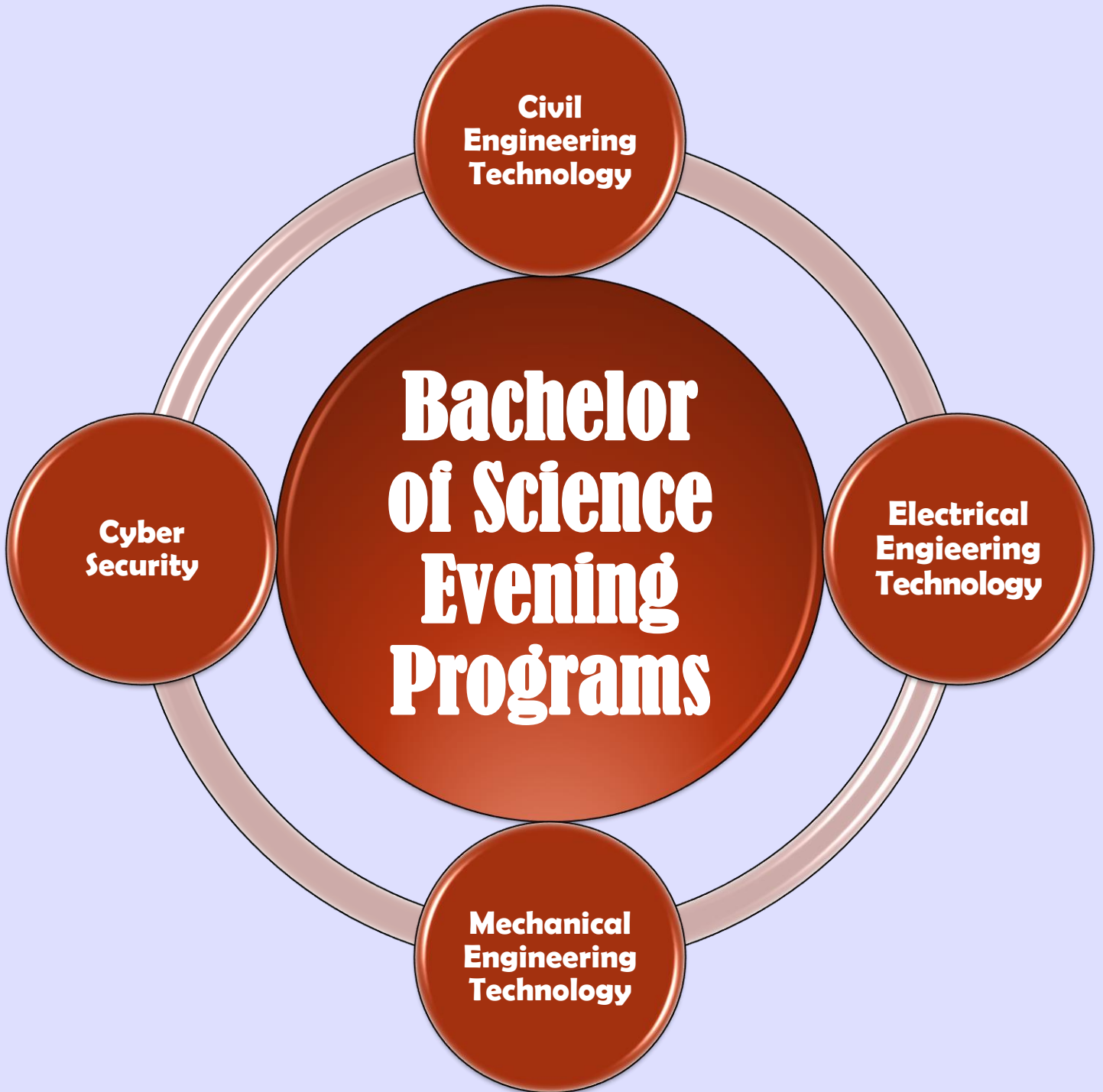


*MEHRAN UNIVERSITY  
OF  
ENGINEERING AND TECHNOLOGY  
JAMSHORO*



**STUDENTS GUIDE 2022-23**

## **Acknowledgment**

We are thankful to stakeholders for their involvement in preparation of this Prospectus.

## **Disclaimer**

The information in this prospectus is correct at the time of publishing. The University reserves the right to add or remove courses and to make changes in Syllabi, Courses Options and Modules, Fees etc. at any stage. Although every effort is made to ensure accuracy at the time of publication, University reserves the right to make any corrections in the contents and provisions without notice.

For further information please contact [admissions@admin.muet.edu.pk](mailto:admissions@admin.muet.edu.pk)



**Vision:**

To become world class educational and research institute and contribute effectively towards building up indigenous & technological capabilities for sustainable socio-economic development.

**Mission:**

To equip our undergraduate, postgraduate and doctoral students with advance knowledge through collaborative opportunities emerged from linkages with academia, industry and government.

**Quality Policy:**

In line with its vision and mission, the management and faculty have developed broad based Quality Management System in the University with a strong commitment to the following:

**1. Quality Brand**

University aims to be recognized for its leadership position in higher education through designing interactive courses and carrying out multidisciplinary research programs and projects that are distinctive and relevant to social needs, and are of national and international quality standards.

**2. Compliance with Statutory Requirements**

University ensures that every individual working for and / or studying in the University shall comply with the University Act, Statutes, Regulations and Rules.

**3. Stakeholders Focus**

University considers every stakeholder very important and therefore endeavors to provide encouraging, flexible, empowered, cohesive and congenial working environment to assimilate, synthesize and analyze knowledge for the ultimate benefit of academia, industry, government and society.

**4. Student Focus**

University considers students as its direct customers and is committed to produce highly qualified manpower related to multidisciplinary engineering and technology, policy and management and business fields. University ensures meeting students' professional needs and expectations and appreciates their participatory role in maintaining progressive learning environment.

**5. Knowledge Creation and Dissemination**

University is focused on conducting multidisciplinary research in order to create knowledge to resolve political, technological, social and environmental issues and to disseminate this knowledge through trainings, workshops, conferences and research journals to various national and international institutions.

**6. Business Startup**

University is focused on facilitating startups and creating businesses based on multidisciplinary fields.

**7. Linkages and Networking**

University establishes strong ties with various national and international universities, industries and government.

**8. Optimization of Resources**

University is focused that the human capital, infrastructure and financial resources must be utilized optimally for accruing and sustaining benefits.

**9. Environment Friendly**

University is committed to make our University environment safest, greenest and cleanest in the region.

**10. Continual Improvement**

University is committed to provide a rewarding and challenging environment for faculty, staff and students to kindle and sustain a passion for excellence.

## **PROGRAM LEARNING OUTCOMES (PLOS) FOR B.E. PROGRAMS**

### **Introduction**

The twelve graduate attributes provided by the PEC as per Manual of Accreditation 2019 (3<sup>rd</sup> Edition) have been adopted as the PLOs for its Bachelor of Engineering Programs in MUET, Jamshoro and its campus. It is ensured that these PLOs are achieved by respective CLOs of Engineering curriculum as assessed through both direct and indirect methods.

### **List of PLOs**

The twelve PLOs for Undergraduate (B.E) Engineering Program are:

1. **GA1 Engineering Knowledge:** An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. **GA2 Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **GA3 Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
4. **GA4 Investigation:** An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
5. **GA5 Modern Tool Usage:** An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.
6. **GA6 The Engineer and Society:** An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
7. **GA7 Environment and Sustainability:** An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for, sustainable development.
8. **GA8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
9. **GA9 Individual and Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.
10. **GA10 Communication:** An ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **GA11 Project Management:** An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.
12. **GA12 Lifelong Learning:** An ability to recognize the need for, and have the preparation and ability to engage in, independent and life-long learning in the broadest context of technological change.

### UNIVERSITY OF TODAY – WORKING FOR TOMORROW

- Ranked 351<sup>st</sup> in QS World University Rankings
- Ranked 2<sup>nd</sup> in UI GreenMetric World University Rankings
- Ranked 2<sup>nd</sup> in Public Sector Engineering University in Pakistan and 1<sup>st</sup> in Sindh Province in HEC Rankings.
- 14 Patents registered
- Lifelong Learning Resource Centre Established
- FM Radio Frequency 96.2 Allotted
- Five start-up Companies Registered
- 200+ PHD faculty members
- Internationally published books by faculty
- First ever UNESCO/ICTP Regional Workshop on “FGPA Design for scientific instrumentation” held at MUET ([indico.ictp.it/event/a14228/](http://indico.ictp.it/event/a14228/))
- Innovation & Entrepreneurship Centre (IEC) Established ([iec.muuet.edu.pk](http://iec.muuet.edu.pk))
- US-Pak center for advanced studies in Water (USPCAS-W) Established ([Water.muuet.edu.pk](http://Water.muuet.edu.pk))
- Baby Day Care Centre Established
- Establishment of Society of Women Engineers (SWE)
- Establishment of Student international societies and Chapters
- International Science-Policy Conference on Climate Change in Pakistan, held at Islamabad ([sp3c.com.pk](http://sp3c.com.pk))
- 18 international conferences in last 4 years
- Organized conferences in Spain, Malaysia, Nepal and Ireland
- Collaborative linkages with International/National Universities and Industries
- Leading partner university in Erasmus Mundus, European Mobility Program
- First time in MUET history, more than 80 companies participated in Job Fair
- Students Financial Aid Office providing scholarships to more than 40% students
- Social events (Alumni reunion, Model United Nations, Big Event, MUET Gala)
- Serving communities through Corporate Social Responsibility (CSR) program
- DICE Energy & Water (DEW’1 First ever in history of MUET ([dew.muuet.edu.pk](http://dew.muuet.edu.pk)))
- Gender policy introduced by MUET, Jamshoro at: ([www.muuet.edu.pk/sites/default/files/MUET-Gender-Policy-Statement.pdf](http://www.muuet.edu.pk/sites/default/files/MUET-Gender-Policy-Statement.pdf))
- Providing continuously National Freelance Training Program to students in different trades
- Establishment of Business Incubation Center of HEC proudly led by Mehran University in Consortium
- Mehran University publishes its own research Journal since 1982, which has now been recognized by leading indexes.
- Recently launched first research journal in social sciences named ‘Repertus’ which specifically focuses on language research
- Mehran UET has been selected amongst 8 Pakistansni Universities for Kamyab Jawan Program
- Mehran UET students and teachers have won numerous awards in the field of research, education and knowledge in Qatar, China, USA and many other countries.

# ACADEMIC CALENDAR FOR BACHELOR'S DEGREE PROGRAMS

## FOR THE ACADEMIC YEAR 2022-23

<b>Duration of a Semester:</b>		<b>Duration of a Year:</b>	
Teaching	16 Weeks	Duration of Two Semesters	21x2 = 42 Weeks
Mid Semester Exam	01 Week	Duration of Summer Vacation / Summer Semester	8.5 Weeks
Final Semester Exam Preparation	01 Week	Duration of Winter Break	1.5 Weeks
Final Semester Exam Conduct	02 Weeks	<b>Total:</b>	<b>52 Weeks</b>
Semester Break	01 Week		
<b>Total:</b>	<b>21 Weeks</b>		

Minimum attendance requirement to be eligible to appear in the Semester Examination is 75%.  
 Number of Lectures during the Semester in a subject of 3 CH & 2 CH shall be 48 & 32 respectively.  
 Number of contact hours for a practical of 1 CH per Semester is 48.

### SEMESTER: FALL 2022

Batch & Semester	22-Batch (1 <sup>st</sup> Semester)	21-Batch (3 <sup>rd</sup> Semester)	20-Batch (5 <sup>th</sup> Semester)	19-Batch (7 <sup>th</sup> Semester)	18AR-Batch (9 <sup>th</sup> Semester)
<b>Date of Start of Classes</b>	21-11-2022	21-11-2022	12-12-2022	12-12-2022	07-11-2022
<b>Winter Vacation</b>	24-12-2022 to 01-01-2023				
<b>Conduct of Mid Semester Exam</b>	23-01-2023	23-01-2023	13-02-2023	13-02-2023	09-01-2023
<b>Date of Suspension of Classes</b>	24-03-2023	24-03-2023	07-04-2023	07-04-2023	10-03-2023
<b>Schedule of Examination</b>	25-03-2023	25-03-2023	08-04-2023	08-04-2023	11-03-2023
<b>Examination Preparation up to</b>	29-03-2023	29-03-2023	12-04-2023	12-04-2023	15-03-2023
<b>Conduct of Final Semester Exam</b>	30-03-2023	30-03-2023	13-04-2023	13-04-2023	16-03-2023
<b>Semester Break from</b>	22-04-2023	22-04-2023	29-04-2023	29-04-2023	15-04-2023
<b>Announcement of Result (Expected)</b>	22-04-2023	22-04-2023	05-05-2023	05-05-2023	02-05-2023
<b>Marksheet Issuance (Expected)</b>	24-04-2023	24-04-2023	08-05-2023	08-06-2023	05-05-2023

<b>Summer Vacation *</b>	<b>03-05-2023 to 02-07-2023</b>
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### SEMESTER: SPRING 2023

Batch & Semester	22-Batch (2 <sup>nd</sup> Semester)	21-Batch (4 <sup>th</sup> Semester)	20-Batch (6 <sup>th</sup> Semester)	19-Batch (8 <sup>th</sup> Semester)	18AR-Batch (10 <sup>th</sup> Semester)
<b>Date of Start of Classes</b>	03-07-2023	03-07-2023	03-07-2023	03-07-2023	17-04-2023
<b>Conduct of Mid Semester Exam</b>	28-08-2023	28-08-2023	28-08-2023	28-08-2023	07-08-2023
<b>Date of Suspension of Classes</b>	20-10-2023	20-10-2023	20-10-2023	20-10-2023	07-10-2023
<b>Schedule of Examination</b>	21-10-2023	21-10-2023	21-10-2023	21-10-2023	07-10-2023
<b>Examination Preparation up to</b>	25-10-2023	25-10-2023	25-10-2023	25-10-2023	13-10-2023
<b>Conduct of Final Semester Exam</b>	26-10-2023	26-10-2023	26-10-2023	26-10-2023	14-10-2023
<b>Announcement of Result (Expected)</b>	15-11-2023	15-11-2023	15-11-2023	15-11-2023	15-11-2023
<b>Marksheet Issuance (Expected)</b>	17-11-2023	17-11-2023	17-11-2023	17-11-2023	17-11-2023

### SUMMER SEMESTER 2023

	22-Batch (1 <sup>st</sup> Semester)	21-Batch (1 <sup>st</sup> to 3 <sup>rd</sup> Semester)	20-Batch (1 <sup>st</sup> to 5 <sup>th</sup> Semester)	19-Batch (1 <sup>st</sup> to 7 <sup>th</sup> Semester)	
<b>Start of Registration</b>	25-04-2023	25-04-2023	25-04-2023	25-04-2023	
<b>Start of Summer Semester</b>	03-05-2023	03-05-2023	03-05-2023	03-05-2023	
<b>End of Summer Semester</b>	28-06-2023	28-06-2023	28-06-2023	28-06-2023	

\* Faculty Summer Vacation: 15-05-2023 to 02-07-2023

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# 1. INTRODUCTION

## 1.1 The University

The Mehran University of Engineering and Technology is known as MUET or Mehran UET in short. It is a public sector university catering to the future engineering professionals' demand of the Sindh Province in particular and the country in the broader sense. It was initially established as Sindh University Engineering College of the University of Sindh 1963. Accordingly, the college was first declared as an additional campus of the University of Sindh headed by a Pro-Vice-Chancellor in July 1976 and later upgraded to the level of a full-fledged independent University on March 1, 1977 through an ordinance issued by the Governor of Sindh. The ordinance was later converted into an Act of the Provincial Assembly of Sindh Province. The new University was named as "Mehran University of Engineering and Technology, Nawabshah".

In 1980, the Government decided to shift Mehran UET to Jamshoro and the campus at Nawabshah was declared as a constituent college of Mehran UET and renamed the Campus as Mehran University College of Engineering and Technology (MUCET), Nawabshah". On 7<sup>th</sup> August 1996, MUCET was upgraded to the level of a university through an ordinance and later through an act of Sindh Assembly and was renamed as **Quaid-e-Awam University of Engineering, Science and Technology (QUEST), Nawabshah**. At present, QUEST is accredited with the Higher Education Commission (HEC), Pakistan Engineering Council (PEC) and is the member of Association of Commonwealth Universities.

In 2009, a constituent college named as 'Mehran University College of Engineering & Technology' was established at Khairpur Mirs' to cater the increasing demand of qualified engineers. Later on, in 2013, it was upgraded as MUET, SZAB Campus, Khairpur Mirs'.

The University has a mission to produce high-quality engineering, sciences and social sciences graduates with extraordinary skills to fulfill the rising demand of the industries and establish stronger linkages with the industries in order to better understand their present and future requirements.

Mehran UET has the honor of being the first Public Sector Engineering University of the country to have successfully obtained the ISO 9000 Certification. Mehran UET is also a member of the Association of Commonwealth Universities of the United Kingdom. In March 2021, HEC Quality Assurance Agency (QAA) confers the Excellent Performance Award upon MUET for the year (2018-2019) at the Annual Progress Review meeting.

QS World University Rankings ranked MUET among the top 351-400 universities of Asian in its ranking for 2020 and UI GreenMetric World University Rankings ranked MUET 298<sup>th</sup> globally and 8<sup>th</sup> nationally in its ranking for 2021. The HEC ranked MUET 1<sup>st</sup> in Sindh and 6<sup>th</sup> in Pakistan, in Engineering Category. Mehran UET has continuously been awarded "Excellent Performance Certificate" for last three years by HEC, Islamabad.

Besides, Mehran UET is focused on commercialization of research conducted on campus. In this process, a number of patterns have been filed nationally and internationally and startups have been established as registered companies.

The University has been organizing conferences and workshops nationally and internationally on regular basis.



## 1.2 Officers of the University

The principal Officers of the University, responsible for the overall administration, academic activities, and development work in the University.

Sr. No.	Post	Name	Phone
1.	Vice-Chancellor	Prof. Dr. Tauha Hussain Ali	022-2771197
2.	Pro-Vice-Chancellor Main Campus, Jamshoro	Prof. Dr. Tauha Hussain Ali	022-2771360
3.	Pro-Vice-Chancellor MUET, SZAB Campus, Khairpur Mir's	Prof. Dr. Abdul Sami Qureshi	0243-9280312
4.	Dean, Faculty of Architecture and Civil Engineering	Prof. Dr. Khan Mohammad Brohi	022-2771638
5.	Dean, Faculty of Electrical, Electronic and Computer Engineering	Prof. Dr. Mukhtiar Ali Unar	022-2771558
6.	Dean, Faculty of Mechanical Process and Earth Engineering	Prof. Dr. Khanji Harijan	022-2771312
7.	Dean, Faculty of Science, Technology and Humanities	Prof. Dr. Aneel Kumar	022-2771352
8.	Registrar	Mr. Lachman Das Sootahar	022-2771371
9.	Director Finance	Mr. Zeeshan Ahmed Memon	022-2771442
10.	Controller of Examinations	Mr. Khalid Feroz Channa	022-2771631
11.	Director Admissions	Mr. Saleem Siddiqui	022-2771704
12.	Director, Works & Strategic Planning	Mr. Saghir Ahmed Memon	022-2771311
13.	Director Services	Mr. Qazi Riaz Hassan Qureshi	022-2109073
14.	Resident Auditor	Mr. Sagheer Ahmed Chandio	022-2772285
15.	Director, MIS	Engr. Sayed Muhammad Raza Shah	022-2771275
16.	Director, ICPC	<b>Engr. Saleem Ahmed Memon</b>	022-2772250
17.	Advisor Students' Affairs	Prof. Dr. Tanweer Hussain	022-2772251
18.	Librarian	Mr. Zahid Hussain Sahito	022-2771169
19.	Provost (Hostels)	Prof. Ghulam Abbas Mahar	022-2772299

## **2. DEPARTMENT OF CIVIL ENGINEERING**

### **BS in Civil Engineering Technology Program**

#### **2.1 The Department:**

Civil Engineering is the process of directing and controlling natural resources for the use and benefit of humankind through the construction of various structures. It applies engineering practices to the planning and designing, construction, operation and maintenance of structures such as buildings, roads, bridges, railways, industries, airports, irrigation schemes, docks, harbors, dams, flood control systems, water supply, sewerage disposal schemes, etc.

