



THE BENAZIR BHUTTO SHAHEED
UNIVERSITY OF TECHNOLOGY AND SKILL DEVELOPMENT
KHAIRPUR MIRS, SINDH, PAKISTAN
INNOVATION ● SKILLS ● EXCELLENCE



PROSPECTUS

2026-27



BACHELOR OF ENGINEERING TECHNOLOGY



Civil Technology



Electrical Technology



Electronics Technology



Mechanical Technology



Robotics & AI Technology



BACHELOR OF SCIENCE PROGRAMS



Computer Science



Artificial Intelligence



English



Physics

For More Information



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The Benazir Bhutto Shaheed
University of Technology and Skill
Development Khairpur Mirs



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MESSAGE FROM THE VICE CHANCELLOR



Prof. (Meritorious) Dr. Rasool Bux Mahar

Vice Chancellor

BBS-UTECH, Khairpur Mirs

It is my great pleasure to welcome you to **Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTECH), Khairpur Mirs**, the first public sector Technology University of Sindh, established with the vision of promoting excellence in technology, engineering, and skill-based education.

At BBS-UTECH, we are committed to developing competent professionals through quality education, practical training, innovation, and research. Our academic programs are designed in accordance with national and international standards to equip students with the knowledge, technical expertise, and professional competencies required to meet the evolving demands of industry and society.

The University provides a vibrant academic environment supported by highly qualified faculty, including foreign-qualified academicians, state-of-the-art laboratories, modern teaching facilities, and strong academic and industrial collaborations with renowned national and international institutions. As part of our commitment to internationalization, BBS-UTECH has established student exchange programs in collaboration with **Yunnan Communication Vocational and Technical College (YCYCT), China**, and the **Hebei Institute of Mechanical and Electrical Technology (HIMET), China**. These partnerships provide third-year students with valuable opportunities for international academic exposure, cross-cultural learning, advanced technical training, and professional development, preparing them to succeed in the global workforce. Recognizing that access to quality education should be available to all deserving students, the University offers a wide range of merit- and need-based scholarships in collaboration with federal and provincial funding agencies. To further enrich the learning experience, BBS-UTECH regularly organizes conferences, seminars, workshops, and research activities that foster innovation, critical thinking, and lifelong learning. The University also provides modern campus facilities, including separate hostel accommodation for male and female students, transport services, and a secure, student-centered learning environment that supports academic and personal growth.

I warmly invite aspiring students to join BBS-UTECH and become part of an institution dedicated to academic excellence, technological advancement, and professional development. Together, let us build a future driven by knowledge, innovation, and skilled human capital, contributing to the sustainable socio-economic development of Pakistan.

MESSAGE FROM THE DEAN (FACULTY OF ENGINEERING TECHNOLOGY AND BS PROGRAMS)



Prof. Dr. Manthar Ali Keerio

Dean Faculty of Engineering Technology.
BBS-UTECH, Khairpur Mirs

Dear students, faculty members, and esteemed visitors,

Welcome to the Faculty of Technology The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs, Sindh.

As the Dean of the faculty, it is my utmost pleasure to extend a warm welcome to all of you. We provide comprehensive and exceptional educational experience in the field of technology & science. Our faculty comprises a team of distinguished professors, experienced researchers, and dedicated support staff who are committed to nurturing talent, fostering innovation, and promoting excellence in teaching and research.

We provide state-of-the-art facilities, well-equipped labs, and access to the latest technological resources to facilitate hands-on learning and practical application of theoretical concepts.

Additionally, we emphasize a student-justified approach, focusing on individual growth, personal development, and holistic education.

We encourage students to engage in co-curricular activities, internships, and industry collaborations to gain real-world experience and enhance their professional competencies.

As Dean, I am here to support and guide you throughout your academic journey. My aim is to create an inclusive and vibrant learning environment that encourages intellectual curiosity, critical thinking, and lifelong learning. I encourage you to take full advantage of the opportunities available at our faculty, participate actively in academic and research endeavors, and embrace the challenges that lie ahead.

I invite you to explore our website to learn more about our programs, faculty members, research initiatives, and student achievements. Whether you are a prospective student, a current student, a faculty member, or an industry partner, we are here to provide you with the knowledge, skills, and resources necessary for success in the dynamic field of technology.

Once again, I extend my warmest welcome to you all. Together, let us embark on a transformative educational journey that will shape the future of technology and empower us to make a positive impact in the world.



VISION

“To lead global science, humanities, and technological education aiming at market-driven employable and entrepreneurial skills to empower community.”.

MISSION

The mission of BBS-UTECH Khairpur Mirs is to empower community with hands-on technological knowledge through high-quality teaching and research environment, innovative tools and techniques and entrepreneurial and global leadership skills with the consciousness of ethical norms and values. BBS-UTECH is also committed to achieve academic excellence in science & humanities fields with its rigorous academic programs and advanced infrastructure.

