) One Time Fee and Dues (in Pak Rupees)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission Fee</td>
<td>20,000/-</td>
</tr>
<tr>
<td>Registration Fee</td>
<td>2,000/-</td>
</tr>
<tr>
<td>Security Deposit (Refundable)</td>
<td>15,000/-</td>
</tr>
<tr>
<td>Certificates, Diplomas Verification Fee</td>
<td>1,200</td>
</tr>
<tr>
<td><strong>Total (Rs)</strong></td>
<td><strong>38,200/-</strong></td>
</tr>
</tbody>
</table>

b) Semester Fee: Rs. 99,500/-

5 Eligibility for Diploma Holder

For admission of applicants holding the Diploma of Associate Engineer, he should have passed the diploma examination from the respective provincial Boards of Technical Education, in the relevant technology, obtaining not less than 60% marks.

- **Civil Engineering**
  - Diploma in Civil Technology
- **Electrical Engineering**
  - Diploma in Electrical Technology
  - Diploma in Electronics Technology
  - Diploma in Instrument Technology
6 Provisions about admission on the basis of a B.Sc. Degree

Given the qualifications and restrictions stated below, a person is eligible for admission to the Bachelor's Degree courses at the College on the basis of a degree of Bachelor of Science. A person possessing a B.Sc. Degree is NOT eligible for admission to any bachelors Degree course at the College unless he has also passed F.Sc. (Pre-engineering) or F.Sc. (Pre-Medical) Examination.

7 Scope of Eligibility for B.Sc. with F.Sc. (Pre-Engineering)

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

8 Gender

Both male and female persons are eligible to apply on open, merit.

9 Seats Allocation

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Merit</td>
<td>92%</td>
</tr>
<tr>
<td>Reserved*</td>
<td>4%</td>
</tr>
<tr>
<td>DAE</td>
<td>4%</td>
</tr>
</tbody>
</table>

(*) Reserved for sports, disabled, UET nominees and Nominees of Board of Trustees

10 Available Seats

<table>
<thead>
<tr>
<th>Course</th>
<th>Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.Sc. Electrical Engineering</td>
<td>100</td>
</tr>
<tr>
<td>B.Sc. Mechanical Engineering</td>
<td>100</td>
</tr>
<tr>
<td>B.Sc. Civil Engineering</td>
<td>100</td>
</tr>
</tbody>
</table>
11 Determination of Merit

Examinations Considered for Merit

For admission to all the Bachelor’s 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 (B.Sc.)
c) Diploma of Associate Engineers (D.A.E.)
d) Entry Test of UET’s.

12 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-engg) as the highest Qualification
   HSSC (Pre-Engg) or Equivalent  70%
   Entry Test                    30%

b) For Application with B.Sc. as the Highest Qualification
   B.Sc. or equivalent           35%
   HSSC or equivalent examination 35%
   Entry Test                    30%

c) For Applicants Having Diploma of Associate Engineer as the Highest Qualification
   Diploma of Associate Engineer 70%
   Entry Test                    30%

d) Merit of F.Sc. (Pre-medical) with Mathematics
   In determining the merit of an applicant having F.Sc. (Pre-medical) with Mathematics as an additional subject, the marks obtained in the subject of Biology are replaced by those obtained in Mathematics.

e) 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 decimal places), 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.
13 Variation in Seats

The college authorities in consultation with U.E.T, Taxila and Pakistan Engineering Council 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.

14 Documents to be Attached with Application Form

An applicant must exercise great care in ensuring that his application form 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 attested copies of the documents/certificates required from applicants for different categories are summarized below:


b). Degree, Diploma or Certificate of the examination on the basis of which admission is sought (i.e. F.Sc., B.Sc., or D.A.E etc.). Result cards issued by the board/university are acceptable.

c). Provisional Certificate in place of Degree/Diploma will not be accepted.

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

d). Domicile Certificate.

15 Prospectus/Application Fee:

a) The fee is to be paid in the Accounts Office of Swedish College of Engineering and Technology, Wah Cantt.

b) The applicants must check up carefully that they are paying 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.

16 Last Date for Receipt of Applications

The application form complete in all respects along with the requisite documents and receipt of payment should reach the Director Admissions, Swedish College of Engineering and Technology, Wah Cantt on or before the last date notified for receipt of applications.

17 Incomplete Applications

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

18 Procedure for the Selected Candidates:

a) Notification of Selection

A list of selectees will be displayed on the college notice boards and on official college web site (http://www.scetwah.edu.pk). The applicants can check the merit lists according to the schedule given in Prospectus.

b) Depositing of Dues and Documents

Within specified days mentioned in the admission schedule, a selectee is required to pay the College dues in the accounts office and submit the following documents to the Director Admissions office.

i. Medical Certificate duly signed and stamped by the District Medical Superintendent.
ii. Ten attested most recent photographs.
iii. Attested Certificate of parent's/guardian's income.
iv. Original degrees, certificates and result cards of SSC, F.Sc. B.Sc., GCE(A), Diploma of Associate Engineers or the equivalent qualifications and their duplicate attested photocopies.
v. Original Marks Sheet of Entry Test.
vi. Original Domicile certificate.
vii. Attested photocopy of National Identity Card/Form B.
viii. Bio-Data Sheet.
ix. Undertaking on a Rs.50/- judicial paper duly completed.