The Department of Civil Engineering is the biggest department of the University in terms of infrastructure, student enrollment and faculty. It provides essential and advanced engineering and technology education according to the requirements of the field. All the classrooms of the department are equipped with audio-visual facilities. The laboratories have the latest equipment and tools. Highly experienced faculty and technical staff are available to supervise the laboratories.

The Department of Civil Engineering has successfully adopted Outcome Based Education (OBE) system to meet the criteria of Pakistan Engineering Council (PEC) as per the Washington Accord. All the class tests, class & field assignments and semester exams are being assessed based on specific course learning objectives associated with each course.

A 4-year degree program entitled BS in Civil Engineering Technology provides the bright students an opportunity to realize their dream as Technologists by advancing their higher education in technical fields. The designed curriculum of Civil Engineering Technology covers a wide range of various sub-discipline including Structure, Concrete Technology, Geotechnical, Foundation Engineering and Design, Irrigation & Drainage, Transportation Engineering, Environmental, Construction etc. The courses also provide the knowledge about operation and maintenance of Civil Engineering Technology projects. Various subjects require tutorials and laboratory work, for which adequate facilities and equipment are available.

The student-centric approach of the department focuses on outcomes from the individual student by the end of the course. Final year students also discover the various specialization fields through the Final Year Project assigned to them. The thesis projects may be specific to a particular branch of Civil Engineering like Structural Engineering, Geotechnical Engineering, Irrigation Engineering, Highway Engineering and Construction Management etc.

Besides, the students go to the field visits of the Civil Engineering projects such as water distribution structures, bridge & building structures, geotechnical works etc. During the summer vacations, the students are involved in various Civil Engineering projects in the form of internship in the organizations such as WAPDA, NESPAK, NHA, Works and Services Department, Irrigation Department, etc. These internships help them to gain practical engineering knowledge. The Survey Camp is conducted which consists of surveying activities such as levelling, traversing and detailing, and also introduces the usage of latest technologies of surveying tools in civil engineering projects.

#### **Vision of the Department**

The vision of the Department of Civil Engineering is to become an institution that provides state-of-the-art education to aspiring civil engineering and Technology graduates, and to evolve as a research-based solution provider to the civil engineering industry.

#### **Mission of the Program**

BS Civil Engineering Technology program aims at providing state of the art education to produce highly skilled professionals for significant contribution in the socio-economic development locally and globally.

## Program Educational Objectives (PEOs)

1. A thorough grip on use of best practices related to Civil Engineering Technology in construction, operation and management of various organizations. Function in team-oriented activities considering the societal, environmental, and economic impacts.
2. Expertise to play significant role in sustainable development of society at national and global levels.
3. Passion for professional advancement and innovation through lifelong learning.

## 2.2 The Faculty:

### Chairman of the Department

**Prof. Dr. Rizwan Ali Memon**

Phone: 022-2772254-72 / Ext.: 7100

### PROFESSORS:

**Dr. Tauha Hussain Ali**  
PhD, Australia.

**Dr. Aneel Kumar**  
PhD, Japan.

**Dr. Rizwan Ali Memon**  
PhD, Pakistan.

**Dr. Khalifa Qasim Laghari**  
PhD, Pakistan.

**Dr. Ashfaque Ahmed Memon**  
PhD, Pakistan.

**Dr. Agha Faisal Habib**  
PhD, United Kingdom.

**Dr. Zaheer Ahmed Almani**  
PhD, United Kingdom.

**Dr. Fareed Ahmed Memon**  
PhD, Malaysia.

**Dr. Naeem Aziz Memon**  
PhD, United Kingdom.

**Dr. Ashfaque Ahmed Pathan**  
PhD, Pakistan.

**ASSISTANT PROFESSORS:**  
**Mr. Jawaid Kamal Ansari**  
M.E, Pakistan.

**Mr. Arshad Ali Memon**  
M.E., Pakistan.

**Mr. Samar Hussain Rizvi**  
M.E, Pakistan.

**Mr. Azizullah Jamali**  
M.E, Pakistan.

**Mr. Amjad Ali Pathan**  
M.E, Pakistan.

**Mr. Masroor Ali Jatoi**  
M.E., Pakistan.

**Mr. Abdul Raqeeb Memon**  
M.E, Pakistan.

**Dr. Ali Raza Khoso**  
PhD, Malaysia.

**LECTURERS:**  
**Mr. Shabir Hussain Khero**  
M.E, Malaysia. (On Lien)

**Mr. Farhan Qureshi**  
M.E, Pakistan.

**Mr. Ali Murtaza Phull**  
(On Study Leave Abroad)

**Mr. Fahad Ali Shaikh**  
M.E, Pakistan.

**Mr. Fida Hussain Siddiqui**  
(On Study Leave Abroad)

**Mr. Anees Raja**  
(On Study Leave Abroad)

**Mr. M. Rehan Hakro**  
M.E, Malaysia.

**Mr. Lal Chand**  
M.E, Pakistan.

**Mr. Shankar Lal Meghwar**  
(On Study Leave Abroad)

**Mr. Muhammad Ali Moriyani**  
(On Study Leave Abroad).

**Mr. Anees Ahmed Vighio**  
(On Study Leave Abroad).

**Mr. Manoj Kumar Sutehar**  
M.E, Pakistan.

**Mr. Rabinder Kumar Lohano**  
M.E, Malaysia.

**Mr. Hafiz Usama Imad**  
M.E, Pakistan.

**Mr. Abdul Qudoos Malano**  
M.E, Pakistan.

**Mr. Izat Ali Sahito**  
M.E, Pakistan.

## 2.3 Library Facilities:

The Department of Civil Engineering has a well-furnished Seminar library. The seminar library has a wide collection of about 1100 books encompassing all the areas related to the field of Civil Engineering Technology.

## 2.4 The Courses:

1 <sup>st</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	CH-112	Islamic Studies / Ethics	2	0
	CS-113	Linear Algebra and Calculus	3	0
	CS-123	Introduction to Computer Fundamentals	1	2
	CT-113	Civil Engineering Drawing	1	2
	CT-124	Surveying & Levelling	2	2
	CT-133	Applied Mechanics	2	1
<b>Total</b>			<b>11</b>	<b>7</b>

2 <sup>nd</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	CT-134	Concrete Technology	2	2
	CH-123	Communication Skills	3	0
	CH-133	Pakistan Studies	2	0
	CT-144	Materials and Methods of Building Construction	2	2
	CS-133	Differential Equations	3	0
<b>Total</b>			<b>12</b>	<b>4</b>

3 <sup>rd</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	CT-212	Introduction to Architecture and Town Planning	2	0
	CM-212	Occupational Health & safety Management	2	0
	CT-223	Quantity Surveying and Contract Documents	1	2
	CT-233	Soil Mechanics	2	1
	CT-243	Fluid Mechanics	2	1
	CT-254	Mechanics of Solids	2	2
<b>Total</b>			<b>11</b>	<b>6</b>

4 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	CT-263	Transportation Engineering	2	1
	CT-273	Water Supply & Waste Water Management	2	1
	CT-283	Hydrology	2	1
	CT-292	Theory of Structures	2	0
	CH-213	Technical Report Writing	3	0
	CS-213	Probability and statistics	3	0
<b>Total</b>			<b>14</b>	<b>3</b>

5 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	CM-313	Environmental Engineering & Management	2	1
	CT-313	Reinforced Concrete Structures	2	1
	CT-323	Construction and Hydraulic Machinery	2	1
	CT-333	Computer Aided Building Modeling and Design	1	2
	CT-343	Foundation Engineering	2	1
	CM-323	Project Management	3	0
<b>Total</b>			<b>12</b>	<b>6</b>

	Course Code	Subject	Credit Hours	
			Theory	Practical
6 <sup>th</sup> Semester	CT-353	Pre-stressed & Precast concrete	2	1
	CT-363	Highway Engineering	2	1
	CT-373	Geology & Earthquake Engineering	2	1
	CT-383	Irrigation and Hydraulic Structures	2	1
	CT-393	Steel Structures	2	1
	CT-3103	Project	0	3
		<b>(Summer Project Work)</b>		
	CT-3113	Project	0	3
		<b>Total</b>	<b>10</b>	<b>11</b>

	Course Code	Course Title	Credit Hours	
			Theory	Practical
7 <sup>th</sup> Semester	CT-4116	16 Weeks Supervised Industrial / Field Training (8 x 5 = 40 hrs. / Week)	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

	Course Code	Course Title	Credit Hours	
			Theory	Practical
8 <sup>th</sup> Semester	CT-4216	16 Weeks Supervised Industrial / Field Training (8 x 5 = 40 hrs. / Week)	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

## 2.5 Career Opportunities:

Graduates find diverse work as civil engineering technologists. Potential positions include Civil Engineering Design Technologist, Traffic Technologist, Building Inspector, Material Testing Technologist, Estimator and Construction Project Coordinator.

Typical employment sectors for civil engineering technologists include, consulting firms, contractors, local authorities, public sector departments (Buildings, Highways, Railways, Airports, Irrigation, Water and Power, Ports etc.), non-profit and research organizations.

## 3. DEPARTMENT OF ELECTRICAL ENGINEERING

### B.S in Electrical Engineering Technology Program

#### 3.1 The Department

Electrical Engineering is a branch of Engineering concerned with the study and application of electricity, electronics and electromagnetism. It also deals with the large-scale electrical systems such as power generation, transmission, distribution and utilization of electrical energy.

The department of Electrical Engineering is one of the oldest and prestigious department of the university supported and equipped with highly qualified faculty and technical staff. The department has 27 full-time faculty members. Several faculty members have won prestigious awards for their teaching and research work.

Our department labs serve not only undergraduate and postgraduate students but they also provide services to the public and private sectors like training, equipment testing, calibration and consultancy to academia & industry. Besides academic activities, the department's faculty and students are involved in research and development activities in collaboration with industries.

Increasing Electricity demands, urbanization, industrial growth and oil imports makes Pakistan as electrical deficit country, The Government of Pakistan is focusing for introduction of different technological needs with young professional to provide sufficient electrical technology-based education which can adopt conventional, renewable and hybrid power generation sources, integrate new technology for energy saving and help the industry and government in ever changing demand and policy.

Therefore, the department of Electrical Engineering is launching 04-year B.S program in Electrical Engineering Technology along with existing programs. This new program deals with the design, application, installation, manufacturing, operation or maintenance of electrical/power systems that are helpful in the electrical equipment & system manufacturing companies, power generation and transmission sector, telecommunication, railways, IT & public sector organizations, and research & design industries.

#### **Vision of the Department:**

The vision of the Department of Electrical Engineering Technology is to become an institution that provides state-of-the-art education to aspiring electrical graduates, and to evolve as a research-based solution provider to the electrical engineering industry.

#### **Mission of the Program:**

The mission of Department of Electrical Engineering Technology is to provide quality education emphasizing industrial sound application of engineering knowledge with technical skills to produce graduates who will become responsible, and contributing leaders in industry.

#### **Programme Education Objectives (PEOs):**

The Programme Educational Objectives of B.Sc. Electrical Engineering Technology Programme ensure that after '4 – Years' of graduation the professionals should be able to;

PEO 01: Formulate and resolve the engineering technology problems innovately.

PEO 02: Perform effectively as an individual and as a team member in professional environment.

PEO 03: Pursue professional growth through moral and continue learning attitude.

### 3.2 The Faculty

**Chairman of the Department:**  
**Prof. Dr. Ashfaque Ahmed Hashmani**  
Phone: 022-2771351

**Professors:**

**Dr. Muhammad Aslam Uqaili**

PhD, United Kingdom.

**Dr. Ashfaque Ahmed Hashmani**

PhD, Germany.

**Dr. Abdul Sattar Larik**

PhD, Pakistan.

**Dr. Zubair Ahmed Memon**

PhD, Pakistan.

**Dr. Syed Asif Ali Shah**

PhD, Austria.

**Dr. Mukhtiar Ahmed Mahar**

PhD, Pakistan.

**Dr. Ali Asghar Memon**

Ph.D. United Kingdom

**Associate Professors:**

**Dr. Amir Mahmood Soomro**

PhD, China.

**Dr. Anwar Ali Sahito**

PhD, Pakistan.

**Dr. Nayyar Hussain Mirjat**

PhD, Pakistan.

**Dr. Faheemullah Shaikh**

PhD, China.

**Dr. Mahesh Kumar Rathi**

PhD, Malaysia.

**Dr. Anwar Ahmed Memon**

PhD, Pakistan.

**Dr. Abdul Hakeem Memon**

PhD, China.

**Assistant Professors:**

**Mr. Noor Nabi Shaikh**

B.E, Pakistan.

**Mrs. Mokhi Maan Chang**

M.E, Pakistan.

**Mr. Muhammad Rashid Memon**

M.E, Pakistan.

**Mr. Mansoor Ahmed Soomro**

M.E, Pakistan.

**Mr. Zohaib Ahmed Leghari**

M.E, Pakistan.

**Mr. Shah Murad Tunio**

M.E, Pakistan. (On Lien)

**Mr. Abdul Jabbar Memon**

M.E, Pakistan.

**Mr. Shoaib Ahmed Khatri**

M.E, Pakistan.

(On Study Leave)

**Mr. Shafi Muhammad Jiskani**

M.E, Pakistan.

**Lecturers:**

**Mr. Abdul Latif Samoon**

M.E, Pakistan.

**Mr. Faheem Shafeeqe Channar**

M.E, Pakistan.

**Mr. Shoaib Shaikh**

M.E, Pakistan.

**Mr. Mustafa Memon**

M.E, Pakistan.

**Ms. Rabail Memon**

M.E, Pakistan.

### 3.3 Laboratory Facilities

It possesses state of the art laboratories and equipped with latest equipment up to mark for the electrical engineering program such as:

- Power System Lab
- Power Electronics Lab
- Electrical Machines Lab
- High Voltage Engineering Lab
- Clean Energy Lab
- Control and Automation Lab
- Electrical Circuit & Measurement Lab
- Equipment and Training Lab
- Applied Electricity Lab
- Communication Lab
- Computer Lab
- Advance Computer Lab
- Electrical Workshop Lab
- Electrical Power Transmission & Distribution Lab

### 3.4 The Courses

1 <sup>st</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	EH-112	Islamic Studies / Ethics	2	0
	ES-113	Applied Mathematics-I	3	0
	ES-123	Applied Physics	2	1
	ET-114	Linear Circuits Analysis	2	1
	ET-123	Engineering Drawing	1	2
	ES-133	Introduction to Computer Fundamentals	1	2
		<b>Total</b>	<b>11</b>	<b>6</b>

2 <sup>nd</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	EH-123	Communication Skills	3	0
	EH-132	Pakistan Studies	2	0
	ET-134	Electronics	2	2
	ET-143	Basic Mechanical Technology	2	1
	ES-143	Applied Mathematics – II	3	0
	ET-153	Electrical Machines – I	2	1
		<b>Total</b>	<b>14</b>	<b>4</b>

3 <sup>rd</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	ET-212	Power Generation Systems	2	0
	EH-213	Technical Report Writing	3	0
	ET-224	Electrical Instruments and Measurements	2	2
	ET-234	Electrical Machines - II	2	2
	ET-244	Digital Electronics	2	2
		<b>Total</b>	<b>11</b>	<b>6</b>

4 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	ET-254	AC Circuits Analysis	2	2
	ET-262	Electro-Magnetic Fields	2	0
	ET-273	Electrical Power Transmission	2	1
	ET-283	Electrical Power Distribution and Utilization	2	1
	ET-294	Power Electronics	2	2
		<b>Total</b>	<b>10</b>	<b>6</b>

5 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	ET-313	Micro-Processor Theory & Interfacing	2	1
	ET-323	Switch Gear & Protective Devices	2	1
	ET-334	Communications Technology	2	2
	ET-343	Control Technology	2	1
	EM-312	Total Quality Management	2	0
	ET-353	High Voltage Technology	2	1
		<b>Total</b>	<b>12</b>	<b>6</b>



6 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	EM-323	Project Management	3	0
	ET-362	Power System Analysis	2	0
	ET-374	Data & Computer Communication	2	2
	ET-384	Industrial Drives & PLC	2	2
	ET-393	Project	0	3
		<b>Total</b>	<b>9</b>	<b>7</b>

7 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
		Supervised Industrial Training	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

8 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
		Supervised Industrial Training	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

### 3.5 Career Opportunities

Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism. Electrical engineering is an amalgamation of what is now called electrical, electronics, communication, instrumentation and computer engineering. The well recognized branches of electrical engineering are power & energy, communications, robotics, electronics and control systems. In broader sense, this field covers a wide range of sub-disciplines including those that deal with power & energy, digital electronics, analogue electronics, artificial intelligence, control systems, electronics, signal processing and telecommunications. Overlapping of this field with computer has opened up the door to a career distribution in almost every industry. Following are the few companies and institutions in which the electrical graduates can find job.

1. WAPDA
2. Fertilizer Industries
3. Chemical Industries
4. Textile Industries
5. Pharmaceutical Companies
6. Mechanical & Automobile
7. K-Electric
8. Pakistan Atomic Energy Commission (PAEC)
9. Oil & Gas Companies
10. Research Institutes
11. Lucky Cement Factory
12. Al Rahim Textile Industries
13. KAD Consultants Electrical & Solar System Engineers
14. Dawlance United Refrigeration Industries Ltd.
15. Civil Aviation Authority
16. Johnson & Philips Pakistan Ltd
17. Tuwairqi Steel Mills Ltd.
18. National Transmission and Dispatch Company (NTDC) Ltd.
19. Philip Morris Pakistan Ltd.
20. Technology Links Pvt. Ltd
21. National Electric Power Regulatory Authority (NEPRA)
22. Distribution companies (HESCO, IESCO, PESCO, QUESCO etc.)
23. Sugar Industries
24. Karachi Port Trust (KPT)
25. Environmental Network International (ENI)

## **4. DEPARTMENT OF MECHANICAL ENGINEERING**

### **B.S in Mechanical Engineering Technology**

#### **4.1 The Department:**

Department of Mechanical Engineering was established in 1963. It is one of the prominent departments of the university with student's strength of about 550. The Department of Mechanical Engineering offers a full-time four years B.E degree program, with dedicated & well qualified faculty and staff who are strive to produce the engineers having the capabilities to contribute in exploration of affordable and sustainable development of the country.

Mechanical engineering department endeavors to produce engineers, technologist and researchers with sound knowledge of traditional and emerging areas of engineering together with innovative design abilities to achieve sustainable national development. Moreover, it attempts to develop the skill of the students to make them globally competitive engineers, technologist and researchers by providing quality education and research facilities.

The Department of Mechanical Engineering has successfully adopted Outcome Based Education (OBE) system to meet the criteria of Pakistan Engineering Council (PEC) as per the Washington Accord and is duly accredited by Pakistan Engineering Council (PEC) in level II. All the exams are being conducted and assessed through the course learning objectives associated with each course according to Outcome Based Education system. The department also offers the PhD programs in Manufacturing & Mechanical Engineering, and Masters Programs in Manufacturing & Energy System Engineering.

The Department of Mechanical Engineering is also actively engaged in the various curriculum & extra curriculum activities at the department level as well as University level such as seminars, workshops, training, industrial visits, short courses, sports events, debates, competitions etc.

In the recent decade, the Government of Pakistan has focused on the technical education in the country; in this regard many technical colleges are being upgraded to Technical Universities. Keeping in view ever changing demand of industries and government policies the Department of Mechanical Engineering launched the B.Sc. program in Mechanical Engineering Technology to cope the situation.

The main goal of Mechanical Engineering undergraduate programs is to produce the engineers and technologist who are globally competitive for the requirements of industries. The graduates become capable of taking leading positions in industry, academia nationally and internationally.

#### **Vision of the Department**

Mechanical Engineering Department intends to become a hub of high-quality engineering education and research so as to produces killed, innovative, entrepreneurial mechanical engineers who meet the ever-changing engineering demands.