AIM & OBJECTIVES

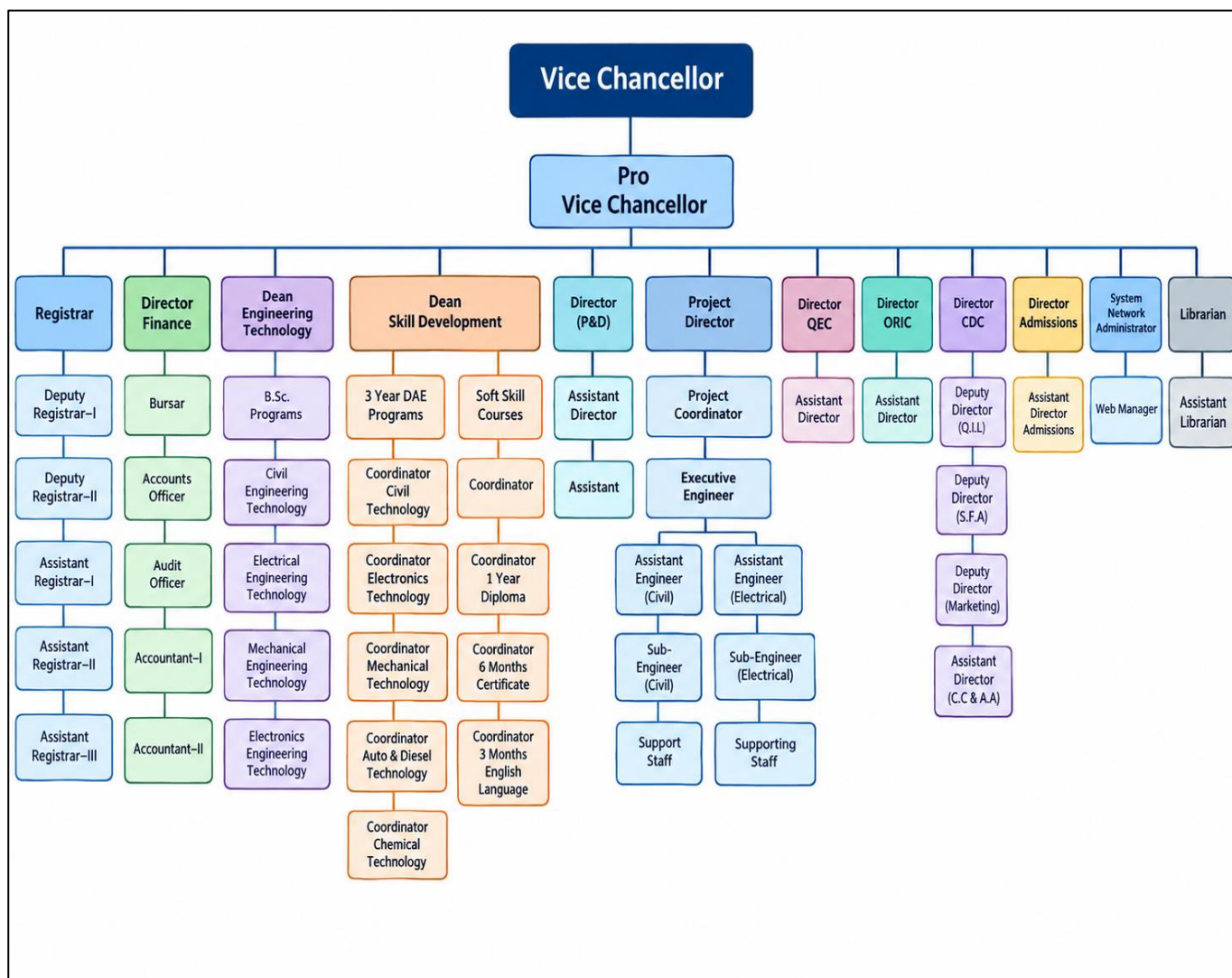
The main aim of the University is to produce high-quality technology graduates equipped with practical hands-on experience needed to serve the community. The specific objectives of the University are:

To produce skilled personnel to eradicate poverty and uplift the morale of the community

To provide technical knowledge to the graduates with the state-of-the-art practical skills required for market commercialization

- To produce the skilled personnel to eradicate poverty and uplift the morale of the community.
- To provide technical knowledge to the graduates with the state of the art practical skills required for market commercialization.
- To equip graduates with technical entrepreneurial skills
- To produce workforce with global market employability.
- To embed latest market-driven skills needed to uplift the society.
- To produce skilled workers conscious of ethical norms & cultural values

UNIVERSITY ORGANOGRAM



ACADEMIC CALENDAR -2026-27

ACADEMIC CALENDAR -2026-27								
ACADEMIC AND EXAMINATION SCHEDULE FOR BATCH SEMESTER SYSTEM								
Duration of a Semester		Two Semester Duration:				No of Weeks		
Teaching (Including Mid Semester Exam.)	16 weeks	21	X	2	=	42 Weeks		
Final Exam Preparation	02 week	Summer Vacation or Summer Course**				08 Weeks		
Final Exam Conduct.	03 weeks	Winter Vacation*				02 Weeks		
Total:	21 weeks	Total:				52 weeks		
Minimum attendance requirement to appear in examination is 75%								
Minimum number of lectures during the semester in a theory of 3CH shall be 42.								
Minimum number of lectures during the semester in a Practical of 1CH shall be 42.								
Tentative Academic Calendar for the year 2026-2027 under Semester System								
Batch & Semester	22-Batch	23-Batch		24-Batch		25-Batch		26-Batch
	Semester	Semester		Semester		Semester		Semester
	8th	6th	7th	4th	5th	2nd	3rd	1st
Date of Start of Classes	27/07/2026	27/07/2026	4/1/2027	27/07/2026	4/1/2027	27/07/2026	4/1/2027	4/1/2027
Conduct of Mid-Semester Examinations	Industrial Field Training	14/09/2026	22/02/2026	14/09/2026	22/02/2026	14/09/2026	22/02/2026	22/02/2026
Date of Suspension of Classes		16/11/2026	26/04/2026	16/11/2026	26/04/2026	16/11/2026	26/04/2026	26/04/2026
Display of Sessional Marks		19/11/2026	02/05/2026	19/11/2026	02/05/2026	19/11/2026	02/05/2026	02/05/2026
Conduct of Final Semester Examination	30/11/2026	30/11/2026	10/05/2026	30/11/2026	10/05/2026	30/11/2026	10/05/2026	10/05/2026
Announcement of Result (Expected)	20/01/2027	20/01/2027	02/07/2026	20/01/2027	02/07/2026	20/01/2027	02/07/2026	02/07/2026
* Winter Vacations will start from 21/12/2026 to 03/01/2027								
** Summer Vacations will Strat from 31st May 2027 to 25th July 2027								