There will be no relaxation in the time and date mentioned in prospectus for failure of submission of dues within time. The right of admission shall forfeit in this case due to failure of submission of dues within time.

There will be no relaxation in the time and date mentioned in prospectus for failure of submission of dues within time. The right of admission shall forfeit in this case due to failure of submission of dues within time.

19 Other Charges

The following recurring charges are to be paid by the students at the start of each semester.

<table>
<thead>
<tr>
<th>Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Examination Fee</td>
<td>2,000/-</td>
</tr>
<tr>
<td>Industrial Visits</td>
<td>1,000/-</td>
</tr>
<tr>
<td>Library Fee</td>
<td>1,000</td>
</tr>
<tr>
<td>Recreation Fee</td>
<td>1,000</td>
</tr>
<tr>
<td>Sports Fee</td>
<td>1,000</td>
</tr>
<tr>
<td>SCET Societies Fee</td>
<td>1,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Rs. 7,000/-</strong></td>
</tr>
</tbody>
</table>

A sum of Rs 5,000 will be charged as Semester Registration Fee at the start of each Semester.

20 Refund of Securities

All College securities are refunded when a student leaves the College. The College security, however, shall stand forfeited if a student is expelled from the college on disciplinary grounds.
STUDENTS PORTAL
Industrial Visits

- HMC Taxila
- PTCL Data Centre
- Mangla Dam
- KSB Hassanabdal
- POF Wah
- Nandi Pur
- Terbela Dam & Power House
- Bestway Cement
- Warsak Dam

Internships.

- Water and Power Development Authority (WAPDA)
- Pakistan Telecommunication Company Limited (PTCL)
- Islamabad Electric Supply Company (IESCO)
- Karachi Electric Supply Company (KESC)
- Kot Addu Power Company Limited (KAPCO)
- National Transmission and Despatch Company (NTDC)
- Gujranwala Electric Supply Company (GEPCO)
- Bestway Cement
- Fauji Cement
- Attock Oil Refinery
- BB Pakistan Ltd
- Packages Pvt Ltd
- Honda Atlas Ltd
- FECTO Cement
- DESCON Engg
- Ghazi Barotha
- PARCO
- Siemens
- OGDCL
- POF
OPEN HOUSE 2016

It was held on 18th May, 2016. More than 50 final year projects were on display reflecting the creative technological efforts of the students of 2K-12 batch.

Prof. Dr. Niaz Ahmad Akhtar Vice Chancellor UET Taxila graced the occasion by inaugurating the Open House. The event was attended by a large community including academicians, entrepreneurs and industry experts from institutes and organizations such as NUST, UET Taxila, POF, WEC, KSB, NESCOM, HITECH, HMC, NHA etc. The work of final year students on their projects was highly appreciated by the visitors.
MECHANICAL ENGINEERING DEPARTMENT
1st  Design, Prototype and Controlling of Hospital Cot
2nd  Solar-Wind Hybrid Power System
3rd  Prototype of Plastic Molding Machine for Domestic Use

CIVIL ENGINEERING DEPARTMENT
1st  To investigate permanent deformation of unbound granular material using WTT
2nd  Laboratory Study of Engineering properties of Soil using lime as admixture
3rd  Contractor selection and bid evaluation in construction industry of Pakistan

ELECTRICAL ENGINEERING DEPARTMENT
1st  Wireless Power Transmission Using Tesla Coil
2nd  Design of multi source electronic vehicle
3rd  Home Appliance control Using Emergency Trends of Engineering
AWARDS AND ACHIEVEMENTS

Entry 2K-12 Mechanical Engineering students participated in the following events and won the positions meritoriously.

<table>
<thead>
<tr>
<th>Event</th>
<th>Organizers</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE 2K15 - ROBOWARS</td>
<td>FAST, Lahore</td>
<td>2nd</td>
</tr>
<tr>
<td>NASCON 15 – ROBOWARS</td>
<td>FAST, Islamabad</td>
<td>2nd</td>
</tr>
<tr>
<td>NERC 15 – ROBOWARS</td>
<td>NUST (EME)</td>
<td>3rd</td>
</tr>
<tr>
<td>IEEE 16 – ROBOWARS</td>
<td>FAST, Lahore</td>
<td>1st</td>
</tr>
<tr>
<td>NASCON 16 -ROBOWARS</td>
<td>FAST, Islamabad</td>
<td>2nd</td>
</tr>
</tbody>
</table>

Participants: Raja Muhammad Umer, Usama Shabbir Gill, Uzair Mahmood

Event : Social Sciences Expo-2016

Organizers: Inter University Consortium for the Promotion of Social Sciences (IUCPSS).

Competition Avenues:

- Business Plan Competition
- Essay Writing Competition
- Painting and Sketching Competition
- Penal Discussion Competition
- Case Study Competition

Electrical Engineering department students won 3rd prize in Panel Discussion Competition.
Event: Inter University Multi Topic Symposium
Organizers: Muslim Youth University Islamabad
Achievement:

Electrical Engineering department students won 2nd position in Quiz Show.

Event: AIRNEXUS 16 (FUTSAL CHAMPIONSHIP)
Organizers: Air University Islamabad
Achievement:

Civil Engineering department students won the Championship.
SPORTS WEEK