#### **Mission of the Department**

Mechanical Engineering Department is to produce engineers and researchers with sound knowledge of traditional and emerging areas of engineering together with innovative design abilities to achieve sustainable having critical and innovative thinking and make them globally competitive.

#### **4.2 B.Sc. Program in Mechanical Engineering Technology:**

##### **Vision of Program**

To produce highly qualified persons which can understand complicated designs and to implement and create them to physical positions on the ground.

## Mission of Program

1. To produce experienced and knowledgeable technologists which can understand the information given to them in design and layout of any project or industry and construct it as per design and to achieve the sustainable socio-economic development through enterprises?
2. To prepare skilled professionals for a productive career in a competitive and technologically based society and advance the mechanical technology principles and applications to serve better.

## Program Education Objectives (PEOs)

- PEO – 1: Apply the concepts of basic technical knowledge and skills to solve industrial and technical problems in mechanical related technology.
- PEO – 2: To meet the requirements of rapid changing/growing technologies in the world.
- PEO – 3: To provide experienced and technical hands.

## 4.3 The Faculty:

### Chairman of the Department:

**Prof. Dr. Abdul Fatah Abbasi**

Phone: +92-022- 2771275, 022-22772250-70 / Ext.: 2300

### PROFESSORS:

**Dr. Abdul Fatah Abbasi**  
PhD, Pakistan.

**Dr. Khanji Harijan**  
PhD, Pakistan.

**Dr. Rizwan Ahmed Memon**  
PhD, Hong Kong.

**Dr. Dur Muhammad Pathan**  
PhD, Pakistan.

**Dr. Tanweer Hussain Phulpoto**  
PhD, United Kingdom.

**Dr. Abdul Ghafoor Memon**  
PhD, Pakistan.

**ASSISTANT PROFESSORS:**  
**Engr. Shoukat Ali Memon**  
B.E, Pakistan.

### WORKSHOP INSTRUCTORS:

**Engr. Ameer Ali Memon**  
B.E, Pakistan.  
(Workshop Superintendent)

**Engr. Afaque Rafique Memon**  
M.E., China (PhD in Progress).

**Engr. Muhammad Jurial Sangi**  
M.E, Pakistan.

**Engr. Muhammad Sharif Jamali**  
M.E, Pakistan.

**Engr. M. Atif Qaimkhani**  
M.E, Pakistan.

**Engr. Imtiaz Ali Memon**  
M.E, Pakistan.

**Dr. Laveet Kumar**  
PhD, Malaysia.

**LECTURERS:**  
**Engr. Javed Rehman Larik**  
M.E, Pakistan.

**Engr. Zain-ul-Abdin Qureshi**  
(ME in Progress)

**Engr. Pir Jawaid Ahmed Sarhandi**  
B.E, Pakistan.

**Mr. Jameel Ahmed Mangi**  
B.Tech. (Hons), Pakistan.

**Engr. Aurangzeb Halepoto**  
B.E, Pakistan.

**Engr. Roshan Kumar**  
M.E, Pakistan (On Study Leave)

**Engr. Abdul Hafeez Khoharo**  
M.E, Pakistan. (On Study Leave)

**Engr. Samiullah Qureshi**  
M.E, Pakistan (On Study Leave)

**Engr. Farhan Haider Joyo**  
M.E, Pakistan.

**Engr. Muhammad Waqas Chandio**  
M.E, Pakistan.

**Engr. Intizar Ali Tunio**  
M.E, Pakistan.

**Engr. Ans Memon**  
M.E, Pakistan.

**Mr. Abdul Qadir Jamali**  
B.Tech. (Hons), Pakistan.

**Mr. Saddaruddin Chandio**  
B.Tech. (Hons), Pakistan.

**Engr. Jamaluddin Veenjher**  
B.E, Pakistan.

#### 4.4 Laboratories & Library Facilities:

The Department of Mechanical Engineering has following laboratories. All the laboratories are well equipped with latest and conventional Equipments.

- Energy Technology Laboratory
- Heat Transfer Laboratory
- Refrigeration & Air Conditioning (HVAC)
- Aerodynamics Laboratory
- Engineering Mechanics Laboratory
- Mechanics of Machines Laboratory
- Thermal Power Plant Laboratory
- Fluid Mechanics Laboratory
- Instrumentation Laboratory
- Control Engineering Laboratory
- Thermodynamics Laboratory
- Mechanical Vibrations Laboratory
- Material Testing Laboratory
- Automobile Laboratory
- Mechanical Engineering Workshop
- Computer & Modelling Simulation Laboratory
- Drawing Hall
- Seminar Library

#### 4.5 The Courses:

##### Scheme of Studies: B.S Mechanical Engineering Technology

1 <sup>st</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MH-112	Islamic Studies/ Ethics	2	0
	MS-113	Applied Physics	2	1
	MS-123	Linear Algebra and Calculus	3	0
	MS-133	Applied Chemistry	2	1
	MS-143	Introduction to Computer Fundamentals	1	2
	MT-113	Workshop Technology	1	2
		<b>Total</b>	<b>11</b>	<b>6</b>

2 <sup>nd</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MS-153	Differential Equations	3	0
	MH-122	Pakistan Studies	2	0
	MT-124	Technical Drawing and CAD-1	2	2
	MT-134	Applied Thermodynamics- 1	2	2
	MT-144	Basic Electrical & Electronics	2	2
		<b>Total</b>	<b>11</b>	<b>6</b>

3 <sup>rd</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MH-213	Communication Skills	3	0
	MT-213	CAD - II	0	3
	MT-223	Engineering Statics	2	1
	MT-233	Mechanics of Material	2	1
	MT-243	Applied Thermodynamics - II	2	1
		<b>Total</b>	<b>9</b>	<b>6</b>

4 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MT-253	Engineering Dynamics	2	1
	MT-264	Fluid Mechanics	2	2
	MT-273	Industrial Material	2	1
	MS-213	Probability and Statistics	3	0
	MM-212	Total Quality Management	2	0
	MH-223	Technical Report Writing	3	0
		<b>Total</b>	<b>14</b>	<b>4</b>

5 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MT-313	Heat Transfer	2	1
	MT-324	I C Engine	2	2
	MT-333	Machine Design	2	1
	MT-343	Manufacturing Process	2	1
	MM-313	Instrumentation and Control	2	1
	MH-312	Engineering Economics	2	0
		<b>Total</b>	<b>12</b>	<b>6</b>

6 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MT-353	Project Management	3	0
	MT-363	Mechanical Vibrations	2	1
	MT-373	Refrigeration & Air Conditioning	2	1
	MT-384	Material Handling and Safety	3	1
	MT-393	Project	0	3
		<b>6th Semester Third Year Summer Project Work:</b>		
	MT-3103	Project (Continue)	0	3
		<b>Total</b>	<b>10</b>	<b>9</b>

7 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MT- 4216	16 Weeks Supervised Industrial / Field Training (8x5=40 Hrs / Week)	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

8 <sup>th</sup> Semester	Course Code	Subject	Credit Hours	
			Theory	Practical
	MT- 4216	16 Weeks Supervised Industrial / Field Training (8x5=40 Hrs / Week)	0	16
		<b>Total</b>	<b>0</b>	<b>16</b>

#### 4.6 Career Opportunities

After completion of four-year BS degree program in mechanical engineering technology, the graduates will find diverse jobs in the field of mechanical engineering as a mechanical technologist in private and public sector institutions.

#### **5.1 The Department:**

The Department of Telecommunication Engineering, Mehran University of Engineering and Technology (MUET), Jamshoro was established in the year 2001. In fact, it was the first ever department to offer a full-time four-year Bachelor of Engineering degree program in any public sector university of Pakistan. Since then, it enables students to develop and enhance understanding of both theoretical and applied knowledge of the fundamentals of Telecommunication Engineering and Networking.

In last 20 years, graduates of this Institute have established their footprint in leading telecommunication industries of Pakistan and they are playing vital role in Information and Communications Technology (ICT) development. The opportunities for telecommunication engineers have been further extended with the emerging growth of 4G/5G mobile networks.

The Department of Telecommunication offers congenial environment for events, seminars, workshops and technical sessions in accordance with international standards. We have well-equipped laboratories and state-of-the-art equipment for experimental and research work.

The Department of Telecommunication has successfully adopted Outcome Based Education (OBE) system and has been accredited with Level II by Pakistan Engineering Council (PEC).

#### **5.2 Bachelor of Science in Cyber Security:**

The establishment of Department of Telecommunication, MUET in 2001 was to produce graduates to meet the market requirement in the areas such as Mobile and Wireless Communication, Multimedia and Broadband Communication, Communication Networks etc. Since then, ICT industry has evolved and new avenues such as Cyber Security has become the mainstream concern of technology industries these days. Previously it was only required for the government agencies and defense sector but currently even industries like health, banking, finance, manufacturing and social media require the expertise in the field of Cyber Security. With high demand in market, the Bachelor of Science in Cyber Security program intends to produce skilled professionals to work as Security Analyst, Security Engineer, Security Architect, Security Administrator, Security Software Developer, Cryptographer, Cryptanalyst and Security Consultant among others.

#### **Mission of Program**

Our mission is to teach and prepare computer scientists equipped with cyber security skills to cope with challenging issues of cyber world. The key objective of our program is to contribute to society through knowledge and skills that help in dealing with cyber threats/attacks and ensure secure cyber world from external cyber-attacks.

### 5.3 The Faculty:

**Chairman of the Department:**  
**Dr. Aftab Ahmed Memon**

**MERITORIOUS PROFESSOR:**  
**Dr. Aftab Ahmed Memon**  
Ph.D. Japan

**PROFESSOR:**  
**Dr. Abdul Waheed Umrani**  
Ph.D. Singapore

**Dr. Faisal Karim Shaikh**  
Ph.D. Germany

**ASSOCIATE PROFESSOR:**  
**Dr. Fahim Aziz Umrani**  
Ph.D. United Kingdom

**Dr. Abdul Latif Memon**  
Ph.D. China

**Dr. Imran Ali Qureshi**  
Ph.D. China

**Dr. Faheem Yar Khuhawar**  
Ph.D. Italy

**Dr. Sajjad Ali Memon**  
Ph.D. China

**Dr. Nasrullah Pirzada**  
Ph.D. Malaysia

**Dr. Badar Munir**  
Ph.D. China

**Dr. Zafi Sherhan Shah**  
Ph.D. United Kingdom

**ASSISTANT PROFESSORS:**  
**Dr. Faisal Ahmed Memon**  
Ph.D. Italy

**Dr. Abi Waqas Memon**  
Ph.D. Italy

**Dr. Umair Ahmed Korai**  
Ph.D. United Kingdom

**Engr. Nafeesa Bohra**  
M.E. Pakistan

**Engr. Naeem Aijaz Yousfani**  
M.E. Pakistan

**Engr. Zulfiqar Ali Arain**  
M.E. Pakistan

**Engr. Syed Mohsin Ali Shah**  
M.E. Pakistan

**Engr. Shanzah Mohsin**  
M.E. Pakistan

**Engr. Riaz Ahmed Soomro**  
M.E. Pakistan

**Engr. Saima Hafeez**  
M.E. Pakistan

**Engr. Shakeel A. Laghari**  
M.E. Pakistan

**Engr. Mehran M. Memon**  
On Study Leave  
M.E. Malaysia

**Engr. Saadullah Kalwar**  
On Study Leave  
M.E. Pakistan

**Engr. Hyder Bux Mangrio**  
M.E. Pakistan

**Engr. Syed Rizwan Ali Shah**  
M.E. Pakistan

**LECTURERS:**  
**Engr. Umair M. Qureshi**  
On Study Leave  
M.E. Pakistan

**Engr. Zuneera A. Memon**  
On Study Leave  
M.E. Pakistan

**Engr. Anum Talpur**  
On Study Leave  
M.E. Pakistan

### 5.4 Laboratory Facilities:

The department of Telecommunication Engineering is equipped with required facilities, tools and equipment to conduct experiments in field of Cyber Security.

Following laboratories are available at the Department of Telecommunication, MUET, Jamshoro;

1. Analog and Digital Communication Laboratory
2. Project Laboratory
3. Transmission and Switching Laboratory
4. Networking and Protocol Design Laboratory
5. Optical Communication and Photonics Laboratory
6. PC Laboratory I
7. Cyber Security Laboratory
8. Cellular Communications Laboratory
9. Advanced Computing Laboratory
10. Digital Signal Processing Laboratory
11. Radio Communication Laboratory
12. Internet of Things (IoT) Laboratory

## 5.5 The Courses:

1 <sup>st</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CSC110	Introduction to Information and Communication Technologies	02	01
	CSC120	Programming Fundamentals	03	01
	CSC130	Discrete Structures	03	00
	MATH108	Applied Calculus	03	00
	ENG101	Functional English	03	00
		<b>Total</b>	<b>14</b>	<b>02</b>

2 <sup>nd</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CSC140	Object Oriented Programming	03	01
	SWE110	Database Systems	03	01
	MATH112	Linear Algebra and Analytical Geometry	03	00
	ENG102	Communication Skills	03	00
	IS111 / SS104	Islamic Studies / Ethics	02	00
	PS106	Pakistan Studies	02	00
		<b>Total</b>	<b>16</b>	<b>02</b>

3 <sup>rd</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CSC210	Data Structures and Algorithms	03	01
	CYS210	Information Security	03	00
	ES215	Digital Logic Design	03	01
	MATH224	Differential Equations	03	00
		<b>Total</b>	<b>12</b>	<b>02</b>

4 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	SWE210	Operating Systems	03	01
	CYS250	Computer Networks	03	01
	CSC220	Computer Organization and Assembly Language	03	01
	CYS260	Professional Practices	03	00
	MATH214	Statistics and Probability	03	00
		<b>Total</b>	<b>15</b>	<b>02</b>

5 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CSC320	Artificial Intelligence	03	01
	CSC330	Analysis of Algorithms	03	00
	CYS320	Introduction to Cyber Security	03	00
	CYS330	Information Assurance	03	00
	CYS340	Cyber Security Elective-I	03	00
		<b>Total</b>	<b>15</b>	<b>01</b>



6 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CYS350	Digital Forensics	02	01
	CYS360	Network Security	02	01
	SWE310	Software Engineering	03	00
	CYS380	University Elective-I	02	01
	CYS390	Cyber Security Elective-II	03	00
	ENG301	Technical and Business Writing	03	0
		<b>Total</b>	<b>15</b>	<b>03</b>

7 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	CYS400	Vulnerability Assessment and Reverse Engineering	02	01
	CYS410	Blockchain Technologies	03	00
	CYS420	University Elective-II	02	01
	CYS430	University Elective-III	02	00
	CYS440	Cyber Security Elective-III	03	00
	CYS498	Thesis/Project-I	00	03
		<b>Total</b>	<b>12</b>	<b>05</b>

8 <sup>th</sup> Semester	Course Code	Subject Name	Credit Hours	
			Theory	Practical
	SWE420	Secure Software Design and Development	02	01
	CYS460	University Elective-IV	02	01
	CYS470	University Elective-V	02	00
	CYS480	Cyber Security Elective-IV	02	01
	CYS499	Thesis/Project-II	00	03
		<b>Total</b>	<b>08</b>	<b>06</b>

## 5.6 Career Opportunities

Cyber Security work within a number of industries based on Internet and computing technologies, telephone networks, radio wave transmission and reception, satellite communication, radar and navigation, etc.

Graduates of Cyber Security Program can apply technical knowledge and expertise to work as Security Analyst, Security Administrator, Cryptanalyst as well as for managerial jobs such as Security Consultant. Many posts include elements of both managerial and technical responsibilities. The technical aspect of the role includes using specialist knowledge to design and deliver solutions, as well as providing technical guidance and security assurance to others within the organization.

- **Industries in Pakistan**

- Pakistan Telecommunication Corporation Limited (PTCL)
- Pakistan Telecommunication Authority (PTA)
- Wateen Telecom
- Warid Telecom
- Jazz (VimpelCom and Dhab Group)
- Telenor (Telenor Group)
- Zong (China Mobile)
- Ufone (PTCL+Ehtisalat)
- SCO (Special Communication Organization initially started from Azad Kashmir and Gilgit Baltistan, now available throughout Pakistan)
- Telecard Limited
- Wi-Tribe Pakistan Limited
- DV Com Data (Pvt.) Limited

- WorldCall Telecom Ltd.
  - Cyber Internet Services Limited
  - LINKDotNET Telecom Ltd.
  - Super Dialogue (Pvt.)
  - MyTel (Pvt.) Ltd.
  - Metrotel (Pvt.) Ltd.
  - Sharp Communications (Pvt.) Ltd.
  - Multinet Pakistan
  - EZY Pakistan
  - New Horizon Pakistan
- **Vendors in Pakistan**
    - Nokia Siemens Networks (NSN) – Huawei
    - Ericson
    - ZTE
    - Nortel
    - Myson Telecom
    - Combit Telecom
    - People’s Logic Telecom
- **Satellite TV channels in Pakistan**
    - Numerous groups of channels such as Sindh TV, Geo Group, Dawn Group etc.
- **Pakistan Forces**
    - Pakistan Army (Communication Core)
    - Pakistan Navy (Communication Sector)
    - Pakistan Air Force (Communication Sector)
    - Maritime Technologies Complex (MTC)
    - Pakistan Space and Upper Atmosphere Research Commission (SUPARCO)
- **Aeronautical Companies**
    - Civil Aviation Authority of Pakistan
    - Civil Aviation Training Institute
    - Pakistan International Airline (PIA)
    - Airblue
    - Air Indus
    - Shaheen Air

## 6. RESEARCH AND DEVELOPMENT

### 6.1 PhD Faculty

PhD faculty is considered to be the backbone of any educational institute; it not only adds to the University ranking but also works for the betterment of community by focusing and proposing solutions to the current problems of the community.

Mehran UET has a significant number of PhDs, apart from PhDs in the core engineering disciplines, the University has PhD faculty also in the subjects of Basic Sciences, Linguistics and Management Sciences.

At Mehran UET, students will learn from renowned researchers and industry leaders recognized globally for their outstanding achievements. They are passionate, brilliant, and dedicated to sharing their insights and discoveries.

### 6.2 Mehran University Research Journal of Engineering & Technology

#### (a). About the Journal

Mehran University Research Journal of Engineering and Technology is an international, multidisciplinary and open access scholarly journal accessible at <https://publications.muuet.edu.pk/index.php/muetrj/index>.

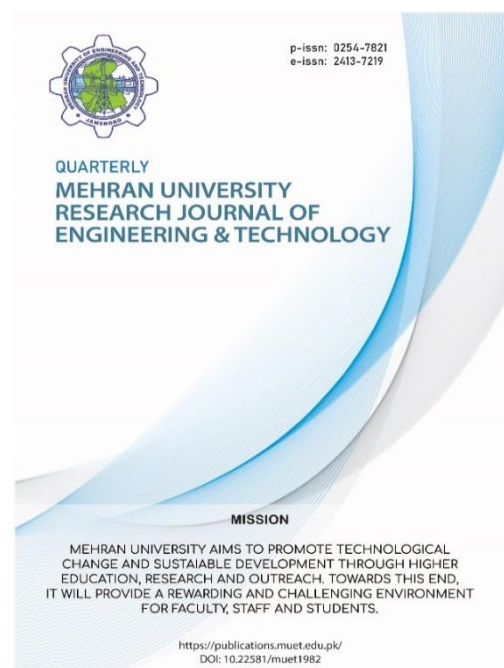
This journal publishes high quality original research articles describing the latest research and developments in all the fields of engineering and technology. Review and survey papers are also considered for publication in the priority areas mainly by invitation. The journal is recognized by Higher Education Commission Pakistan and is indexed in Clarivate Web of Science, Directory of Open Access Journals, EBSCO, Inspec, Portico, Gale, Ingenta and many other international agencies.