UNIVERSITY AT GLANCE

Brief History

Following the creation of Pakistan in 1947, only a few technical institutions were established across the country. Recognizing the growing need for skilled technical manpower to support industrial and economic development, the Government of Pakistan established the Council of Technical Education. In June 1948, the Council constituted a committee of technical experts to survey existing technical institutions, assess industrial requirements, evaluate the demand for technical professionals, and recommend measures for strengthening technical education. Based on the committee's recommendations, a scheme for establishing polytechnic institutes was approved by the Council in September 1950.

The institution was originally established as the Sir Ali Murad Technical Institute. In 1962, it was upgraded by the Government of West Pakistan to the status of a Polytechnic Institute. Recognizing its continued academic growth and contribution to technical education, the institute was further upgraded in 1974 as the Government College of Technology, Khairpur, with the introduction of Bachelor of Technology (B.Tech.) degree programs

In 2016, the Government of Sindh elevated the institution to the Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTSD), Khairpur Mirs. Today, the University is a premier public-sector institution committed to excellence in technology, engineering, and skill development, offering Bachelor of Engineering Technology (B.E. Technology), Bachelor of Science (BS), and Diploma of Associate Engineering (DAE) programs to prepare graduates for the evolving demands of industry and society.

Introduction

The importance of technology education has grown significantly in the modern era, particularly following the industrial and digital revolutions. Sustainable economic growth depends on a skilled and educated workforce capable of driving innovation, industrial development, agricultural advancement, and the expansion of the service sector. The technical workforce consists of Engineers, Engineering Technologists, and Technicians, each playing a vital role in the nation's development. Among them, Engineering Technologists serve as a crucial link between engineers and technicians by applying engineering principles in the operation, maintenance, implementation, and management of technological systems.

Engineering and Technology Universities produce Engineers and Engineering Technologists, while Colleges of Technology and Polytechnics prepare Associate Engineers through Diploma of Associate Engineering (DAE) programs. Recognizing the increasing demand for qualified Engineering Technologists and the need to provide higher education opportunities for DAE graduates, the Government of Sindh established the ****Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTSD), Khairpur Mirs**** in 2016 as the province's First University of Technology.

The University is committed to producing competent, industry-ready graduates through quality education, practical training, and research. Its academic programs are based on curricula developed and approved by the ****National Technology Council (NTC), Islamabad****, ensuring that graduates possess the knowledge, skills, and professional competencies required to meet national and international industry standards.

LOCATION

The Benazir Bhutto Shaheed University of Technology and Skill Development Khairpur Mirs is located near Civil Hospital, is one kilometer from Railway Station and is spread over 60 Acres of land.

INFRA STRUCTURE

- **Administrative Block** – Registrar Office, Examinations Office, Directorate of Admissions, and Project Directorate.
- **Academic Block** – Departments of Civil Engineering Technology, Electrical Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, Robotics and Artificial Intelligence, Computer Science, Artificial Intelligence, English and Physics Science,
- Central Mosque
- Auditorium Hall
- Convocation Hall
- Sports Grounds and Recreational Facilities
- Residential Colony for Faculty and Staff.
- Student Hostels for Male and Female Students.





OFFICERS LIST OF THE UNIVERSITY

Name & Designation	Position
Prof. Dr. Rasool Bux Mahar	Vice Chancellor
Prof. Dr. Manthar Ali Keerio	Dean (Acting), Faculty of Engineering Technology / Dean, Faculty of Skill Development
Engr. Mir Sajjad Hussin Talpur	Registrar & Director of Planning and Development
Dr. Imdadullah Thaheem	Chairperson, Department of Mechanical Engineering Technology
Prof. Dr. Aftab Ahmed Soomro	Dean (Acting), Faculty of Skill Development
Mr. Kashif Raza Rind	Director Finance
Syed Ali Raza Shah	Chief Accountant / Bursar
Engr. Imdad Ali Siyal	Director (Works & Services)
Dr. Asim Ali Abro	Advisor of Vice Chancellor on Quality Enhancement Cell (QEC) & Focal Person, Affiliated Colleges
Mr. Ghulam Abbas Junejo	Director, Office of Research, Innovation and Commercialization (ORIC)
Mr. Riaz Ahmed Arain	Director of Admissions (Acting)
Engr. Abdul Shakoor Shaikh	Advisor of Vice Chancellor on Students' Financial Aid Office
Mr. Waqar Ali Narejo	Database and Network Administrator
Engr. Asmatullah Memon	Advisor of Vice Chancellor on Industry-Academia Linkages / Sports
Mr. Naveed Hussain Abro	Librarian
Mr. Ghulam Abbas Junejo	In-charge Director, Marketing & Outreach
Engr. Samiullah Pathan	Transport Officer
Mr. Ali Imran Jalbani	Purchase & Procurement Officer
Syed Ali Taqi Shah	Audit Officer
Mr. Bahram Chandio	Deputy Registrar (HR/Establishment)
Mr. Sajjad Hussain Lashari	Warden, Boys Hostel
Ms. Zareen Memon	Warden, Girls Hostel
Engr. Muhammad Abubakar Shaikh	In-charge Chairperson, Department of Civil Engineering Technology



Engr. Safdar Ali Abro	In-charge Chairperson, Department of Electrical Engineering Technology
Dr. Muhammad Saleem Memon	In-charge Chairperson, Department of Electronics Engineering Technology
Dr. Asad Hameed Soomro	In-charge Chairperson, Department of Electronics Engineering Technology
Syed Asim Ali Shah	In-charge Chairperson, Department of English
Dr. Mushtaq Ahmed Memon	In-charge Chairperson, Department of Basic Sciences and Related Studies
Ms. Zareen Arsalan	Deputy Controller of Examinations
Mr. Irfan Ali Memon	Assistant Director, Alumni Affairs
Ms. Sarah Shoukat	Assistant Director Admission



UNDERGRADUATE PROGRAMMES BEING OFFERED

The University is presently offering Four-year Bachelor of Science and Bachelor of Engineering Technology in the following technologies;

Bachelor of Engineering Technology (B.E.Tech) Programs

1. Civil Engineering Technology
2. Electrical Engineering Technology
3. Electronics Engineering Technology
4. Mechanical Engineering Technology
5. Robotics & AI Engineering Technology

Bachelor of Science (BS) Programs

1. BS Computer Science
2. BS Artificial Intelligence
3. BS English
4. BS Physics

DEPARTMENT OF CIVIL ENGINEERING TECHNOLOGY

Vision

To be recognized globally as a center of excellence, which offers high quality education, technological knowledge and outreach activities with innovation and creativity in the field of Civil Engineering Technology.

Mission

To provide quality engineering technological education and produce leaders in the field of Civil Engineering Technology having technical, social and ethical sense of responsibilities to serve worldwide.

Program Educational Objectives (PEOs) and Mapping With Program Learning Objectives (Plos)

PEO-1 Graduates apply advanced technological knowledge and hands-on skills to contribute effectively to the civil engineering technology sector while upholding ethical and professional standards.

PEO-2 Graduates apply advanced technological knowledge and hands-on skills to contribute effectively to the civil engineering technology sector while upholding ethical and professional standards.

PEO-3 Graduates demonstrate leadership, entrepreneurial mindset, and adaptability in diverse civil engineering technology projects, fostering teamwork and efficient project management

PLOs	PEO 1	PEO 2	PEO 3
PLO 1: Engineering Technology Knowledge (SA1)	X	-	-
PLO 2: Problem Analysis (SA2)	-	X	-
PLO 3: Design/Development of Solutions (SA3)	-	X	-
PLO 4: Investigation (SA4)	-	X	-
PLO 5: Modern Tool Usage (SA5)	-	X	-
PLO 6: The Engineering Technologist and Society (SA6)	X	-	-
PLO 7: Environment and Sustainability (SA7)	-	X	-
PLO 8: Ethics (SA8)	X	-	-
PLO 9: Individual and Team Work (SA9)	-	-	X
PLO 10: Communication (SA10)	-	-	X
PLO 11: Project Management (SA11)	-	-	X
PLO 12: Life Learning (SA12)	-	-	X

Brief Introduction

The Department of Civil Engineering Technology offers a four- year Bachelor of Engineering Technology program, a two-year Master of Science in Civil Engineering Technology program, a three-year Diploma of Associate Engineer in Civil Technology program, and short courses in various skill trades.

The Bachelor of Engineering Technology (Civil) program is primarily designed in such a way that it deals with essential advances in engineering technology education according to the cutting-edge requirements of the field. It comprises eight (08) semesters. During the first seven (07) semesters, the students acquire the necessary coursework for the completion of the degree program, whereas the 8th semester leads to supervised industrial training, which enhances the technical skills of students in the field.

After the successful completion of the degree program, the graduates of CET will be able to serve in sectors such as construction, cement industries, buildings, structures, highways, railways, airports, irrigation and hydraulic structures, water supply and wastewater disposal, and construction management. Moreover, the

department is committed to producing technologists for the mega projects in the country like the China-Pakistan Economic Corridor (CPEC).

Being the oldest and most wide-ranging discipline in the world, the Department of Civil Engineering Technology is one of the leading departments of the University. All the classrooms and laboratories of the department are well-ventilated, electrified, and equipped with the latest essentials required for study. The department is also privileged to have the services of well-experienced and highly qualified faculty members.

Moreover, five batches of the Bachelor of Engi CET program have graduated. The National Technology Council (NTC) has accredited all the graduated batches. The program has also been approved by the Higher Education Commission (HEC) of Pakistan.

Laboratories

The department of Civil Engineering Technology has following laboratories. All the laboratories are well equipped with advanced and conventional testing equipment.