#### Aim and Scope

The journal aims to support academicians, researchers and practitioners with the latest trends and better practices through our published articles in the fields of engineering and technology and serves as a platform for addressing and discussing theoretical and practical knowledge of advancement in but not limited to the following engineering and technology domains: Civil, Agriculture, Food, Irrigation and Water Supply, Environmental, Mechanical, Chemical, Process, Energy, Electrical, Electronics, Computer Systems, Software, Information Technology, Mechatronics, Automotive, Aerospace and Aeronautical, Naval Architecture and Maritime, Telecommunications, Mining, Metallurgy, Petroleum and Gas, Materials, Polymer, Textile, Biotechnology, Biomedical, Industrial, Urban Engineering and Planning; and the applied sciences domain particularly Materials Sciences, Applied Natural Sciences. However, the domains of medical sciences, management sciences, social sciences and the art and design are not covered by this journal.

#### (b). About the Journal

**Repertus a peer reviewed Journal of Linguistics, Language Planning and Policy (e-ISSN 2791-1934)** is an initiative of Centre of English Language & Linguistics (CELL), Mehran University of Engineering & Technology (MUET). It welcomes submissions focusing on areas of linguistics, language planning and policy particularly in the context of South Asia and generally worldwide. It focuses on the recent developments on issues related to linguistics-theoretical and practical a wide range of subfields of linguistics. Repertus aims to add the diversity to the linguistic research in overall world scenario. It will also help the researchers who focus on other colonial countries.



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## Current Issue

**Repertus: Journal of Linguistics, Language Planning and Policy, May 2022, Vol 1, Issue 1**

**Published:** 2022-05-25

## CALL FOR PAPERS 2022

**REPERTUS: Journal of Linguistics, Language Planning and Policy**

REPERTUS: A peer-reviewed journal of linguistics, language planning and policy welcomes submissions on aspects related to linguistics and language planning and policy, particularly in the context of South Asia and the world.

**The themes covered in this journal are but not limited to:**

Applied Linguistics	Stylistics and Discourse Analysis	Language and Identity
Corpus Linguistics	Lexicology and Lexicography	Language and Media
Sociolinguistics	Second Language Acquisition	Language Curriculum
Language Policy and Planning	Bilingualism and Multilingualism	Language Endangerment
Phonetics and Phonology	Language, Power and Ideology	English for Specific Purposes
Cognitive Linguistics	Language and Gender	Language Testing & Assessment

### IMPORTANT DATES

**JUNE 2022**  
SUBMISSION OPENS  
**AUGUST 2022**  
SUBMISSION CLOSES  
**NOVEMBER 2022**  
ISSUE PUBLICATION

**NO**  
SUBMISSION FEE  
PUBLICATION FEE

**Publication Frequency: Annual**  
**Online Publication: ISSN 2791-1934**  
Archived issues can be accessed at  
<https://rjlp.muet.edu.pk/index.php/repertus/issue/view/2>

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Centre of English Language & Linguistics, MUET, Jamshoro

## 6.3 Conferences, workshops and symposia

International research conferences are aimed to bring together a wide spectrum of international experts to facilitate a creative environment for the promotion of collaboration and knowledge transfer. In particular, a research conference facilitates a dialogue between major industry players, entrepreneurs and academia to help create a roadmap for the development of tangible research environment in the country.

Mehran UET is making history amongst the engineering universities of Pakistan by organizing several international conferences in a single calendar year in diversified fields of engineering. In 2018-19 Mehran UET, hosted many international conferences including 1<sup>st</sup> International Conference on English Language and Linguistics (ICELL'19), 1<sup>st</sup> International Conference on Computational Sciences and Technologies with the slogan "Engineering, Science and Technology at the Intersection of Solving Problems to Humanity" (INCCSST'19), 1<sup>st</sup> International Conference on Sustainable Mineral Resources Development and Utilization (SMRDU'19), 1<sup>st</sup> International Conference on Computational Sciences and Technologies, 5<sup>th</sup> International Conference on Energy, Environment and Sustainable Development 2018 (EESD'18). In 2017-18 Mehran UET hosted several international conferences including 5<sup>th</sup> International Multi Topic Conference (IMTIC'18), 2<sup>nd</sup> International Conference on Chemical Engineering, 1<sup>st</sup> International Conference on Sustainable Development in Civil Engineering (ICSDC'17). In 2015-2016, Mehran UET hosted five international conferences including, 4<sup>th</sup> International Conference on Energy, Environment and Sustainable Development, 1<sup>st</sup> International Conference on Science, Technology, Innovation Policy and Management, Global Conference on Wireless and Optical Communications, held in Spain, 1<sup>st</sup> International Conference on Industrial Engineering and Management, and Management Accountant Conference on Economy Challenges and Opportunity.

Taking the lead in engineering sector of Pakistan, Mehran UET arranged an international conference at Malaga, Spain. Global Conference on Wireless & Optical Communications GCWOC '16, with the collaboration of University of Malaga.

Beside conferences a number of workshops and symposia of national and international repute were called upon at Mehran UET including, 1<sup>st</sup> International Training Workshop: Industrial Clusters in Sindh Fostering Research & Development, Comprehensive Training on Garment Engineering, Workshop "Institutional Repository Management (DSpace) IRM-2018", 33<sup>rd</sup> All Pakistan IEEEEP Students Seminar, Mehran University Education Expo 2017, International Seminar and Workshop on Design of Tall Buildings: Trends and Advancements for Structural Performance.

The above organized technical meetings are a tangible proof of the fact that Mehran UET is well aware of the current demands and issues of our society and the University is constantly contributing its share to work for the betterment of the community. This also helps to aware our students of the current market trends and better guide them to be parallel with those trends.

#### 6.4 Office of Research Innovation and Commercialization (ORIC)

Office of Research Innovation and Commercialization (ORIC) is established in MUET to develop linkage with emerging and existing business firms across Pakistan for technological innovation and commercialization of research. It serves an umbrella to coordinate with researchers, on campus incubators and science and Technology Park. It also serves as channel to local, regional and federal partners to ensure research outcomes contributing in the growth of country's economy. ORIC developed its mechanism for research commercialization and established business/technology incubator to promote innovation and entrepreneurship culture.

##### 6.4.1 Role of ORIC

ORIC performs its functioning in three significant capacities.

- Research Operations & Development
- University Industry Linkages and Technology Transfer
- Research Commercialization/Entrepreneurship

ORIC activities revolve around the following research cycle to ensure research impact on economy and society:

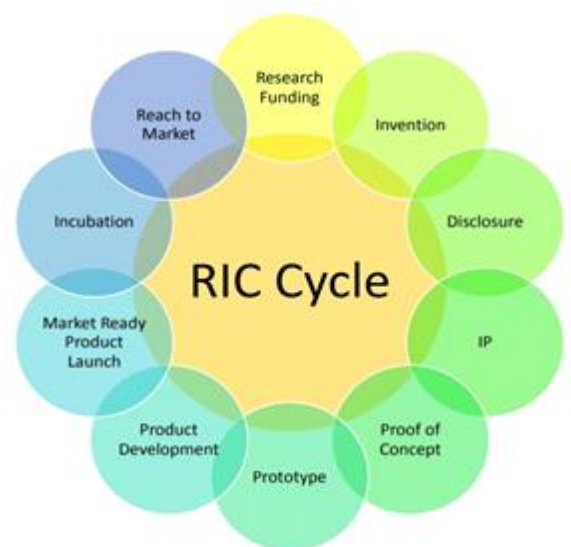
The ORIC provides opportunities for the students of the University in getting essential tools to sharpen their skills, such as:

- Trainings exposure and grooming during summer and winter holidays.
- Continuing Professional Development (CPD) courses in collaboration with (PEC)
- Seminars, conferences and workshops
- Chinese Language Courses by native Chinese faculty
- Internships and job trainings
- Industrial visits

This section also arranges job and trade fair to allow students for interaction with industry partners and recruitment drive for fresh graduates of the Mehran UET on the basis of their merit. ORIC facilitates entire University, its administrative and academic staff, and students in:

- Capacity building
- Career advancement
- Professional development by providing state-of-the-art trainings as well as certifications.
- International student exchange programs and international summer camps in different countries.

The infrastructure of ORIC is equipped with all modern facilities, having advanced computer labs, conference room, class room, library and auditorium with audio visual systems. ORIC never believes in boundaries, but it excels with the innovation, encourage faculty and students to think out of box and come up with new ideas. ORIC never believes in the boundaries, but it excels with the innovation, encourage our faculty and students to think out of box and come up with new ideas, we will materialize your dreams.



#### 6.4.2 National MoUs Signed with Industries and Academia:

Sr. No.	Name of Institute
1.	Benazir Bhutto Shaheed Youth Development Program, Irrigation & Power Department, Government of Sindh, Pakistan.
2.	Pakistan Atomic Energy Commission (PAEC), Islamabad.
3.	The United States Educational Foundation in Pakistan, Islamabad.
4.	Isra University, Hyderabad, Sindh, Pakistan.
5.	The Promotion of Education PEF Foundation, USA, Islamabad.
6.	Indus University, Karachi.
7.	Ms. Rafhan Maize Products limited, Kotri.
8.	Pakistan Space & Atmosphere Research Commission (SUPARCO), Karachi, Pakistan.
9.	Ms. Indus Resource Center, Karachi.
10.	Pakistan Steel Mills, Karachi.
11.	Pakistan Council of Research in Water Resources, Islamabad.
12.	Sindh Irrigation & Drainage Authority (SIDA), Hyderabad.
13.	Sindh Agriculture University Tandojam, Tandojam.
14.	Water and Power Development Authority, Lahore.
15.	Analytical Measuring Systems (Private) Limited, Karachi.
16.	Pakistan Institute of Management (PIM), Karachi.
17.	Institute of Cost & Management Accountants of Pakistan, Karachi.
18.	Pakistan Council for Science and Technology (PCST), Ministry of Science & Technology, Government of Sindh, Karachi.
19.	Eco Science Foundation (ECOSF) & Technology Times, Karachi.
20.	Irrigation Department, Government of Sindh “Capacity Building of Officers / Officials of Sindh Irrigation Department”.
21.	NORDTEC, Karachi.
22.	Sustainable Development Policy Institute, Islamabad.
23.	National Textile University, Faisalabad.
24.	Archorma, Textile Chemical Company, Karachi.
25.	Institute of Business Administration (IBA), Karachi.
26.	British Council Pakistan, Karachi.
27.	Sindh Engro Coal Mining Company (SECMC), Karachi.
28.	World Wide Funds for Nature Pakistan, Karachi
29.	Confucius Class Rooms at Cadet College Petaro, Jamshoro.

### 6.4.3 International MoUs Signed with Industries and Academia:

Sr. No.	Name of Institute
1.	University of Leeds, UK.
2.	Middle East Technical University, Ankara, Turkey.
3.	Aalborg University Esbjerg, Denmark.
4.	University of Bedfordshire, UK.
5.	University of Malaya, Malaysia.
6.	University of Limerick, Limerick, Ireland.
7.	Hacettepe University, Turkey.
8.	University Technology Malaysia, Malaysia.
9.	Faculty of Textile, Science and Tech., Shinshu University, Japan.
10.	China University of Mining and Technology, Xuxhou, China.
11.	University of Utah, USA.
12.	Clothing and Designing Faculty, Minjiang University, China.
13.	Perdana School of Science, Technology & Innovation Policy, University Technology Malaysia, Kuala Lumpur, Malaysia.
14.	Korea Institute of Science & Technology Evaluation & Planning (KISTEP), Republic of Korea.
15.	Charles Sturt University, Australia.
16.	AMC-Metropolitan College-Athens-Greece.
17.	University of Nottingham, UK. (This revised agreement applies to the University of Nottingham's campuses in the United Kingdom, China & Malaysia).
18.	Montan Universitaet, Leoben, Republic of Austria.

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## 7. CAMPUS LIFE

### 7.1 Student Teacher Centre (STC)

This University has established Student Teacher Centre to provide communal facilities to students and staff. STC has been constructed over an area of 20,000 sft. as per Vision & Perspective Plan of the University. The Centre hosts the following:

#### 7.1.1 Indoor Sports & Communal Facilities:

- Information Service
- Students' Advisory Office
- Hostel Provost Office
- Students' Welfare Office
- Dispensary
- Tuck Shop
- Bank Counter
- Cafeteria (for Boys & Girls)
- Debating and Dramatic Society Office
- Indoor Games
- Alumni Office

### 7.2 MUET Library & Online Information Center, Jamshoro

The Mehran UET, Library & Online Information Center contains more than **180700** books related to Engineering Science and Technology. The library has online e-resources under Higher Education Commission Digital Library Program. The access of **12 e-databases** for electronics journals, Research thesis online e-books available under ebrary program which are accessed within the University campus and outside the campus in full text format.

There are more than **32000** text books in the Book Bank which are loaned to students for one term on nominal rent. The collection of books is updated continuously and new books are acquired on the recommendations of experienced faculty members, which makes collection most suited and beneficial to graduate and under-graduate students. In addition, latest reference and other books are also acquired every year to keep the users of the library abreast with the latest information on Science & Technology specially engineering and its allied subjects.

In addition to providing the readers with in-house collection, services are also provided for inter-library loan and photocopying of literature including technical information centers within and outside Pakistan.

The Mehran UET Library & Online Information Center also offers following services:

- **The E-Resources for Online Classes have been established to support the students during COVID-19 and are available on the following link:**  
[library.muuet.edu.pk/ebooks.php](http://library.muuet.edu.pk/ebooks.php)
- MUET Library & Online Information Center offer service of e-resources to under graduate, post graduate students and faculty members for their research project, assignments online classes through Library Web page during the **COVID-19**.
- The MUET Library provides the facility of Multimedia & Research Development Center, which includes softcopy of books, CD/DVD Writing, Scanning and printing to students, faculty members and researchers. Multimedia & Research Center also provide space for researcher with I-7 Computer (Wireless Headphones; Hi Fi Audio system) connected with Wi-Fi Networks. Full access of HEC Digital Library provided possible assist to create bibliography of work electronically (Endnote, Mendeley, Zotero). In Multimedia & Research development Center research articles and e-books are provided to the faculty members and students on their demands.
- The MUET library offer the trainings program regarding awareness of HEC digital library resources ebrary, science direct and IEEE to the students of all faculties of the University.



- There are also blogs [muetfacultycoordination.blogspot.com](http://muetfacultycoordination.blogspot.com) to give the access of books recommended in teaching plan. Another blog [muetloic.blogspot.com](http://muetloic.blogspot.com) to give the awareness trainings regarding HEC Digital Library, [muetloiceresources.blogspot.com/](http://muetloiceresources.blogspot.com/) access of E-books, Journals, Tutorials and Thesis's Guidance, video lectures, dictionaries and encyclopedias etc.
- The Catalog of books is computerized and accessible to the library of Congress gateway [loc.gov/z39.50](http://loc.gov/z39.50) serving one point access interface for books catalog, full text electronic journals and e-books on web.
- Koha Catalogue also available with check in check out system for library users on [opac.muet.edu.pk](http://opac.muet.edu.pk)
- The MUET Library & Online Information Center also offered Wi-Fi service in whole Library inside/outside Building.
- The library is opened from 8:00 am to 12:00 Mid-night whole the year heavily used by the undergraduate and postgraduate students, faculty members and researchers.
- Professional staff available at service points to meet the needs of the readers. Besides this under library system program the seminar libraries have been established in various institutes/departments.

### 7.3 Student Financial Aid Office (SFAO)

The primary objective is to provide assistance through Scholarships, Financial Assistance /Aid, Zakat and Educational Loans (Qarz-e-Hasna) programs, to the students who are unable to pursue their higher education due to financial barriers. The objectives of SFAO are as under:

- To provide financial relief to the meritorious and needy students
- To provide quality advising services by addressing individual student needs, responding to student inquiries in a timely manner
- To use effective procedures to ensure that the funds are provided to students who demonstrate the greatest financial need
- To comply with all prescribed rules, regulations, and policies of financial aid and scholarship programs as set by the Donor Agencies and the University



The ISAC Interviews conducted for Ehsaas Undergraduate Scholarship Project Phase-III on March 17-18, 2022

### 7.3.1 List of Donors / Scholarships Opportunities:

Sr. No.	NAME OF SCHOLARSHIP	DONOR
1	Internal Merit Scholarship	Mehran UET, Jamshoro
2	Financial Assistance	Mehran UET, Jamshoro
3	Student Advancement fund Endowment Scholarship	Mehran UET, Jamshoro
4	USAID Merit & Need Based Scholarship	USAID Pakistan with the collaboration of HEC, Islamabad
5	HEC Need Based Scholarship Program	Higher Education Commission, Islamabad.
6	OGDCL Need Based Scholarship	OGDCL with the collaboration with HEC, Islamabad.
7	SSGC Scholarship	Sui Sothern Gas Company limited
8	BHP (Pakistan) Need Cum Merit Based Scholarship	BHP Billiton (Pakistan)
9	National ICT Scholarship	PM National ICT R&D Fund, Islamabad.
1	NBP Loan	National Bank of Pakistan.
1	Sindhi Association of North America Dr. Feroz A. Memorial Educational (FAME) Scholarships.	Sindhi Association of North America.
1	PEC Scholarship	Pakistan Engineering Congress, Lahore.
1	PEC Merit Scholarship	Pakistan Engineering Council, Islamabad.
1	Balochistan Scholarship	Directorate of Collages Higher and Technical Education Balochistan, Quetta.
1	PIP Scholarship	Petroleum Institute of Pakistan (PIP), Karachi.
1	IEP-SAC Scholarship	Institution of Engineering Pakistan, Saudi Arabian Center.
1	MUTA - Need Cum Merit Scholarship	Mehran University Teachers Association (MUTA), Jamshoro.
1	Merit Scholarship (formerly called MORA)	All District Zakat & Ushar Committees of Sindh
1	Endowment Fund Scholarship	Education & Literacy Department, Govt. of Sindh
2	PEF Scholarship	Professional Educational Foundation
2	Provision of Higher Education Opportunities for Student of Baluchistan and Fata	Higher Education Commission, Islamabad.
2	Minority Scholarship	Ministry of Religious Affairs, Islamabad.
2	PEEF Scholarship	Punjab Education Endowment Fund (PEEF), Lahore.
2	Scholarship for Foreigner students	Various Embassies
2	Zila Nazim Khairpur Scholarship	Office of Zila Nazim District Govt., Khairpur
2	Scheduled Caste (Tharparkar)	Office of Deputy Commissioner, Tharparkar
2	SEAFSA Scholarship	Mr. Tufail A. Memon and Friends from USA
2	Sain G.M. Sayed Need cum Merit Based Scholarship	Shah Hyder Educational Society SANN (SHESS), SANN UC, District Jamshoro
2	DIYA Scholarship	Kaneez Fatima Welfare Trust, Rawalpindi
3	FFC- Scholarship	Fauji Fertilizer Company Limited
3	Syeda Mubarik Begum Scholarship	Babar Ali Foundation, Pakistan
3	Quaid-E-Azam Aligarh Scholarship	Quaid-E-Azam Aligarh Trust
3	Mentoring a Talent	TEXPO, IT consultant Company
3	FF_ Scholarship	Fauji Foundation, Rawalpindi