1. Surveying Laboratory
2. Soil & Highway Laboratory
3. Structures & Concrete Laboratory
4. Fluid Mechanics & Hydraulics Laboratory
5. Environmental Engineering Laboratory
6. Engineering Drawing & Drafting Hall
7. Computer and Simulation Laboratory (Shared)
8. Physics Laboratory (Shared)



Surveying Laboratory



Soil Mechanics Laboratory



Transportation Engineering Technology



Environmental Engineering Laboratory



**Fluid Mechanics & Hydraulics
Laboratory**



Concrete Technology Laboratory

Major Developments:

In our continuous pursuit of academic excellence, the Department of Civil Engineering has officially shifted from our old building to a new building. Designed with a student-first approach, this new space features spacious, well-ventilated lecture halls equipped with multimedia systems for maximum learning comfort and interactive teaching. Beyond the classrooms, it houses high-tech engineering laboratories for hands-on research and practical

experimentation, alongside all basic amenities. By seamlessly bridging advanced technology with a premium learning environment, this landmark move creates an inspiring, collaborative space where future engineering leaders can innovate, practice, and thrive



Lab of New Building



Front Elevation of New Building



Lab of New Building



Corridor of New Building

Industry Exposure

We produce highly skilled technologists who excel in practical execution. We bridge the gap between technical concepts and real-world implementation through three core initiatives:

Field Visits

Every semester, students step onto active major infrastructure sites—such as highways, high-rises, and hydraulic systems. These visits allow them to analyze real-time construction methodologies, machinery operations, and site management firsthand.



**Asia Pacific Shelter and Settlements
Forum 2026 at Karachi**



**Waste Management Facilities at Gambat Institute of
Medical Sciences (GIMS)**

Survey Camp

To give students essential field exposure, the department organizes an intensive, hands-on multi-day Surveying Camp designed to build practical engineering skills. During this outdoor training, students master modern, industry-standard equipment including Total Stations, Theodolites, and GPS. Working under real field conditions, they learn how to execute major engineering tasks such as preparing building layouts, performing detailed contouring, and mapping terrain. This immersive experience ensures our graduates have the practical skills and confidence required to handle real-world challenges on any construction site.



HUB Dam Project



6th International Students Convention and Expo (6th ISC) in Islamabad

Supervised Industrial Training (SIT)

The entire final semester is a 16-week full-time internship with leading construction firms and public departments. Final-year technologists independently handle site supervision, quality control, and project execution, graduating 100% field-ready.

Departmental Achievements:

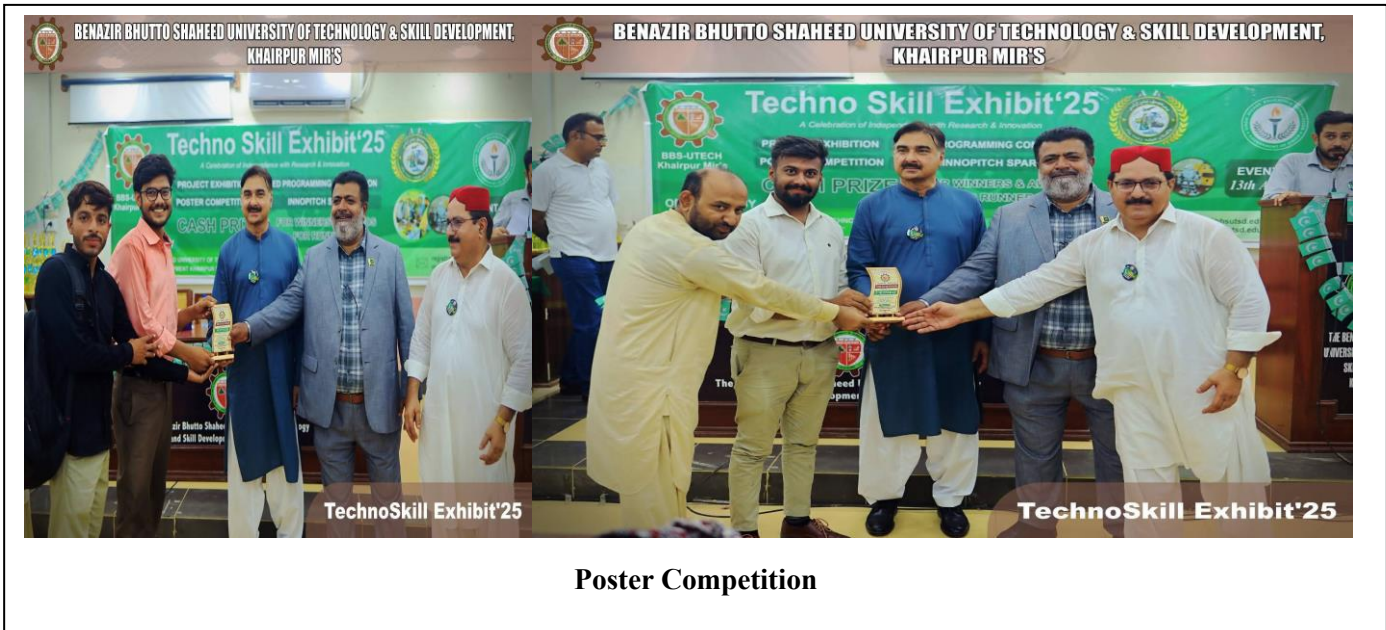
Our technologists consistently demonstrate their competitive edge through practical innovation, high market demand, and global academic progression.

Tech-Competitions Wins

Over the past year alone, our student technologists have excelled beyond the classroom, consistently sweeping top honors at prestigious national and international technical exhibitions:

Techno Skill Exhibit '25 (BBS-UTECH):

Celebrating innovation and collaboration under the Marka-e-Haq campaign for Pakistan's 78th Independence Day, our talented students completely swept the top spots at the major two-day Techno Skill Exhibit '25 (BBS-UTECH). Showcasing incredible creativity and hard work, they proudly secured **1st Position in the Project Competition** alongside a phenomenal double victory of **1st and 2nd Position in the Poster Competition**.



Poster Competition



Project Competition

Our practical, technology-driven curriculum ensures our graduates hit the ground running. Today, over 70% of our alumni are successfully placed in key public and private sector roles immediately after graduation, driving infrastructure development across the region. This exceptional placement rate reflects our strong focus on advanced laboratory training, field excellence, and modern engineering tools, making our graduates immediate assets to any project team.

Faculty Of Civil Engineering Technology

S. No.	Name with Qualification	Designation
1	Prof. Dr. Rasool Bux Mahar B.E (MUET), M.E (MUET), PhD (CHINA)	Professor & Vice Chancellor
2	Prof. Dr. Manthar Ali Keerio B.E (QUEST), M.E (MUET), PhD (QUEST)	Professor & Dean FoET
3	Engr. Muhammad Abubakar Shaikh B.E (MUET), M.E (NED), PhD (In Progress)	Assistant Professor / Chairperson
4	Dr. Sadam Hussain Jakhrani B.E (QUEST), M.E (QUEST), PhD (Hanyang University, South Korea)	Associate Professor / Director Postgraduate Studies
5	Engr. Shamotra Jai B.E (QUEST), M.E (USPCASW-MUET), PhD (In Progress)	Assistant Professor (On Study Leave)
6	Dr. Asim Ali Abro B.E (QUEST), M.E (China), PhD (USPCAS-W, MUET)	Assistant Professor / Director, QEC
7	Engr. Jawad Akhter Siddiqui B.E (MUET), M.E (MUET)	Lecturer (On Study Leave)
8	Engr. Arun Kumar B.E (MUET), M.E (MUET)	Lecturer
9	Engr. Jabir Ali Keerio B.E (QUEST), M.E (MUET)	Lecturer
10	Engr. Akhter Ali Sargani B.E (QUEST), M.E (MUET)	Lecturer (On Study Leave)

Scheme of the Study

1st Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	HUM-111/HUM-114	Islamic Studies / Social Ethics	Art & Humanities	2	0	2	0	50	0
2	HUM-112	Functional English	Art & Humanities	3	0	3	0	100	0
3	HUM-113	Pakistan Studies	Art & Humanities	2	0	2	0	50	0
4	MTH-110	Basic Mathematics	Deficiency Course for	3	0	3	0	100	0
5	CET-111	Materials and Methods of Construction	Civil Engineering Technology Foundation	3	1	3	3	100	50
6	CET-112	Surveying	Civil Engineering Technology Foundation	2	2	2	6	50	100
Total				12	3	12	9	450	150
Grand Total				15		21		600	

2nd Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	COM-121	Introduction to Computer Programming	Computing	1	2	1	6	50	100
2	HUM-121	Communication Skills	Art & Humanities	3	0	3	0	100	0
3	HUM-122/HUM-123	Fehm-e-Quran-I / Civics and Community Engagement-I	Art & Humanities	0	1	0	3	0	50
4	NSC-122	Applied Mathematics-I	Natural Sciences	3	0	3	0	100	0
5	NSC-123	Applied Physics	Natural Sciences	2	1	2	3	50	50
6	CET-121	Concrete Technology	Civil Engineering Technology Foundation	2	1	2	3	50	50
7	CET-122	Evolution of Architecture and Engineering	Civil Engineering Technology Foundation	2	0	2	0	50	0
Total				13	4	13	12	400	250
Grand Total				18		28		650	

3rd Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
	HUM-211	Professional Ethics	Art & Humanities	2	0	2	0	50	0
	HUM-212 / HUM-213	Fehm-e-Quran-II / Civics and Community Engagement-II		0	1	0	3	0	50
	NSC-212	Applied Mathematics-II	Natural Sciences	3	0	3	0	100	0
	CET-211	Environmental Technology	Civil Engineering Technology Foundation	2	1	2	3	50	50
	CET-212	Fluid Mechanics	Civil Engineering Technology Foundation	2	1	2	3	50	50
	CET-213	Mechanics of Solids	Civil Engineering Technology Foundation	2	1	2	3	50	50
	CET-214	Civil Engineering Drawing, Drafting and Interpretation	Civil Engineering Technology Foundation	1	2	1	6	50	100
Total				12	5	12	15	350	300
Grand Total				18		30		650	

4th Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/W week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	NSC-221	Fundamentals of Applied Economics	Natural Sciences	3	0	3	0	100	0
2	HUM-221	Human Skills	Art & Humanities	2	0	2	0	50	0
3	HUM-222	Technical & Scientific Writing	Art & Humanities	3	0	3	0	100	0
4	CET-221	Transportation and Highway Technology	Civil Engineering Technology Breadth	2	1	2	3	50	50
5	CET-222	Soil Mechanics	Civil Engineering Technology Foundation	1	2	1	6	50	100
6	CET-223	Structural Principles	Civil Engineering Technology Breadth	2	0	2	0	50	0
7	CET-224	Construction Safety Management	Civil Engineering Technology Breadth	1	1	1	3	50	50
Total				14	4	14	12	450	200
Grand Total				18		26		650	