Sr. No.	NAME OF SCHOLARSHIP	DONOR
3	(Late) Abdul Qayoom Uqaili Need cum Merit Based Scholarship	Prof. Dr. M. Aslam Uqaili, Ex-Vice-Chancellor, MUET, Jamshoro.
3	(Late) Taj Mohammad Sahrai Need cum Merit Based Scholarship	Prof. Dr. Mujeeb-u-ddin Sahrai, Professor, Mechanical Engineering MUET, Jamshoro.
3	Sardar Begum Sehrai Need cum Merit Based Scholarship	
3	(Late) Master Kishan Chand Chowdhry Need cum Merit Based Scholarship	Prof. Dr. B.S. Chowdhry, Dean FEECE, MUET, Jamshoro.
3	(Late) Mr. & Mrs. Jhando Khan Lashari Need cum Merit Based Scholarship	Prof. Dr. Bakhshal Khan Lashari, Director, Water Resources Engineering & Management, MUET, Jamshoro
4	Agha Habibullah Khan, Need Cum Merit Based Scholarship	Prof. Dr. Agha Faisal Habib, Civil Engg.
4	Mr. & Mrs. Pyaro Khan Shaikh, Need Cum Merit Based Scholarship	Dr. Ghulam Yaseen Shaikh, Industrial Engineering Department
4	Dr. Asma Junejo, Need Cum Merit Based Scholarship for a Female Student	Dr. Asma Junejo, Senior Gynecologist, Hyd.
4	Dr. Khadija Qureshi, Need Cum Merit Based Scholarship	Prof. Dr. Khadija Qureshi, Chemical Engg.
4	Mr. Jawed Akhtar Arbab. Scholarship	(Late) Muhammad Khan Arbab, Need Cum Merit Based Scholarship
4	United Memon Jamat Scholarship	United Memon Jamat of Pakistan
4	Mrs. Anwar Muhammad Memon.	(Late) Mr. Anwar Mohammad Memon, Need Cum Merit Based Scholarship
4	Mrs. Noshaba Qabool Muhammad, Need Cum Merit Base Scholarship and Mrs. Sonia Abdul Manan Need Cum Merit Based Scholarship	Mr. Mian Abdul Manan, Team Leader (I & C), Karachi.
4	Scholarship for Foreigner students	Various Embassies in Pakistan
4	Other Foundations / Agencies	General Scholarships
5	Indian Occupied Kashmiri Scholarship / J&K State Financial Assistance	Government of Pakistan Ministry of Inter Provincial Coordination (IPC Division)
5	Mr. Ilyas Ishqie to a needy female student, Need Cum Merit Based Scholarship.	Madam Rosy Ilyas, Retired Professor ELDC, MUET.
5	(Late) Mr. Zahid Suleman, Need Cum Merit Based Scholarship.	Mr. & Mrs. Qazi Suleman,
5	Mr. Muhammad Hassan Laghari, Need Cum Merit Based Scholarship. MUET.	Mr. Muhammad Hassan Laghari, Ex-Chief Security Officer
5	Engr. Ghulam Ali Mirza Need Cum Merit Based Scholarship.	Mr. Ghulam Ali Mirza, from UK.
5	93-Batch Need Cum Merit Based Scholarship	Ex-Students of 93 Batch
5	Mir Hassan Rind Need Cum Merit Based Scholarship	Mir Hassan Rind Former Member of National Highway Authorities (NHA).
5	(Late) Mrs. Mahrunish Shaikh Need Cum Merit Based Scholarship	Engr. Arz Mohammad Shaikh, Hyderabad.
5	Dr. Mir Saad Hussain Sacharvi, Need Cum Merit Based Scholarship	Dr. Mir Saad Hussain Sacharvi, Hyderabad.
5	Mr. Mir Mahammad Talpur, Need Cum Merit Based Scholarship.	Mr. Mir Mahammad Talpur
6	Late Mr. Ghulam Hussain Brohi, Need Cum Merit Scholarship	Pro. Dr. Khan Muhammad Brohi Dean Faculty of Architecture & Civil Engg.
6	Sachal Engineering Works (Pvt) Ltd, Islamabad Need Cum Merit Scholarship	Sachal Engineering Works (Pvt.) Ltd., Islamabad

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Exchange: +92 22 2772250-72 / Ext. 7715

## 7.4 Students' Advisory Committee

### Introduction of the Directorate / Center / Section / Office

Mehran University Students' Advisory Committee was formed to bridge the gap between administration, teaching community, and students. The Committee helps students to organize academic and social activities and to resolve their academic and legal grievances.

### Role of the Students' Affairs Office

The committee leads, directs, and administers overall functions of student societies, student counseling, hostel residence allocation, as well as matters related to disciplinary issues. The important role of Student Affairs Office is to enhance the quality of student experience both in and outside of the classroom.

The Advisory Committee also provides proactive support and capacity building services to promote co-curricular activities to enhance interpersonal skills of the students.

### Achievements of the Directorate / Center / Section / Office

The Student Affairs Office has maintained a friendly environment to guide the students. It manages their needs from the time they step in the University until their graduation. We provide proactive support and capacity building services to promote healthy co-curricular activities to enhance interpersonal skills of the students. Using the platform of the Students' Affairs Office, students have built strong relationships with their peers, faculty, administration, and other stakeholders of the University.

The Mehran University Students' Advisory Committee is composed of the following members:

#### **Prof. Dr. Tanweer Hussain**

Professor, Department of Mechanical Engineering,  
Advisor Students' Affairs

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**Engr. Junaid Ahmed Baloch**

Assistant Professor, Department of Software Engineering  
Deputy Advisor Students' Affairs  
Landline:0222772251-6917  
Email: [Junaid.baloch@faculty.muuet.edu.pk](mailto:Junaid.baloch@faculty.muuet.edu.pk)

**7.5 Quality Enhancement Cell (QEC)**

QEC was first established in 2001 under the name of ISO 9000 Cell, as Mehran UET, Jamshoro decided to enhance quality of education by implementing ISO 9000 Quality Management System (QMS). The University has ultimately achieved ISO 9000 certification in 2003 and the course continuous to include additional areas for quality improvement and the directorate was renamed as Quality Enhancement Cell (QEC) in 2007.

Today QEC coordinates between Higher Education Commission (HEC) Pakistan and MUET Jamshoro primarily and also includes quality personnel of different institutes of Pakistan to promote quality at MUET Jamshoro. The basic activities carried out to cover quality parameters of HEC and ISO 9000 include conduct of Self-Assessment (SA), Institutional Performance Evaluation (IPE), Postgraduate Program Review (PGPR), Internal Quality Audit (IQA), Management Review (MR), Anti-plagiarism, seminars, workshops, conferences and Surveillance.

**7.5.1 Key achievements of QEC:**

- Implementation of ISO 9001:2015 quality management system requirements and certification for three years from Lloyd's Register Quality Assurance (LRQA) UK
- Successfully implemented HEC quality assurance criteria and secured 93.53% marks in HEC QECs ranking for the year 2017-18
- Mehran UET awarded with "Excellent Performance" for the year 2018-19

**7.5.2 Future Objectives:**

To strive for accreditation of engineering programs through Accreditation Board of Engineering and Technology (ABET)

**Contact us:**

Quality Enhancement Cell (QEC)  
Mehran UET, Jamshoro.  
Phone: +92-22-2109013 / Ext.: 7712  
E-mail: [qec@admin.muuet.edu.pk](mailto:qec@admin.muuet.edu.pk)  
Website Link: <http://www.muuet.edu.pk/qec>

## **7.6 Information and Communication Processing Centre (ICPC)**

ICPC is considered as backbone of the University. ICPC contains different types of networks, i.e., voice & data networks, which facilitates inter departmental communication related to internet & voice communication. It also connects MUET Intranet to the outside world through a bandwidth of 800 Mbps on fiber link.

The ICPC is having a powerful and scalable switching fabric that carries gigabit traffic on fiber optics backbone and interconnects all buildings of the University including administration building, departments and hostels. It is designed on the VLAN infrastructure. Apart from data service, ICPC is also providing voice services through the modern Alcatel-Lucent OmniPCX 4400, EPABX System since 2003. ICPC provides following services as well as facilities in the University:

- Data and Voice Services
- Wireless Connectivity (Blanket coverage)
- Trainings & Internships for Employees & students
- Smart ID Cards for Employees & students
- Security Surveillance System
- Email Service
- SMS Alert Service
- Web Services

### **7.6.1 Surveillance System**

The University has a state-of-the-art surveillance system (a closed-circuit television system) to with a central control room to maintain close observation to the students, visitors and employees of the University within the University premises around the clock to reduce the level of all risks associated with higher education institutions.

#### **Engr. Sajidullah Memon**

Additional Director

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#### **Engr. Saleem Ahmed Memon**

Director

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## **7.7 Medical Assistance**

A double-bed clinic located at Student-Teacher Center provides medical facilities from 4:00 to 6:00 in the evening for residents of boys' hostels and a part-time dispensary has been established in one of the female hostels for the residents, which is manned by a qualified doctor and a dispenser. Adequate quantities of essential medicines are also available in the dispensary for the minor ailments. Major sickness problems are referred to nearby hospital. Besides that, day and night emergencies are attended by the ambulance service and duty vehicle which are available for 24/7.

For further information, please contact:

1. Prof. Ghulam Abbas Mahar,  
Provost Hostels,  
Tel. No. 022 2109137  
Ext. No. 3005  
Email: [provost.hostels@admin.mueta.edu.pk](mailto:provost.hostels@admin.mueta.edu.pk)

2. Khalid Hussain Bhatti,  
Assistant Registrar (Hostels)  
Tel. No. 022 2109135  
Ext. No. 2031  
Email: [khalid.bhatti@admin.muett.edu.pk](mailto:khalid.bhatti@admin.muett.edu.pk)

### 7.8 Transport Facilities

The University has a fleet of buses to facilitate the students, faculty and staff running on various routes between the campus and Jamshoro, Hyderabad / Qasimabad / Latifabad / Kotri. Students have to pay nominal transport charges for the use of these facilities. In addition to that, the University has different type of equipment / vehicles, i.e., Mechanical Sweeper, Aerial Platform, Garbage Compactor etc. for cleaning campus to make the environment better. The University also plans to introduce solar shuttles for the students within the University premises.

### Mr. Fawad Ahmed Lashani

Incharge Transport Section / Director Services  
Phone: +92 222109073 and 22 2771153 / Ext.: 6800  
<http://www.muett.edu.pk/transport-section>

### 7.9 Residential Accommodation

The MUET hostels have rich legacy of academic excellence and responsible community life. It is an affordable, homely and safe accommodation for almost 1800 male and female Pakistani, overseas Pakistani and foreign students. Almost all eight, including three female students', hostels are spacious and airy two-storied buildings, located near to the main academic buildings, with well-furnished rooms to accommodate two to three students with internet facility. Every student is allotted a bed, a cupboard, a study table and a chair. The premises of male and female hostels are separate and the messing system and cleanliness of hostels supervised by male and female wardens respectively.

**The University is not bound to provide hostel accommodation to every student, even if he / she is entitled.** However, accommodation is provided to the male and female students seeking admission only in undergraduate studies at various departments / institutes of the University subject to availability and according to the merit. The interested students can apply through a prescribed Admission Form available with the Office of the Provost Hostels, at the Student Teacher Center of the University. The seats in the hostels are allotted by allocating the district-wise quota proportional to seats allocated for admission in University. Further the district-wise seats are allotted to the students on first come first served basis, **excluding the districts where the bus service is provided from by the University (like Jamshoro, Hyderabad, Matiari, Tando Allahyaar, Tando Muhammad Khan and Mirpurkhas).** The cases of the interested applicants belonging to the above-mentioned districts and far-flung areas thereof may be considered, in case of availability of seats after regular allotment is done. The seats allotment process is fully transparent. The University administration reserves the right to reject any application for allotment or cancel the allotment of any student at any stage without assigning any reason.

Purified drinking water and hot / cold water is available around the clock. Separate canteens / messes with common dining halls are available in each hostel with around to 30 to 40 students sitting capacity and offer meals, tea, juice and soft drink at modest prices. The menu and quality of the food are regulated by the students mess committee. The common halls are well equipped with recreational facilities like large wall-mounted televisions / LCDs, table tennis, badminton and newspapers and magazines. Most of the hostels have outdoors basketball courts and inter-hostels sports events and debate contests are organized regularly. A state-of the-art Gymnasium is located near the hostel buildings to provide health care and fitness facilities from morning till 9:00 PM. An ATM electronic banking service is nearby available around the clock. All the hostels' residents have been provided with transport facility from morning till 9:00 PM. All hostels offer lush green lawn for the students to sit and relax, beautiful natural surroundings, mango, guava and banana orchard, green environment conducive for studies, calm & quite atmosphere, pollution free and safe & secured environment with

24 hours security surveillance. Security guards have been deployed on main entrances of male and female students' hostels round the clock to ensure the strict security. The CC Tv cameras are installed in all the hostels to monitor the activities of staff, visitors and residents of hostels by Provost Hostels.

University hostels are built upon the principles of professionalism, caring and mutual respect to the students. During the stay in the hostels, they maintain high standards of professional ethical values and for development of personal relationship which provides the best grooming facilities to fulfill our mission. The residents of MUET hostels have always demonstrated the ethos of dedication, sincerity and care for others. The hostel inculcates the characteristics like co-operation and respect for different cultures in the residents as they come from diverse cultures. As a part of extended family of the University fraternity, MUET hostels add a dimension of vigor and commitment to the academic and extracurricular ambience of the institution. While providing an opportunity of campus living, MUET hostels look forward residents to shoulder and maintain the best traditions of the University as a whole.

All the students are required to abide by the rules and regulations governing residence and are encouraged to develop community life conducive to healthy growth of the social aspects of their personalities.

### **7.10 Auditorium**

The Auditorium with the capacity for approximately 500 people is the most stunning meeting room with seating for up to 500 and state-of-the-art audio-visual equipment. It promises to make events unforgettable. The acoustics in the auditorium are ideal for musical recitals as well as lectures.

### **7.8 Sports Facilities**

The Directorate of Sports has been arranging wide range of indoor as well as outdoor sports activities and provides health and fitness facilities to the University students on daily basis. The University has keen interest in arranging facilities of highly specialized trainings, coaching camps along with indoor and outdoor sport events for students residing in and out of campus. Inter batch, inter departmental and inter hostel sport events for Boys & Girls are regular feature of the University.

We have a state-of-the-art Sports Complex in the campus, having a modern Gymnasium and fitness center that is, equipped with latest fitness tools to provide our students best possible health and sport activities in a better environment.

The University also hosts/organizes and participates in a number of Inter University Sports events organized under HEC annually. The University students have been winning these tournaments and awarded with Gold, Silver and Bronze Medals respectively. Every incoming batch is encouraged to participate and represent the University team in Inter Department, Inter Hostel, Inter Batch and Inter University events particularly in Athletics, Cricket, Football, Volleyball, Handball, Basketball, Squash, Table Tennis, Tennis, Badminton, Hockey, Tug of War, Chess, Judo, Wushu, Body Building, Weight lifting Swimming, Gymnastics and Boxing etc.,

Annual events like Sports week/Gala are among the most popular events organized at the University in which a huge number of students participate in indoor as well as outdoor sports competitions.

### **Abdul Ghaffar Chandio**

Director

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<http://www.mueta.edu.pk/directorates/directorates-sports>



## **7.12 Cafeteria**

There are many cafeterias / canteens across the campus which provide provides fresh quality edibles / meals prepared according to hygienic rules at affordable prices. The cafeterias serve almost 7,000 students. A committee is deputed to check and examine quantity, quality and rates of the food at the University. It also monitors the hygienic conditions of the cafeteria to ensure quality and hygiene of the food. The Committee also looks after the menu selection and quality of service. Taste buds come alive with our vast dining selections. Fast food, lunch, snack bars, baked goods, tea and coffee can be found at our campus.

Cafeteria is a place where students enjoy their favorite meals and have social interaction and they discuss academic and social issues with fellow students. This place is especially very much crowded during lunch or recess time.

## 8. RULES AND PROCEDURES FOR ADMISSION

### 8.1 Admission:

- (i) Admissions to the First Year for all the degree courses are made according to the policies and rules, framed by the authorities of the University from time to time. The rules mentioned in this prospectus are subject to revision by the competent authority as and when deemed necessary and without any notice. The number of seats has been fixed as shown in **Table-8.6.1**. There are other categories of candidates who are also eligible for admission, which are described in detail in the subsequent clauses.
- (ii) The candidates who have been allowed admission previously with any batch by this University shall not be considered for fresh admission. Their admission forms, if received by the University shall be rejected without any notice and their admission will be cancelled at any stage later on.
- (iii) The candidates who apply for admission on the basis of fake certificates/documents (detected before or after their admission) shall be prosecuted under criminal law and their admission shall be cancelled. Additionally, they may also be debarred for a period of three years for future admission and all payments made to the University shall be forfeited in favor of the University.

### 8.2 Eligibility for Admission

- (i) a). The candidates who have passed their Higher Secondary School Certificate (HSC Part-II) in Annual Examination of 2022 or earlier up to 2019 under **Pre-Engineering Group or equivalent** with Physics, Chemistry and Mathematics and have secured at least 60% marks (**Grace marks given by the board for improvement of grade shall not be counted**) from any recognized Board of Intermediate and Secondary Education in Pakistan or from foreign countries, are eligible to apply for admission.
- b). The candidates who have passed their Diploma of Associate Engineer (DAE)\* before last date of submission of admission form or earlier up to Annual Examination 2019 and have secured at least 60% marks (**Grace marks given by the board for improvement of grade shall not be counted**) from any recognized Board of Technical Education in Pakistan in any approved discipline are eligible to apply for admission only in the relevant disciplines as under:
  - Civil, Construction Technology, Civil with any Specialization, Architecture, Environmental, and Land & Mine Surveying for **Civil Engineering Technology**.
  - Electrical, Electronics, Automation, Avionics, Computer / Computer & Information Technology, Information, Instrumentation, Instrumentation & Process Control, Mechatronics, Precision Mechanical & Instrument, RADAR, RADIO, and Telecommunication for **Electrical Engineering Technology**.
  - Mechanical, Dies & Mould, Mechanical (Automobile & Diesel), Mechanical (Construction Machinery), Mechanical (Foundry & Pattern Making), Mechanical (Metallurgy & Welding), Mechanical with any Specialization, Mechatronics, Precision Mechanical & Instruments, Refrigeration & Air Conditioning, Vacuum, Aerospace, Auto & Diesel, Automation, and Bio-Medical for **Mechanical Engineering Technology**.

The candidates who have passed their DAE before Annual Examination of 2019 shall not be eligible for admission.

- c.) In addition, the candidates who have passed their HSC Part-II in Annual Examination of 2022 or earlier up to 2019 under **General Science Group or equivalent** and have secured at least 60% marks (**Grace marks given by the board for improvement of grade shall not be**

**counted**) from any recognized Board of Intermediate and Secondary Education in Pakistan or from foreign countries are also eligible to apply for admission only in Cyber Security provided they shall not claim their admission in any other discipline.

\* **Diploma of Associate Engineer (DAE)** is a three years' post-secondary program of instruction in various **engineering** disciplines. It includes regular **studies** with classroom lectures, workshop assignments, laboratory experiments, industrial projects and industrial tours.

- (iii) The candidates who have passed their HSC Part-II in Annual Examination before 2019 under any of the above-mentioned groups or equivalent shall not be eligible to apply for admission.
- (iv) Those students, who were admitted to any other institutes/universities before applying for admission in Mehran UET and were rusticated, debarred or their admissions were cancelled, shall not be considered for admission in the University. Additionally, if the students withhold information regarding such a disciplinary action and they were granted admission; their admission will be cancelled immediately after ascertaining such facts. Those candidates who have been convicted involving of moral turpitude shall also be refused admission in the University.

### 8.3 Admission Form

Call for admissions is advertised in the prominent newspapers of national and regional repute as well as on the University website [muet.edu.pk](http://muet.edu.pk). The candidates who intend to apply for admission must follow the guidelines mentioned on the Directorate of Admissions website [admissions.muet.edu.pk](http://admissions.muet.edu.pk). A valid email address is mandatory to complete the registration process. The candidates are required to deposit the admission processing fee in any branch of Habib Bank Ltd. The candidate has to upload the scanned copies of all the required documents and paid copy of bank challan as indicated. The Mehran University authorities after receipt of application and admission processing fee will email admit slips to candidates for pre-admission test. The candidate has to print the admit slip and bring the same on the day of pre-admission test along with original CNIC/B-Form. The appearance / passing in the pre-admission test does not mean the candidate is eligible for admission. The eligibility of candidate for admission is decided by the admission office of the University after scrutinizing the documents provided by the candidates. The eligibility criteria for admission are given here above in **Clause 8.2**. Since the admission form is a legal document, any wrong information provided therein or tampering it in any other way is illegal and may result in rejection of the form out rightly

### 8.4 Pre-Admission Test

In accordance with the policies adopted by the Federal as well as Provincial Governments, all the eligible candidates applying under all categories except nominees are required to appear in the Pre-Admission Test organized by the University. Candidates having secured less than 40% screen the Pre-Admission Test shall not be eligible for the admission in this University.

The final merit list of the candidates for each district/category is prepared by calculating their overall merit, based on the marks obtained in each of the following examinations, multiplying them with the respective weightage and adding the result to calculate the "Composite Percentage Number" (CPN) as described below:

Sr. No.	Percentage of Marks in	Multiplying Weightage
A.	Secondary School Certificate (Science Group) - Matriculation: Higher Secondary School Certificate - Intermediate:	<b>0.10</b>
B.	(Pre-Engineering Group / General Science Group / DAE or equivalent with adjusted marks*).	<b>0.30</b>
C.	Pre-admission Test Score:	<b>0.60</b>

For example, if a candidate has secured 70% marks in SSC, 60% marks in HSC and 50% marks in Pre-Admission Test; his/her CPN\*\* would be calculated as under:

$$\underline{(70 \times 0.1)} + \underline{(60 \times 0.3)} + \underline{(50 \times 0.6)} = \underline{7+18+30} = \underline{55.0000}$$

\* Adjusted marks mean marks secured in HSC examination plus additional marks if any, as defined in **Clause 9.11**, or minus marks to be deducted as defined in **Clause 9.12**.

\*\* The CPN of the candidates on the merit list may be calculated with four digits after decimal point. The following steps may be taken, in case of tie of CPN even after exercising the above action:

- i. The candidate having higher pre-admission test marks will be higher in merit.
- ii. The candidate having higher HSC marks will be higher in merit.
- iii. The candidate having higher SSC marks will be higher in merit.
- iv. The candidate having higher HSC Math-II marks will be higher in merit.
- v. The candidate having higher HSC Math-I marks will be higher in merit.

## 8.5 Interviews

After the receipt of the result of Pre-Admission Test, a comprehensive merit list is prepared for each district/category and a number of candidates roughly equivalent to the reserved seats of concerned category is called for interview before the Admission Committee.

The candidates must be accompanied with his / her guardian declared in his/her admission form during interview. The interviews are held at Mehran UET, Jamshoro on the dates as announced in the newspapers and also on MUET website: [muet.edu.pk](http://muet.edu.pk).

The candidates will also be required to bring their original documents as mentioned below for verification:

- (i) Marks Certificate of SSC – (Matriculation).
- (ii) Marks Certificate of HSC Part-II (Pre-Engg. / General Science - in case of change of group from Pre-Medical to Pre-Engg., marks certificate of Pre-Medical Group) / DAE.
- (iii) Domicile Certificate of candidate.
- (iv) PRC on 'C' Form of candidate.
- (v) National Identity Card / B-form (as applicable).
- (vi) Medical Certificate on prescribed proforma\*.
- (vii) Undertaking Certificate on prescribed proforma\*.

\* Proformas can be downloaded from [admissions.muets.edu.pk](http://admissions.muets.edu.pk).

It is mandatory for the candidates to appear before the Admission Committee for interview. If any candidate fails to produce all or any of the above-mentioned documents, he / she shall not be allowed to appear in the interview and will be disqualified from the process of admission.

The admission in any of the disciplines shall be allowed on the day of interview; and if admitted, all the above original documents would be retained by the University for at least **one entire year**. The candidates are advised to keep a photocopy of all the documents with them. The candidates have to deposit the fees as mentioned in **Clause 8.10** at the time of interview.

## 8.6 Distribution of Seats

The distribution of seats for admissions is strictly made according to the rules framed for the purpose by the authorities of the University on population basis among all districts. However, the award of discipline shall be given on the interview day as per availability of seats of the district / category. Any saving seats of any district are allocated on open merit basis. The number of seats allocated to each district, discipline and category at MUET, Jamshoro is given in **Table-8.6.1**.

**Table-8.6.1: Distribution of Seats Discipline-wise for various Districts, Disciplines and Categories at Mehran UET, Jamshoro.**

<b>Cat.</b>	<b>Description</b>	<b>BSCET</b>	<b>BSEET</b>	<b>BSMET</b>	<b>BSCYS</b>	<b>Total</b>
A-1	<b>Sukkur</b>	1	1	1	1	<b>5</b>
	Ghotki	1	1	1	1	<b>5</b>
	Khairpur	1	1	1	1	<b>5</b>
	Shaheed Benazirabad	1	1	1	1	<b>5</b>
	Naushahro Feroze	1	1	1	1	<b>5</b>
A-2	<b>Larkana</b>	1	1	1	1	<b>5</b>
	Kambar Shahdadkot	1	1	1	1	<b>5</b>
	Shikarpur	1	1	1	1	<b>5</b>
	Jacobabad	1	1	1	1	<b>5</b>
	Kashmore	1	1	1	1	<b>5</b>
A-3	<b>Hyderabad</b>	6	6	6	6	<b>6</b>
	Matiari	2	2	2	2	<b>2</b>
	Tando Muhammad Khan	2	2	2	2	<b>2</b>
	Tando Allahyar	2	2	2	2	<b>2</b>
	Dadu	3	3	3	3	<b>15</b>
	Jamshoro	4	4	4	4	<b>20</b>
	Thatta	3	3	3	3	<b>15</b>
	Sujawal	2	2	2	2	<b>10</b>
	Badin	3	3	3	3	<b>15</b>
A-4	<b>Mirpurkhas</b>	3	3	3	3	<b>15</b>
	Umerkot	2	2	2	2	<b>10</b>
	Tharparkar	3	3	3	3	<b>15</b>
	Sanghar	3	3	3	3	<b>15</b>
A-5	<b>Karachi</b>	1	1	1	1	<b>5</b>
B	MUE *	1	1	1	1	<b>5</b>
	<b>Totals</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>200</b>

**BSCET** BS in Civil Engineering Technology.

**BSMET** BS in Mechanical Engineering Technology

**BSEET** BS in Electrical Engineering Technology.

**BSCYS** Bachelor of Science in Cyber Security.

\* The students of the University who have been selected on MUE Quota (under **Category-B** of the Prospectus) shall not be eligible to apply again in any program (BE) of the University under MUE Quota.

**Table-8.6.2: Description of Category-B Candidates Seeking Admission.**

Category	Description	Seats
<b>(B)</b>	<p>Real sons/daughters/brothers/sisters of Mehran University employees (serving or retired, deceased, on lien or working on deputation with other Institutions) shall be considered for admission to first year class against the reserved seats on the following criteria:</p> <ol style="list-style-type: none"> <li data-bbox="347 383 1343 488">i. First preference is given to real sons/daughters of employees who are confirmed in the University service and have at least three years continuous university service at their credit.</li> <li data-bbox="347 528 1343 633">ii. Second preference is given to real sons/daughters of employees who are not confirmed in the University service but have at least three years continuous university service at their credit.</li> <li data-bbox="347 674 1343 779">iii. Third preference is given to real brothers/sisters of employees who are confirmed in the University service and have at least three years continuous university service at their credit.</li> <li data-bbox="347 819 1343 925">iv. Fourth preference is given to real brothers/sisters of employees who are not confirmed in the University service and have at least three years continuous university service at their credit.</li> <li data-bbox="347 965 1343 1070">v. Fifth preference is given to real sons/daughters of employees who are confirmed in the University service and have less than three years continuous university service at their credit.</li> <li data-bbox="347 1111 1343 1216">vi. Sixth preference is given to real sons/daughters of employees who are not confirmed in the University service and have less than three years continuous university service at their credit.</li> <li data-bbox="347 1256 1343 1361">vii. Seventh preference is given to real brothers / sisters of employees who are confirmed in the University service and have less than three years continuous university service at their credit.</li> <li data-bbox="347 1402 1343 1507">viii. Eighth preference is given to real brothers / sisters of employees who are not confirmed in the University service and have less than three years continuous university service at their credit.</li> </ol> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li data-bbox="443 1563 1343 1709">▪ The merit with regard to the <b>Category-B</b> is determined as per policy of the University. A copy of the appointment order, confirmation order and Affidavit regarding relationship of the candidate with the employee be attached with the admission form.</li> <li data-bbox="443 1727 1343 1832">▪ The students of the University who had already availed MUE Quota (under <b>Category-B</b> of the Prospectus) shall not be eligible to apply again under the same quota in any program (BE)</li> </ul>	<b>4</b>
	<b>Total Seats of Category-B</b>	<b>4</b>

### **8.7. Award of Discipline**

The award of discipline/technology is made on the day of interview. The candidates have to opt discipline/technology from their own respective districts/categories. However, if any candidate has applied in more than one category, he/she has to select/decide on any one of them on the day of interview. On the contrary, if he/she is not interested in any of them, he/she has to withdraw from admission in writing and his/her name shall be deleted from the list(s). The candidates shall have to pay the admission fees on the same day and obtain roll number accordingly. The candidates who are selected but do not get the discipline of their choice they may give up to five (5) choices of their desired disciplines/technologies. They are considered on merit, in accordance with the order of their choices, for their desired discipline/technology if later on any of them becomes available.

The candidates who cancel their given choices after selection by exercising their retaining / freezing option of the system (freeze their selected discipline) but later on cancel their admission for any reason, they will not be entitled for refund of their paid fees.

### **8.8 Rectification of Mistakes**

The Admission Merit Lists / Call Lists announced by the University are provisional and if any mistake is detected, it is rectified accordingly.

### **8.9 Admission of Candidates Who Fail to Deposit the Admission Fees on the Interview Day**

If any of the candidates fails to deposit admission fees on the day of interview, his/her seat will be allotted to the following candidate on the merit list.

### **8.10 Additional Marks**

The candidates, who have produced certificates of Hafiz-e-Quran on printed form from registered Madressahs and clear the test of Hifz taken by the University, are also considered to have additional 20 marks to be added to the marks of HSC.

### **8.11 Deduction of Marks Due to Gap in Education**

In case of a gap or repetition of HSC / Diploma Examinations, the merit is determined as described below:

One percent of the aggregate marks is deducted for each gap of one academic year after Matriculation examination from the total marks of HSC/Diploma examination or equivalent for the purpose of determination of merit in each District/Category. This deduction is applicable whether the HSC/Diploma Examination had been repeated or the gap had occurred owing to any other reason.

### **8.12 Selection Procedure against various Categories**

All the candidates who have applied for admission against the seats reserved under **Category-B** are considered first for admission against the seats reserved for their respective districts under **Category-A**. If a candidate who is selected against the district quota but does not get the discipline of his/her choice, his/her seat and discipline of that district may be transferred to the category applied for and he/she is given priority on merit basis in that category.

### **8.13 Closing of Admissions Process**

The admissions process for the session is made up to the end of **FOURTH week** from the date of start of the classes. After this period, no new admission is made. However, any change of discipline on merit is made up to seven (7) days after the closing date of admissions. The seats fallen vacant are not filled-up.

### **8.14 NOC and Study Leave Order for Candidates already in Service**

The candidates who are already in service at the time of submission of admission form should attach NO OBJECTION CERTIFICATE from their employers for their admission. After selection to the First Year Class, they are required to submit study leave order and relieving

order from their employers for study purpose at the University because the Bachelor's Degree Program is a regular full time and day program and no student admitted in this University is allowed to engage himself / herself in any employment during his/her studies.

### 8.15 Admission in any Other Institute

Being a full-time program of studies, no student of this University is allowed to enroll in any other full time or part time courses of studies in any other educational institution without prior permission of the authorities of the University. Violation of the above may lead to the cancellation of his / her admission.

### 8.16 Identity Card

The students, after getting admission at the University, are issued university smart identity cards by ICPC. It is necessary for the students to keep their valid identity cards with them while attending the classes, traveling in the point buses or staying on the campus.

### 8.17 Re-Admission Policy

Those students who are eligible for any semester of any year but remained absent from their classes and examinations for any reason, are considered for re-admission in the appropriate semester where they left their studies with the appropriate batch subject to application of other relevant rules by the Re-Admission Committee, provided that their absence is not more than **two calendar years**. However, their attendance to determine their eligibility to appear in the semester examination is considered from the date of issuance of re-admission order. Such admissions may be made **within four weeks** from the date of start of classes of particular session with full admission fee excluding enrollment card fee, smart card fee and caution money.

### 8.18 Enrolment Card

Each student is required to enroll himself / herself in the University after the finalization of the discipline in the First Semester of First Year and obtain smart enrolment card accordingly. In case of failure, he/she is not allowed to appear in the examination of the First Semester of the First Year.

### 8.19 Fees

#### Fees Payable at the Time of Admission:

Sr. No.	Description	Amount
a).	Admission Fee (Per Year)	Rs. 20,000
b).	Student Identity Card Fee (Per Year)	Rs. 500
c).	Marks Certificate Verification Fee (Once)	Rs. 2,500
d).	Enrollment Card Fee (Once)	Rs. 1,200
e).	Tuition Fee (Per Quarter) *	Rs. 30,000
f).	Examinations fee (including Marks Certificate) for Regular Examinations (Per Quarter)	Rs. 1,000
g).	Transport Charges (Per Quarter)	Rs. 4,000
<b>Total Fee Payable:</b>		<b>Rs. 59,200</b>
<b>University Caution Money Deposit – Refundable**</b>		<b>Rs. 6,000</b>

\* Tuition fee and other package fee per month is Rs. 10,000 which is payable quarterly (10,000 x 3 = 30,000). The deserving students are provided financial support for the payment of tuition fee.

\*\* Refundable only after Completion of Degree Course, in case of cancellation of admission at any stage Caution Money will not be refunded.



## 8.20 Roll Numbers

The roll numbers assigned to the successful candidates shall be as under:

- |             |              |
|-------------|--------------|
| i. 22BSCET  | iii. 22BSMET |
| ii. 22BSEET | iv. 22BSCYS  |

## 8.21 Other Information

- Admission fee is payable only once in the beginning.
- Candidates once admitted under these schemes shall not be allowed to change the discipline unless the seats in the desired disciplines are available.
- The University follows the National Level Fee Refund Policy at Higher Education Institutions of Pakistan which is as under:

% of Tuition Fee	Timeline for Semester
Full 100% fee refund	Up to 7 <sup>th</sup> day of convene of classes
Half 50% fee refund	Up to 15 <sup>th</sup> day of convene of classes
No Refund 0%	From 16 <sup>th</sup> day of convene of classes

## 8.21 Migration / Transfer

- (i). Migration is only allowed to and from any Public Sector University accredited by PEC and foreign university(ies) recognized by Higher Education Commissions (HEC).
- (ii). Migration / Transfer is not allowed to the students in the first and final years with less than 50% Credit Hours required for the degree.
- (iii). Migration / Transfer is not allowed to the students admitted on reciprocal basis.
- (iv). Migration / Transfer is allowed only in the cases of extreme hardship for the students or if it is considered in the best interest of the University by the competent authority. The decision of the University is final and binding in this regard.
- (v). The students failing in previous semesters (i.e., less than 50% marks) shall not be eligible for admission on migration / transfer basis.
- (vi). The migration / transfer of the local students would be allowed on the payment of Rs. 800,000/- (Rupees Eight Hundred Thousand Only) + Applicable Tax *currently* 5% (Total Rs. 840,000/-) to the Mehran UET; while foreign students would be required to pay Rs. 1,200,000/- (Rupees One Million Two Hundred Thousand Only) + Applicable Tax *currently* 5% (Total Rs. 1,260,000/-) as migration fee. The nominees are required to submit NO OBJECTION CERTIFICATE (NOC) of the nominating agency.
- (vii). Admission on migration basis is made up to the fourth week of the start of the classes of a particular session.

### MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

**Regulations (Revised) regarding the General Scheme of Studies for the Bachelor's Degree Programs (including B.E, B.Arch, B.CRP, BS and BBA) of the Mehran University of Engineering and Technology, under Section 47(1) (n) of the Act 1977.**

1. **Short Title.** These Regulations may be called the Mehran University of Engineering and Technology Bachelor of Degree Courses Regulations 2021, repealing such regulations framed by the University authorities (if any).
2. These Regulations shall be subject to the Mehran University of Engineering and Technology General scheme of Studies for the Bachelor's degree courses Statutes 2012.
3. **Commencement.** These Regulations shall be deemed to have come into force with effect from **21 Batch.**
4. **Definitions.** In these Regulations unless otherwise expressly stated:
  - i. "University" means the Mehran University of Engineering and Technology, Jamshoro.
  - ii. "Academic Year" means the Academic Year of the University.
  - iii. "Spring / Fall Semester" means a Period of 21 weeks out of an academic year for teaching and evaluation and /or guidance of the students of the University.
  - iv. "Summer Semester" means a Period of 08 weeks out of an academic year for teaching and evaluation and /or guidance of the students of the University.
  - v. "Vice-Chancellor", "Pro Vice Chancellor", "Dean", "Director", "Chairman / Chairperson" "Teacher" and "Controller of Examinations" means respectively the Vice-Chancellor, the Pro Vice Chancellor, the Dean of Faculty, the Director of Institute, the Chairman/Chairperson of Teaching Department, the Teacher and the Controller of Examinations of the University.
  - vi. "Departmental Committee". Each Department/ Institute will have a Departmental Committee consisting of three senior most teachers of the Department / Institute including Chairman/ Chairperson/ Director as convener.
  - vii. "Credit Hours (C.H.)" have been defined in section 6.
  - viii. "Quality Point (Q.P.), Grade Point Average (G. P.A.), and "Cumulative Grade Point Average (C.G. P.A.) has been defined in section 17.

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*Approved by Academic Council in its 100<sup>th</sup> meeting held on 24<sup>th</sup> August, 2021, vide resolution No. 100.8 and approved by the Syndicate in its 152<sup>nd</sup> meeting held on 23<sup>rd</sup> September, 2021, vide Resolution No. 5 (xiii).*

5. Undergraduate Structure of Bachelor's Degree Course in Engineering, City & Regional Planning, Architecture, Business Administration, Mathematics, Computer Science and English is given below Table 5.1

**Table 5.1**

Description	Degree Programs	
	04 Year	05 Year
Total No. of Credit Hours (Minimum)	130	160
Total No. of Credit Hours (Maximum)	140	180
Semester Duration	Minimum of 16 weeks of teaching excluding examinations	
Course Duration	Minimum of 8 semesters Maximum time limit of 6 years, further extendable for one year with the approval of Statutory Bodies	Minimum of 10 semesters Maximum time limit of 7 years, further extendable for one year with the approval of Statutory Bodies
Summer Session	For deficiency / failure, repetition of courses up to 9 credit hours (08 Weeks duration)	
Course Load per Fall / Spring Semester for Regular Full -Time Students	15-18 Credit Hours (In special cases 15 –19 Credit Hours)	

**6. Credit hours for undergraduate degrees**

- 6.1 A credit hour means teaching/learning a theory course for one hour each week throughout the semester.
- 6.2 One credit hour in laboratory or practical work/project would require lab contact of three hours per week throughout the semester.
- 6.3 The credit hours are denoted by two digits within brackets with a plus in between. The first digit represents the theory part while the second (right side) digit represents the practical. Below Table 6.1 gives the possible distribution of Theory and Practical Credit hours.

**Table 6.1 Distribution of Theory and Practical Credit Hours**

Credit Hours	Distribution in Theory and Practical Hours
01	(0+1)
02	(2+0) / (0 + 2)
03	(3+0) / (2 + 1) / (0 + 3)
04	(3+1) / (0 + 4)

**7. Course layout for undergraduate students**

- 7.1 4-year undergraduate degree programs are composed of 130-140 Credit Hours in which 130 represents the minimum and 140 represents the maximum credit hours required to be completed.

- 7.2 5-year undergraduate degree program (Bachelor of Architecture) is composed of 160-180 Credit Hours in which 160 represents the minimum and 180 represents the maximum credit hours required to be completed, subject to meeting the requirements of the respective Accreditation Councils.
- 7.3 Undergraduate curriculum structure
- i. **For Engineering programs:** The courses for the Engineering & Computer Science programs will consist of minimum 130 credit hours out of which a minimum of 85 credit hours of engineering and computer science courses and a minimum of 30 credit hours of non-engineering (mathematics, humanities and natural sciences) courses offered over a period of four years (8 semesters), subject to meeting the requirement of the respective Accreditation Councils.
  - ii. **For Computer Science programs:** The courses for the Computer Science program will consist of minimum 130 credit hours, out of which a minimum of 100 credit hours of Computing and Computer Science courses and minimum of 30 credit hours of general and university courses, subject to meeting the requirement of the respective Accreditation Councils.
  - iii. **For Social & Basic Sciences programs:** The courses for social and basic sciences disciplines will consist of 60-65% of curriculum towards the discipline specific areas, and 35-40% minor/electives, subject to meeting the requirement of the respective Accreditation Councils.
- 7.4 **Final Year Project (FYP) / Thesis / Business Plan:** Every student should write a thesis project report /Business Plan in the final year, of 06 credit hours individually or in a group comprises of maximum 03 students, on approved research.
- 7.5 **Internship:** Students should be encouraged to do internship in industry / research / business organization.