5th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CET-311	Hydrology	Civil Engineering Technology Depth	1	1	1	3	50	50
2	CET-312	Reinforced and Pre-stressed Concrete	Civil Engineering Technology Depth	2	1	2	3	50	50
3	CET-313	Construction Equipment and Jobsite Practices	Civil Engineering Technology Breadth	2	1	2	3	50	50
4	CET-314	Computer Aided Drawing and Building Information Modelling	Civil Engineering Technology Depth	1	2	1	6	50	100
5	CET-315	Geotechnical Site Investigation and Foundations	Civil Engineering Technology Depth	1	1	1	3	50	50
6	CET-316	Basic Electro-Mechanical Technology	Civil Engineering Technology Breadth	2	1	2	3	50	50
Total				9	7	9	21	300	350
Grand Total				16		30		650	

6th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CET-321	Irrigation Technology	Civil Engineering Technology Depth	2	1	2	1	50	50
2	CET-322	Construction of Steel Structures	Civil Engineering Technology Depth	2	1	2	3	50	50
3	CET-323	Quantity Surveying and Estimation	Civil Engineering Technology Depth	1	2	1	6	50	100
4	CET-324	Maintenance and Repair of Civil Works	Civil Engineering Technology Breadth	1	1	1	3	50	50
5	MGM-321	Technopreneur ship	Management Science	2	0	2	0	50	0
6	CET-325	Project Part-I	Civil Engineering Technology Depth	0	3	0	9	0	100
Total				8	8	8	22	250	350
Grand Total				16		30		600	



7th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/ Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CET-411	GIS and Remote Sensing	Civil Engineering Technology Breadth	2	1	2	3	50	50
2	CET-412	Ground Improvement Techniques	Civil Engineering Technology Depth	2	1	2	3	50	50
3	CET-413	Construction Project Administration	Civil Engineering Technology Breadth	2	1	2	3	50	50
4	CET-414	Water Supply Systems	Civil Engineering Technology Depth	2	1	2	3	50	50
5	CET-415	Project Part -II	Civil Engineering Technology Depth	0	3	0	9	0	100
Total				8	7	8	21	200	300
Grand Total				15		29		500	

8th Semester									
Sr. No	Course Code	Course Title	Nature	Credit Hours		Contact Hours / Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CET-421	Supervised Industrial Training (16 Weeks Training) 8x5 = 40 Contact Hrs/Week	Major-based Depth	0	16	0	40	00	800
Total				0	16	0	40	00	800
Total (2nd Semester-4th Year)				16		40		800	
Total (4th Year)				32		66		1300	
Grand Total (1st Year to 4th Year)				132		236		5100	

DEPARTMENT OF ELECTRICAL ENGINEERING TECHNOLOGY

Electrical Engineering Technology (EET) is an applied engineering discipline that focuses on the practical implementation of electrical engineering principles. It encompasses the design, application, installation, manufacturing, operation, testing, and maintenance of electrical and electronic systems. Unlike traditional Electrical Engineering, which primarily emphasizes theoretical analysis and conceptual design, Electrical Engineering Technology places greater emphasis on practical applications, applied design, implementation, and hands-on problem-solving.

Electrical Engineering Technology is one of the largest branches of engineering technology and covers a wide range of specialized areas, including power systems, electronics, telecommunications, industrial automation, control systems, and renewable energy technologies.

Graduates of the Electrical Engineering Technology program possess the technical knowledge and practical skills required to work in various public and private sector organizations. Career opportunities are available in organizations such as:

- Civil Aviation Authority (CAA)
- Water and Power Development Authority (WAPDA)
- Oil and Gas Development Company Limited (OGDCL)
- National Transmission and Dispatch Company (NTDC)
- Pakistan Atomic Energy Commission (PAEC)
- Military Engineering Services (MES)
- Power generation, transmission, and distribution companies
- Manufacturing industries
- Industrial automation and control sectors
- Telecommunications companies
- Renewable energy industries
- Various private-sector organizations



The Electrical Engineering Technology program offered by the Department of Electrical Engineering Technology is accredited by the National Technology Council (NTC) and recognized by the Higher Education Commission (HEC), ensuring compliance with national standards of technical education and professional practice.

Laboratories

To support practical learning and hands-on training, the Department of Electrical Engineering Technology is equipped with the following dedicated laboratories:

- Power Systems Laboratory
- Electrical Machines Laboratory
- Applied Electricity Laboratory Electrical Workshop
- Electrical Appliances and Repair Laboratory
- Computer Laboratory



These laboratories provide students with opportunities to develop practical skills, conduct experiments, and gain industry-relevant experience in modern electrical engineering technologies.

Vision:

To be recognized globally as a center of excellence which offers high-quality education in the domain of electrical engineering technology and prepare a technologically skilled community employable in industry and academia

Mission:

The mission of Department of Electrical Engineering Technology is to produce graduates equipped with technical and communication skills driven by the knowledge of modern scientific methods, tools, and techniques necessary for solving global technology problems.

Program Educational Objectives

PEO-1 Graduates utilizing their professional approach to solve the electrical technology issues of the society.

PEO-2 Graduates engraved with state of the art technical & managerial skills to serve the community.