## 8 Fall/spring semester

- 8.1 There will be two regular semesters (Fall, Spring) in an academic year. Following is the breakup:
- |      |                                           |          |
|------|-------------------------------------------|----------|
| i    | Teaching duration of Fall semester        | 16 Weeks |
| ii   | Conduct of Mid Semester Exam              | 01 Week  |
| iii  | Preparation of final Fall Semester Exam   | 01 Week  |
| iv   | Conduct of final Fall Semester Exam       | 02 Weeks |
| v    | Semester Break                            | 01 Week  |
| vi   | Teaching duration of Spring Semester      | 16 Weeks |
| vii  | Conduct of Mid Semester Exam              | 01 Week  |
| viii | Preparation of final Spring Semester Exam | 01 Week  |
| ix   | Conduct of final Spring Semester Exam     | 02 Weeks |
| x    | Semester Break                            | 01 Week  |
| xi   | Summer Break / Summer Semester            | 08 Weeks |
| xii  | Winter Break                              | 02 Weeks |

**TOTAL 52 WEEKS**

## 9 Summer semester

- 9.1 Summer semester will be offered as an optional semester of 08 weeks duration. Students will be offered courses to remove deficiencies and can register up to 09 credit hours for summer semester.

- 9.2 Moreover, a student who has either failed or has been stopped to take the examination due to shortage of class attendance or wishes to improve his/her grade (if obtained 'C' Grade) is allowed to register in summer semester.
- 9.3 The contact hours per week during the Summer Semester will be doubled to ensure that the course is completely taught in a summer session with half of the duration as compared to a regular (Fall/Spring) semester.
- 9.4 All the qualifying rules for Fall / Spring semester will be applicable to summer semester.
- 9.5 There will be no supplementary / special examination after the adoption of summer semester.
- 9.6 The course in Summer Semester will be offered with the minimum course registration of 05 students (where intake of students is small, minimum course registration should be 50 % failure students)

## **10 Academic Calendar**

- 10.1 The calendar will include the following information: to be adopted from next academic year.
  - a. Date of start of classes
  - b. Conduct of mid semester
  - c. Date of suspension of classes
  - d. Schedule of examination
  - e. Display of sessional marks
  - f. Examination preparation up to
  - g. Conduct of final semester exam
  - h. Announcement of results
  - e. Mark sheet / Transcript issues dates.

The academic calendar will be prepared for Fall Semester and Spring Semester of each academic year.

- 10.2 In case a university is closed due to unusual circumstances, then makeup classes may be arranged converting weekends or holidays or evening classes to working days or evening classes to cover the lapsed period of the students.

## **11 Withdrawal of Courses from Fall / Spring Semester**

- 11.1 Students may be allowed to withdraw from a course during first 6 week of the semester. In such a case the transcript shall record that the student enrolled in the course and withdrew. Consequently, grade W will be awarded to the student which shall have no impact on the calculation of the CGPA of the student.
- 11.2 A student withdrawing after the 6<sup>th</sup> week shall be automatically awarded "F" grade which shall count in the GPA and stay on the transcript.

## **12 Repeating courses / improvement of CGPA**

- 12.1 If a student gets 'F' grade, she/he will be required to repeat the course. However, "F" grade obtained earlier will also be recorded on the transcript.
- 12.2 Undergraduate students may be allowed to repeat a course in which she/he has obtained grade "C". In such a case both the previous and new grade obtained will be recorded on the transcript, however, only the better grade shall be used in the calculation of CGPA.
- 12.3 In case of CGPA improvement, it would be recorded with (Imp) on the transcript.

### 13 Attendance

Minimum 75 % attendance in a course is required to appear in the examination of that course. (Condonation may be limited to 70%)

### 14 Examination

14.1 In each semester, students may be required to appear in quizzes, tests, mid semester, final semester examinations, presentations (individual/group), group discussion, and submit projects/assignments/lab reports etc. These assessment marks (to be determined by the teacher concerned) may have different weightage contributing towards the overall assessment in percent marks.

**This weightage may be determined on the basis of following table:**

#### THEORY

Sr. No.	Description	Theory of Maximum 100 marks	Theory of Maximum 50 marks
i.	Quizzes / Test(s)	10	05
ii.	Assignments / Projects / Presentations	10	05
iii.	Mid Semester Exams (With No Option)	30	15
iv.	Final Semester Exams	50	25
	<b>Total Marks</b>	<b>100</b>	<b>50</b>

#### PRACTICAL

Sr. No.	Description	Max Marks (100 %)	Subjects having Course Code of Arch. Deptt.
i.	Lab Rubric	30%	30%
ii.	Open Ended Lab / Mini Project	20%	20%
iii.	Final Exam; Objective Test *	30%	20%
vi.	Final Exam; Conduct of Practical / Viva Voce / Jury *	20%	30%

\* Appearance in Final Examinations is mandatory

#### **FINAL YEAR PROJECT / THESIS / BUSINESS PLAN**

Semester	Thesis CH	Thesis Credit marks	Max. Sessional Marks (By Supervisor)	Maximum Marks for Thesis Viva Voce / Exam		
				Internal	Expert	Chairman
7 <sup>th</sup>	3	100	25	25	25	25
8 <sup>th</sup>	3	100	25	25	25	25

14.2 In the beginning of a semester, the instructor of each course should hand out a syllabus providing information to the students about assessment criteria, paper specification, schedule of material to be taught (TTP and Lesson Plan), take home assignment policy, recommended reading materials and any other information important for the successful completion of the course and its requirements.

- 14.3 To implement semester system effectively the subject teacher must display his/her provisional result within five days after the conduct of final exam of that subject and submit the same to the controller of examination for final announcement.
- 14.4 Expert / External examiner will be called only for Final Year Project/ Thesis / Business Plan Examination.

## 15 Grade Equivalent

GRADE	GRADE POINT	PERCENTAGE OF MARKS
		THEORY / PRACTICAL / PROJECT
A+	4.0	> 90%
A	3.5	89% - 81%
B+	3.0	80% - 73%
B	2.5	72% - 65%
C+	2.0	64% - 60%
C	1.5	59% - 55%
C-	1.0	54% - 50%
F	0.0	< 50%
W*	N/A	N/A
I**	N/A	N/A

\* Withdrawn

\*\* Incomplete

*Note: The results will be prepared on the basis of Grade Point Average (G.P.A). Fraction is to be considered as a whole number.*

## 16 Computation of semester grade point average (GPA) and cumulative grade point average (CGPA)

### GPA:

This is a figure ranging preferably from 0.00 to 4.00 be used to indicate the performance of a student in the semester concerned. A standard scale of 0.00 to 4.00 is adopted.

$$\text{GPA} = \frac{\text{Sum of all courses in a semester (Course Credit Hours x Grade Point Earned)}}{\text{Total Credit Hours taken in the semester}}$$

Semester Grade Point Average (GPA) and Cumulative Grade Point Averages (CGPAs) will be calculated using following relationship:

$$\text{CGPA} = \frac{\text{Sum of all courses taken in all semesters (Course Credit Hours x Grade Point Earned)}}{\text{Total Credit Hours taken in all Semesters}}$$

## 17 CGPA required for the completion of undergraduate

- 17.1 For completion of the degree, the minimum qualifying CGPA for Bachelor's Degree Programs (including B.E, B.Arch, B.CRP, BS and BBA) is 2.00.
- 17.2 In case a student secures less than 2.00 CGPA (minimum qualifying CGPA) at the end of final Semester, she/he may be allowed to get re-admission in one or more courses,

in which his/her Grade is below C, provided that she/he is not debarred under the time duration specified for the program (as defined in **Table 5.1**)

## **18 Transfer of credit hours for undergraduates**

- 18.1 Credits are transferred on course-to-course basis i.e. a person taking course A at University X is allowed to transfer his/her credits to University Y provided that course A is equivalent to course B taught at the Y University.
- 18.2 No credit hour of a course will be transferred if the grade is less than C for undergraduate.
- 18.3 Credit hours may only be transferred between duly recognized HEIs and Internationally recognized Universities.

## **19 Format of final transcript**

The final transcript for the award of degree includes following information:

### **Front Side:**

- Name of Student
- Father's Name
- Surname/Last Name
- Date of Birth
- Roll No.
- Enrolment No
- Name of the Programme
- Date of Admission into Degree Program
- Semester Wise Break-up
- Subjects Name along with Credit Hours
- Type of Enrolment – Full Time
- Picture of the Applicant be Printed on Transcript
- Date of Completion of Degree Requirements
- Mode of Study – Regular
- Medium of Instruction- English
- Online Result Verification Key/ID (Front Side at the End of the Transcript)
- GPA/CGPA (at the End of the front side of Transcript)

### **Back Side:**

- Basic Admission Requirement of the Programme
- Previous Degree held by the student along with Institution Name
- Credit Hours Exempted/Transferred if any/applicable.
- CNIC No. for Pakistani and Passport No. for Foreign Students
- Grading System must be mentioned on Back Side of the Transcript
- Charter Date of the University/DAI may be mentioned
- Name of Campus/College be mentioned along with HEC Permission Date
- Signature of Issuing Officer(s) (Front and Back Side at the end of the Transcript)
- The transcript must have the water-mark seal on it.
- For equivalence of CGPA to percentage, for transcript purpose only, below Table be placed

<b>CGPA</b>	4.00	3.5 – 3.99	3.3 - 3.49	2.5 - 2.99	2.0 - 2.49	1.0 - 1.99
<b>Equivalent %age</b>	95	87	79	70	62	55



## 20 Departmental committee

Each Department/ Institute will have a Departmental Committee consisting of three senior most teachers of the Department / Institute including Chairman/ Director to assess the progress of the students during the semester and the results of all the examinations including the final semester examination. In case of any discrepancy in the results, during scanning process, the concerned committee will assign a subject expert (other than the Subject teacher) for rechecking the Scripts. The final recommendations of the Departmental Committee concerning the results will be submitted through the concerned Dean and Pro Vice Chancellor / Vice Chancellor for consideration and approval.

## 21 Course file

Maintaining the Course File is compulsory for all faculty members. It should have complete record of every activity that happens during the course. The course file should contain:

### (For Theory)

1. Academic Calendar
2. Course contents with defined CLOs, taxonomy level and linking to PLOs
3. Tentative Teaching Plan
4. Lesson Plan
5. Classes Time Table and student counselling hours including record of makeup classes (if any)
6. Semester Progress Report
7. Student's attendance register
8. Teaching material
9. Class sessional activities and record (Tests/ Assignments / etc. with solutions)
10. Mid Semester and Final Exams Question papers and solutions
11. Sample of best, worst and average answer sheets of Tests / Assignment / Exams
12. Award Lists
13. Assessment Sheet conforming to the CLOs and PLOs
14. Course Evaluation Report

### (For Practical)

1. Academic Calendar
2. List of Experiments
3. Tentative Teaching Plan
4. Laboratory Time Table
5. Student's attendance register
6. Laboratory Manual / Workbook
7. Rubrics Sheet
8. Sample of Objective type paper with solution
9. Sample of Best, Worst, and average Objective type test
10. Award Lists
11. Assessment Sheet conforming to the CLOs and PLOs
12. Course Evaluation Report

## 22 Freezing of semester

- 22.1 If a student freezes a semester(s), she/he will resume his/her studies from the same stage where she/he left (froze). No freezing during the semester will be allowed. The maximum duration of the degree program shall remain the same.
- 22.2 The duration of Freezing is one year; a candidate who gets a semester freeze can get readmission next year with upcoming session.

## **23 Indiscipline in examinations (Unfair Means Cases Committee)**

- 23.1 Any candidate found guilty of following matters; his/her case will be submitted to Unfair Means Cases Committee constituted by the University.
- i Removes a leaf from his/her answer book, the answer book shall be cancelled.
  - ii Submits forged or fake documents in connection with the examination.
  - iii Commits impersonation in the examination.
  - iv Copies from any paper book or notes.
  - v Mutilates the Answer Book.
  - vi Possesses any kind of material, which may be helpful to his/her in the examination.
  - vii Does anything that is immoral or illegal in connection with the examination and which may be helpful to him/her in the examination.
  - viii Refuses to obey the invigilation staff or refuses to follow the instructions issued by the University in connection with the examination.
  - ix Misbehaves or creates any kind of disturbance in or around the examination centre
  - x Uses abusive or obscene language on the answer script.
  - xi Possesses any kind of weapon in or around examination centre.
  - xii Possesses any kind of electronic device which may be helpful in the examination

His / her case shall result in penalties keeping in view the nature and intensity of offence.

- i. Cancellation of paper\*.
- ii. Suspension from programme for one semester.
- iii. Heavy and light Fine
- iv. Expulsion forever from the University.
- v. Any other.

\* Unfair Means Cases Committee will decide that the student will have to appear in summer semester/with regular semester for the cancelled paper.

## **24. Appeal against the decision of the Unfair Means Cases Committee**

If a student is not satisfied with the decision of the Unfair Means Cases Committee, she/he can submit his/her appeal within a week after the decision of the Committee to the Vice Chancellor. No appeal shall lie against the decision of the Syndicate.

## **25. Probation**

Probation is a status granted to the student whose academic performance falls below the minimum University standard.

- i. The students acquiring less than 2.00/4.00 GPA in a semester but passing in all papers will be promoted with the condition to achieve more than 2.0 GPA in the next semester and she/he will be put on probation for the next semester. In this case, the registration in summer semester is optional.
- ii. The students acquiring GPA 1.7 and above but failing in any paper(s) will be placed on probation and promoted to the next semester conditionally. They will have to be registered for summer semester to improve the grade.
- iii. Students acquiring GPA less than 1.7 in two consecutive semesters and failing in any paper(s) even after attending summer semester for one academic year will be dropped from university rolls. However, she/he will be eligible to seek re-admission. Re-admission will be allowed only once during 4 years Bachelor degree program. Re-admission will be allowed after the payment of full admission fee.

- iv. Students on probation in two consecutive semesters even after attending summer semester in one academic year will take re-admission in that particular academic year once only.
- v. There will be maximum two academic probations in 04 years / 05-year Bachelor degree programs. Both the probations cannot be granted / availed in first four semesters. A student who is on probation 2<sup>nd</sup> time even after attending summer semester in first four semesters shall be removed from university rolls. However, she/he can take re-admission only once during 4 years Bachelor degree program.
- vi. In case of valid reason / excuse, the period of study may be extended for one additional year (Two semesters) in all university programs. The student(s) who will not complete studies within stated periods including extension shall be struck off from the university rolls. The students who have been given the right to extend the duration of study for one additional year are required to pay full admission fee.

## **26 Permission of writer for special students**

- 26.1 A visually impaired student may be allowed to attempt the Mid/Final Examinations of the University on Braille/ Computer/any other means of facilitation.
- 26.2 In case a student is physically handicapped/visually impaired, she/he may apply to the Chairperson of the respective department (with medical certificate as proof of her/his disability) for permission to engage a writer in Tests/ Examinations of the University two weeks before the start of Tests/ Examinations. She/he will be allowed 45 minutes (maximum) extra time to solve the question paper.
- 26.3 The qualification of the person who acts as writer of a handicapped student must be at least one step lower than that of the student. (e.g. for level 6 student, the writer should be at the most of level 5).

## **27 Damaged/lost answer script**

In an exceptional case where an answer script is damaged, lost or destroyed due to unavoidable circumstances, then the student may be given the following options:

- i Average marks shall be awarded to the student in that subject/course.
- ii In case of Final Year Examination, if the candidate so desires, she/he shall be given another chance as a special case to take the Examination in that subject/course in the next examination and no examination fee shall be charged from the student.

## **28 Awards and distinctions**

- i. Medals/Positions will be awarded to the students passing their courses/papers in Semester System in the first attempt only.
- ii. In the Semester System, Letter Grades will be awarded on the basis of GPA / CGPA and Positions would be given on the basis of CGPA. In case two or more students are acquiring same CGPA only then the Positions will be shared among those students.
- iii. No medal and position will be granted to candidates who passed the examination in 2<sup>nd</sup> attempt.
- iv. No Medal/Roll of Honor will be awarded in the case of improving CGPA.
- v. The disciplines where number of students is less than 05, no position will be awarded in semester system.

## **29 Re-admitted Students**

These rules & regulations are also applicable to those student(s) who have got re-admission with 21 and onward batch(es).

## 10. STUDENTS CONDUCT AND DISCIPLINE REGULATIONS

The **Regulations (Revised)** regarding the **conduct and discipline of students** of Mehran University of Engineering and Technology, under section 47(1) of the Act, 1977.

### 1 Short Title

These Regulations may be called the Mehran University of Engineering & Technology Students' Conduct and Discipline Regulations, 1978 as amended up to 31.03.2007.

### 2 Commencement and Applications

These Regulations shall come into force with immediate effect and shall apply to all the students of the University / Campus, and the Colleges / Institutes / Centre of Excellence affiliated to the University.

### 3 Definitions

In these regulations, unless otherwise expressly stated:

- (i) "University" means the Mehran University of Engineering and Technology Jamshoro.
- (ii) "Campus" means all area-, anti-building structures including Academic Block/ teaching departments, Hostels or Halls of residence of students, Administration Block, sports grounds-gymnasium and any staff residential area, recreational areas for students and staff and my other such areas, buildings or facilities created within the specified boundary of the University and likewise areas of affiliated Colleges/ Institutes/Center of Excellence.
- (iii) "Syndicate" means the Syndicate of the University.
- (iv) "Vice-Chancellor" means the Vice-Chancellor of the University.
- (v) "Pro-Vice Chancellor means the Pro-Vice Chancellor of the main campus or any other campus of the University
- (vi) "Discipline Committee" means the Discipline Committee of the University constituted under the First Statutes appended to Mehran University Act, 1977, and/or constituted separately for the constituent or affiliated Colleges/ institutes/ Center of Excellence by the governing body or management of that College/ Institute/Center of Excellence with the approval of the Vice- Chancellor, Mehran University of Engineering & Technology.
- (vii) "Deans\*, "Director of an Institute/Chairman of the Department", "Teacher In-charge of the Class / Class Advisor", "Subject Teacher", "Workshop Instructor", "Workshop Superintendent", "Provost", "Deputy Provost", "Warden", "Director Sports", "Games Jn- charge", "Director Students Affairs", "Student Welfare Officer", "Advisor Student's Affairs" and "Principal"/"Director" of the Affiliated College / Institute / Center of Excellence, respectively, means the Dean, Director of Teaching institute/Chairman of a Teaching Department, Teacher in-charge of the class / Class Advisor, Subject Teacher, Workshop Instructor, Workshop Superintendent, Provost, Deputy Provost, Warden, Director Sports, Games In-charge, Director Students' Affairs, ShIdems Welfare Officer, Advisor Students' Affairs appointed as such by the competent authority and mutatis-mutandis officers/teachers in the affiliated college / Institute / Center of excellence.

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\* In case of Campus "Director Administration"

The Regulation approved by the Syndicate vide Resolution No. 104.3 (ix.x), dated 31<sup>st</sup> March, 2007.

\* Amended by the Academic Council vide Resolution No. 97.18, dated 4<sup>th</sup>, June 2020 and approved by the Syndicate vide Resolution No.150.4 (iv), dated 11<sup>th</sup> July, 2020.

#### **4 Every Student shall Observe the Following:**

- (a) He / She must be faithful to his/her religious duties and respect the convictions of others in matters of religion and customs.
- (b) He / She must be loyal to his/her country and refrain from doing anything which might lower its honor and prestige.
- (c) He / She shall be truthful and honest in his/her dealings with all people.
- (d) He / She must respect the elders and be polite to all specially to the women, the children, the old people, the weak and the helpless.
- (e) He / She must respect his/her teachers and others in authority in the University.
- (f) He / She must keep his/her mind clean and be clean in speech, sports and habits.
- (g) He / She shall help his/her fellow beings especially those in distress.
- (h) He / She must devote himself/herself faithfully to his/her studies and obey and follow the rules, instructions, guidelines issued by the University authorities from time to time.
- (i) He / She must observe thrift and protect property.

#### **5 No Student Shall:**

- (a) Smoke in his / her classroom, laboratory, workshop, library, examination hall or convocation hall, within any University building and during any academic functions/ academic activity.
- (b) Consume alcoholic liquor or other intoxicating drugs within the University Campus or during the instructional, sports or cultural tours or survey camps or enter any such place or attend any such tour or camp while under the influence of such intoxicants.
- (c) Organize or take part in any function within the University Campus, organize any club or society of students without prior permission from the University authorities.
- (d) Invite any speaker without the permission of the University authorities.
- (e) Indulge into activities against the Islamic and Pakistan Ideology or national solidarity.
- (t) Indulge into activities promoting, prompting or involving violence or hatred or contempt.
- (g) Affiliate himself / herself with any political party or group and organize or take part in holding political gatherings and invite any politician, expelled or rusticated or debarred students, and anti-social elements in the University Campus.
- (h) Use pressure tactics or political or personal influence in seeking academic / non-academic favor concessions or financial benefits or in other matters concerning academic / non-academic and administrative functions of the University authorities.
- (i) Copy or help others in copying in examination, or cause by any means any disturbance in examinations including harassment of any teacher or other staff member or staging of walkout / boycott by himself / herself or by forcing others to do so or appear in examination in place of a bonafide eligible candidate or manage an outsider for impersonation or take unauthorizedly the whole or part of answer book/script out of an examination premises or tear scripts or any part thereof or indulge in substitution of Answer books or influence any employee to indulge in any malpractices;
- (j) Bring, keep or use any kind of weapon or firearms within the University Campus.
- (k) Use or occupy fully or partially any room or any building of the University Campus without prior permission from universities authorities.

- (l) Organize or take part in procession or meeting within the University Campus, prejudicial to the peaceful atmosphere of the University.
- (m) Stage, incite, or participate in or abet any walk-out, strike, or any other form of agitation against the University or its employee.
- (n) Collect any money or receive donations or pecuniary assistance for or on behalf of the University or any organization except with the written permission of the Vice-Chancellor or any other person authorized by him in this regard.
- (o) Bring, keep, or use mobile phone during Examinations.
- (p) Use mobile phone during class/practical or in the library without prior permission from the concerned authority.
- (q) Commit any cyber offense against individuals or group of individuals or organization with a criminal motive to intentionally harm the reputation of the victim or cause physical or mental harm/loss, threaten a person or a nation's security or financial health, or loss, to the victim directly or indirectly, using modern telecommunication networks and mobile phones.
- (r) Commit online defamation, harassment, threat and blackmailing via social networking sites such as Facebook, Twitter etc. against University or any employee of the University.
- (s) Use official logo(s) of the University on any form without prior permission from the University authorities.
- (t) Snatch any item, tease any male / female students, demonstrate indecent or immoral gestures / attitude towards any male/ female students on the Campus.
- (u) Show indecent behavior during the class (including online class) and /or disturb Teacher or any other student of the class by any means
- (v) Abuse/violate TT policies framed or to be framed from time to time.

#### **6. Responsibility to Maintain Discipline**

The teachers and officers of the University or committees formed under them for the purpose and others concerned with the students in the University are responsible for the maintenance of discipline and order among the students, \ while under their charge, and for dealing with any disorderly behavior promptly in the manner prescribed by these regulations.

#### **7 Discipline Committee**

The Discipline Committee shall deal with serious cases of indiscipline requiring such actions as prescribed by Regulation 10.

#### **8 Act of Indiscipline**

A teacher or an officer in whose presence or in relation to whom an act of indiscipline is committed or who obtains knowledge of such an act on report or otherwise, shall deal with the case himself/herself as he/she may be competent as provided under the Regulation 10 below, and in other case, he/she shall inform and recommend the case to the higher authorities/bodies for necessary action as prescribed.

#### **9 Grounds of Penalties**

- (i) Any one or more of the penalties mentioned in Regulation 10 may be imposed on a student who is guilty of one or more of the following acts/ charges:
  - (a) commits breach of any of the clauses specified in Regulations 4 or 5 above; or
  - (b) disobeys the lawful order of a teacher or other person in authority in the University; or

- (c) habitually neglects his/her work or habitually absents himself / herself from the class without reasonable cause; or
  - (d) willfully damages University property or the property of a fellow student or any teacher or any employee of the University; or
  - (e) does not pay the fees, fines or other dues livable under the University Regulations; or
  - (f) does not comply with the Regulations relating to the residence in the hostels or halls of residences.; or
  - (g) uses indecent language, wears immodest dress, makes indecent remarks or gestures or behaves in a disorderly manner; or
  - (h) commits any criminal, immoral or dishonorable act (whether commitItXI within the University Campus or otherwise) which brings bad name to the University.
- (ii) The penalty or penalties imposed shall be appropriate and proportional to the nature and gravity of the above act or acts.

## 10 Penalties

The penalties which may be imposed and the authority or authorities competent to impose each kind of penalty are specified below:

CATE-GORY	PENALTY	AN OFFICER OR AUTHORITY COMPETENT TO IMPOSE THE PENALTY
(A).	(i) Exclusion from classroom /laboratory/ field work / workshop for a period not exceeding one week from his / her own classes	Subject Teacher / Workshop Instructor
	(ii) Impose fine up to Rs. 1000/-	-do-
(B).	(i) Exclusion from the games or the field for the day	In charge concerned
	(ii) Exclusion from Study or sports tour or survey camp	-do-
(C).	Fine not exceeding Rs. 1,000/-	Teacher In Charge/Class Advisor or Superintendent of Workshop.
(D).	Taking any digital device, containing objectionable data, into custody.	In charge concerned.
(E).	(i) Exclusion from the department for a period not exceeding one week.	Chairman / Chairperson of the Teaching Department / Director of the Teaching Institute.
	(ii) Impose fine up to Rs. 3,000/-	-do-
	(iii) With-holding of issuance of character certificate.	-do-
(F).	Fine not exceeding Rs. 7,000/-	Advisor Students' Affairs or on the recommendation of Advisory Committee Member(s)
(G).	(i) Exclusion from the department for a period not exceeding two weeks.	Dean of concerned Faculty on recommendations of the concerned Departmental Committee.
	(ii) Suspension of admission from the University for a period specified or unspecified pending the final decision.	-do-

<b>CATE- GORY</b>	<b>PENALTY</b>	<b>AN OFFICER OR AUTHORITY COMPETENT TO IMPOSE THE PENALTY</b>
<b>(G).</b>	(iii) Fine not exceeding Rs. 10,000/-.	Dean of concerned Faculty on recommendations of the concerned Departmental Committee.
<b>(H).</b>	(i) Fine not exceeding Rs. 25,000/-	Pro-Vice Chancellor; (i) on the recommendations of the Dean of the concerned and the concerned Departmental Committee. (ii) on the recommendations of the Advisory Committee.
	(ii) Exclusion from the department for a period not exceeding three weeks.	-do-
<b>(I).</b>	(i) Fine not exceeding Rs. 100,000/-	Vice Chancellor on the recommendations of Pro-Vice Chancellor / discipline committee / unfair means committee.
	(ii) Cancellation of examination or part there-of or debaring from appearing in any examination or part there-of	Vice-Chancellor on the recommendations of the Discipline Committee.
	(iii) Cancellation of remission of fee or University Scholarship.	Vice-Chancellor on the recommendations of the Pro-Vice Chancellor/Dean of the Faculty concerned/ Advisor Student Affairs
	(vi) Suspension or removal from position of authority in the University Sports	Vice-Chancellor on the recommendations of the Executive Committee of the University Sports Board
	(v) Rustication / Expulsion from the University for a period not exceeding one year	Vice-Chancellor on the recommendations of the Discipline Committee.
<b>(J).</b>	(i) Rustication/expulsion from University for a period exceeding one year	Syndicate 011 the recommendations of the Discipline Committee.
	(ii) Cancellation of admission from the University.	Syndicate on the recommendations of the Discipline Committee.
	(iii) With-holding issuance of any degree	Syndicate on the recommendations of the Discipline Committee.

Provided that the superior authorities shall be equally competent to impose lighter penalties with the competence of interior authorities as prescribed above.

## **11 Chance of Defense**

No student shall be rusticated or expelled from the University unless he/she has been allowed a reasonable chance of defending the accusation against him/her provided that if the competent authority is satisfied it may take such an action under emergency to avoid any grave consequences.

## **12 Appeal against penalties**

- (i) An appeal against imposition of the penalties shall lie with the Vice-Chancellor, provided that where the penalty has been imposed by the Vice-Chancellor, himself: an appeal shall lie with the Syndicate.

Provided that when a penalty has been imposed by the Syndicate, an application for review can be made to the Syndicate.

- (ii) No appeal by a student under these Regulations shall be entertained unless it is presented



within two weeks from the date on which the decision is communicated to him/her, provided that the Vice-Chancellor may for valid reasons condone delay in any individual case.

**13. Compensation**

The Vice-Chancellor or any teacher or officer duly authorized by the Vice Chancellor / Principal / Director of the Affiliated Colleges / Institutes / Center of Excellence may direct a student to pay compensation for any loss or damage to property belonging to the University or to fellow student or to an employee of the University, caused by willful act or gross negligence of the student and if the student does not pay such compensation within a reasonable time, competent authority, as the case may be, may take suitable action against him / her for indiscipline and impose upon him/her any of the penalties prescribed by Regulation 10 above.



## GENERAL INSTRUCTIONS

In order to conduct the test efficiently and transparently, the candidate must follow the following instructions and the instructions given by the Invigilators:

1. The Test consists of 100 questions and is divided into four parts as follows:

Total time to attempt all questions is 60 minutes (01 hour).

**Pre-Engineering group:** Physics, Chemistry, Mathematics and English (25 questions each)

**General Science group:** Physics, Computer Science, Mathematics and English  
(25 questions each)

2. The request of group change (Pre-Engineering, Pre-Medical, General Science or Others) will not be allowed on the Test Day.
3. There will be no negative marking on wrong answer. Each correct answer carries one mark.
4. The Computer Based Test (CBT) credentials shall be provided to the candidate.
5. The candidate shall follow the instructions by Invigilators for login and commencement of the test.
6. All rough work must be done only on the provided rough-work sheet. The rough work sheet is the property of the University, and each candidate will have to return the rough work sheet at the end of the Test. **If any candidate takes away the rough work sheet for any reason, he/she will be treated according to the law and his/her name will be removed from the list of the candidates for admission.**
7. The selected answer can be changed any time before termination of the Test.
8. Opening of any other website or software is strictly prohibited.
9. **During the Test, if any candidate terminates the test intentionally or unintentionally, he/she will not be allowed to continue the Test.**
10. **During the Test, do not talk, whisper, or turn eyes away from your dedicated screen. Candidate(s) found doing so will be removed from the list of the candidates for admission.**
11. **Any evidence of impersonation, cheating or non-compliance with instructions will disqualify the candidate(s) and will be removed from the list of the candidates for admission.**
12. Don't leave your seats unless and until allowed.



# Part I

## English

### Vocabulary

1. A week before the MUET exam, Ahmad started to \_\_\_\_\_ vocabulary, which he had not studied yet.
- a) Underscore
  - b) Betroth
  - c) Inundate
  - d) Martinet

### Grammar

2. I \_\_\_\_\_ tennis every Sunday morning.
- a) playing
  - b) play
  - c) am playing
  - d) am play

### From Text

3. How were Quaid's feelings even though he drove through the unceasing shouts of People?
- a) Gay and Gaiety
  - b) Calm and serene
  - c) Quite happy
  - d) Quite gloomy
4. Who wrote the novel "The Prisoner of Zenda"?
- a) Shakespeare
  - b) Words Worth
  - c) Anthony Hope
  - d) John Milton

### Sentence Correction

5. Jeans was not permitted in out college.
- a) were
  - b) had
  - c) will
  - d) have

## Part II Physics

1. The product of mass and velocity is called:

- a) Acceleration
- b) Moment Arm
- c) Negative Accelerations
- d) Momentum

2. The production of X-Rays can be regarded as an inverse of:

- a) Electromagnetic effect
- b) Photoelectric effect
- c) Compton's effect
- d) Photon effect

## Part III Mathematics

1. If  $\sqrt{\sqrt{\cos\phi} \sqrt{\cos\phi} \sqrt{\cos\phi}} \dots\dots\dots = 1$ , then  $\phi =$

- a)  $n\pi/2$
- b)  $2n\pi$
- c)  $n\pi$
- d)  $2n\pi/3$

2. If  $y = f(x)$ , then  $\frac{dy}{dx}$  is defined as \_\_\_\_\_

a)  $\frac{dy}{dx} = \frac{f(x+\delta x) - f(x)}{\delta x}$

$\lim_{\delta x \rightarrow 0}$

b)  $\frac{dy}{dx} = \frac{f(x-\delta x) - f(x)}{\delta x}$

$\lim_{\delta x \rightarrow 0}$

c)  $\frac{dy}{dx} = \frac{f(x-\delta x) + f(x)}{\delta x}$

$\lim_{\delta x \rightarrow 0}$

d)  $\frac{dy}{dx} = \frac{f(x+\delta x) + f(x)}{\delta x}$

$\lim_{\delta x \rightarrow 0}$

## Biology

1. **Presence of one of the followings made evolution of respiration possible.**
  - a) Carbon dioxide
  - b) Oxygen
  - c) Nitrogen
  - d) Inert gasses
  
2. **If non-protein part is covalently bonded, it is known as:**
  - a) Co-enzyme
  - b) Activation
  - c) Prosthetic group
  - d) Product

## Part IV Chemistry

- a. **The Chemistry of Carbon is Called:**
  - i. Organic Chemistry
  - ii. Inorganic Chemistry
  - iii. Physical Chemistry
  - iv. Pharmaceutical Chemistry
  
- b. **How many moles of Sulphur are there in 64 grams of the element?**
  - i. 1
  - ii. 2
  - iii. 3
  - iv. 4

## Computer Science

1. **Keyboard is a:**
  - a) Input device
  - b) Output device
  - c) Important device
  - d) Plastic device
  
2. **Personal Computer consist of:**
  - a) Central Processing Unit
  - b) Input
  - c) Output
  - d) All of the above

-----GOOD LUCK-----



**Undergraduate Program (22-Batch)**

All the candidates who have qualified the Pre-admission Test of this University, are hereby advised in their own interest to **read the following INSTRUCTIONS very carefully**. Those having their names appear in the Interview Call List / First Provisional Merit List should also note down the schedule for their personal appearance to submit their original documents, interview and admission.

1. Merit-wise **Data Record** (Provisional General Merit List) of all the candidates has been displayed on the website of the Directorate of Admissions ([admissions.muett.edu.pk](http://admissions.muett.edu.pk)) on **30-10-2022**. If any of the candidates wants to make **corrections(s)** in his / her Data Record; he / she may contact Admissions Office on or before **03-11-2022 up to 3:00 p.m.**
2. The Interview Call Lists / First Provisional Merit List for each category under Regular and Self-Finance Schemes will be notified on **November 05, 2022** and displayed on the University website(s) ([admissions.muett.edu.pk](http://admissions.muett.edu.pk); [muett.edu.pk](http://muett.edu.pk)).
3. Each candidate would then be required to appear before the Admission Committee for an interview on specific date and time as per schedule to choose the discipline from the available seats in their respective category. The interviews shall be conducted from **07-11-2022** at Mehran UET, Jamshoro (District-wise schedule shall be displayed on the University website). **Each candidate according to the order of Interview Call List should personally report for an interview along with a parent / a guardian (Please note that only one parent / guardian will be allowed to enter the premises with the candidate due to COVID-19 SOPs).**
4. All the candidates must bring **ALL** the following **ORIGINAL** documents (including previous and improved/changed group marks certificates, if available) along with photocopies of the documents as mentioned on the date and time according to the schedule. Candidate should come prepared to choose the discipline. No candidate in any circumstances will be entertained with short of the any of the following documents:

a)	<b>S.S.C. or Equivalent Mark Certificate</b>	<b><u>Original – (to be retained)</u> and one attested photocopy</b>
b)	<b>H.S.C. or Equivalent Mark Certificate</b>	<b><u>Original – (to be retained)</u> and one attested photocopy</b>
c)	<b>IBCC Equivalent Certificate</b> (For foreign examinations)	<b><u>Original – (to be retained)</u> and one attested photocopy</b>
d)	<b>Domicile Certificate of Candidate</b>	<b><u>Original – (to be retained)</u> and one attested photocopy</b>
e)	<b>PRC (Form C) of Candidate</b>	<b><u>Original – (to be retained)</u> and one attested photocopy</b>
f)	<b>CNIC / B. Form</b>	<b><u>Original</u> and one attested photocopy</b>
g)	<b>Affidavit and Physical Fitness Certificate*</b>	<b><u>Original – (to be retained)</u></b>
h)	<b>Hifz-e-Quran Sanad</b> (for Hafiz)	<b><u>Original – (to be retained)</u> and one attested photocopy</b>

\* The specimen of the Affidavit and Physical Fitness Certificate proformas can be downloaded from Admissions Website.

5. If any of the candidates is unable to attend the interview in case of **exceptional circumstances e.g., being COVID-19 positive** should contact the Directorate of Admissions at least 24 hours prior to his / her interview date. He/she will be required to present the proof of his absence i.e., result of COVID-19 test. The candidate if allowed, must authorize (authority letter) any one of his parents / guardians to appear and carryout all decisions / formalities in the interview on his / her behalf. The authority letter must contain specimen signature of the candidate and a copy of CNIC.

6. All the candidates/parents shall bear in mind that they are appearing in the interview with their own consent and they are expected to follow the SOPs while traveling to / from the university, during interview, and after they leave the university premises.
7. **All the candidates must comply with the following COVID-19 SOPs:**
- All the candidates and parents should get their hand sanitized at the entryways of the interview venue.
  - Face mask is mandatory for the all the candidates, parents, faculty and staff.
  - The candidates, parents, faculty and staff are required to carry their own mask and pocket-sized hand sanitizers.
  - The candidates, parents, faculty and staff are required to maintain social distancing protocols (at least 6 feet) distance from each other and avoid handshaking, physical contact, spitting and touching faces.
  - The temperature of the candidates, parents, faculty and staff will be checked with an infrared thermal gun/gadget before entering interview hall / venue.
  - All the candidates, parents, faculty and staff who have symptoms of COVID-19 are required to undergo the COVID-19 test.
  - An ambulance will be available during interviews to transfer the COVID-19 positive cases to the nearby hospital.
  - Maximum 140 candidates will be allowed during the conduct of interviews.
  - Failure to comply these SOPs will lead to disciplinary action.
  - All the candidates / guardians are strictly advised to follow COVID-19 SOPs issued by the Health Departments, Govt. of Sindh / Pakistan from time to time.
8. If any of the candidates reports after his / her scheduled final reporting time, University authority may consider him / her for admission on merit against leftover seats under respective category at the end of the day.
9. If any of the candidate does not report on his / her scheduled day, the University authority may consider him / her for admission on merit against leftover seats in subsequent lists of respective categories.
10. The candidates who do not appear for interview on the specified schedule dates for any category shall not be considered for admission and his / her name shall be deleted from the Merit List.
11. All candidates should bring **CASH (Payment shall be made on spot)** to deposit the following fees (whichever applicable) on the day of interview:

<b>Discipline</b>	<b>BS Programs*</b>
<b>Fee</b>	<b>Rs. 65,500/-</b>

\* Library fee amounting to Rs. 300 is also included in the total fee at the time of admission.

**Note:** For the purpose of reference the printed documents related to admission (e.g., Prospectus, Merit List, and Admission Schedule etc.) shall be quoted in case of any objections / claims. No telephonic or personal statements shall be considered relevant in any of such claims. The University will not be responsible for COVID-19 infection to any of the candidates / parents / guardians appear in the interview.

### **Director Admissions**

Contact: 022 2771704

Email: [admissions@admin.muett.edu.pk](mailto:admissions@admin.muett.edu.pk)