PEO-3 Graduates have strong commitment to ethical & moral practices as a team leader or as an individual.



Faculty Of Electrical Engineering Technology

S. No	Name	Designation
1	Dr. Safdar Ali Abro B.E (Electrical), PhD (Electrical Engineering))	Chairperson
2	Dr. Ali Raza Chachar B.E (Electrical), PhD (Electrical Engineering)	Assistant Professor
3	Dr. Hassan Ali Soomro B.E (Electrical), Ph.D. (Malaysia)	Assistant Professor
4	Engr. Muzammil Hussain B.E (Electrical), M.E (Electrical Power Engineering)	Assistant Professor (On Study Leave)
5	Engr. Sayed Ali Shan B.E (Electrical), M.E (Electrical Power Engineering)	Lecturer
6	Engr. Aftab Ali Samejo B.E (Electrical), M.E (Electrical Power Engineering)	Lecturer (On Study Leave)
7	Engr. Furqan Latif Memon B.E (Electrical), M.E (Electrical Power Engineering)	Lecturer
8	Engr. Khalid Hussain Shah B.E (Electrical), M.E (Electrical Power Engineering)	Lecturer

Scheme of the Study

1st Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELH-111 ELH-112	Islamic Studies/Social Ethics	Art & Humanities-I	2	0	2	0	50	0
2	ELE-111	Communication Skills	Expository Writing-I	3	0	3	0	100	0
3	ELN-111	Applied Physics	Natural Sciences-I	2	1	2	3	50	50
4	ELC-111	Information and Communication Technology	Computing-I	2	1	2	3	50	50
5	ELT-111	Electrical Workshop	EET Foundation-I	0	2	0	6	0	100
6	ELI-111	Mechanical Engg. Technology	Inter Disciplinary Technology Elective-I	1	1	1	3	50	50
7	MTH-110	*Basic Mathematics	Quantitative Reasoning	0	0	3	0	100	0
Total				10	5	13	15	400	250
Grand Total				15		28		650	

2nd Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELH-121	Pakistan Studies	Art & Humanities-II	2	0	2	0	50	0
2	ELQ-121	Calculus & Analytical Geometry	Quantitative Reasoning-I	2	0	2	0	50	0
3	ELM-121	Leadership & Entrepreneurship	Management Sciences-I	3	0	3	0	100	0
4	ELC-121	Computer Programming	Computing-II	1	1	1	3	50	50
5	ELT-121	Linear Circuit Analysis	EET Foundation-II	2	1	2	3	50	50
6	ELT-122	Environment, Health and Safety	EET Foundation-III	2	1	2	3	50	50
Total				12	3	12	9	350	150
Grand Total				15		21		500	

3rd Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELH-211/ ELH-212	Fehm-ul-Quran-I/ Civics & community Engagement-I	Art & Humanities-III	0	1	0	3	0	50
2	ELE-211	Technical Report Writing	Expository Writing-II	3	0	3	0	100	0
3	ELQ-211	Linear Algebra	Quantitative Reasoning-II	2	0	2	0	50	0
4	ELT-211	Technical Drawing	EET Foundation- IV	0	1	0	3	0	50
5	ELT-212	Electronic Devices & Circuits	EET Foundation- V	2	1	2	3	50	50
6	ELT-213	Logic Circuits and Applications	EET Foundation- VI	2	1	2	3	50	50
7	ELT-214	Electrical Network Analysis	EET Foundation- VII	2	1	2	3	50	50
Total				11	5	11	15	300	250
Grand Total				16		26		550	

4th Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELT-221	Instrumentation and Measurements	EET Breadth Core- I	2	1	2	3	50	50
2	ELT-222	Electrical Machines	EET Breadth Core- II	2	1	2	3	50	50
3	ELT-223	Signal and System	EET Foundation- VIII	2	1	2	3	50	50
4	ELT-224	Micro-Controller Systems	EET Foundation- IX	2	1	2	3	50	50
5	ELT-225	Electrical Power Transmission	EET Breadth Elective-I	2	1	2	3	50	50
6	ELH- 221/ELH- 222	Fehm-ul-Quran-II/ Civics & community Engagement-II	Art & Humanities- IV	0	1	0	3	0	50
Total				10	6	10	18	250	300
Grand Total				16		28		550	



5th Semester

S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELT-311	Control Technology	EET Depth Core-I	2	1	2	3	50	50
2	ELT-312	Communication Systems	EET Depth Core-II	2	1	2	3	50	50
3	ELT-313	Electrical Power Distribution & Utilization	EET Breadth Elective-II	2	1	1	3	50	50
4	ELT-314	Power Generation Technology	EET Depth Elective-I	2	0	2	0	50	0
5	ELT-315	Electrical Appliances Repair	EET Depth Elective-II	1	2	1	6	50	100
6	ELT-316	Mobile Phone Assembly & Repair	EET Depth Elective-III	1	1	2	3	50	50
7	ELQ-311	Differential Equations	Quantitative Reasoning-III	2	0	2	0	50	0
Total				12	6	12	18	350	300
Grand Total				18		30		650	

6th Semester

S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELM-321	Project Management	Management Sciences-II	2	0	2	0	50	0
2	ELT-321	Power System Protection	EET Depth Elective-IV	2	1	2	3	50	50
3	ELT-322	Power Electronics	EET Depth Elective-V	2	1	2	3	50	50
4	ELT-323	Industrial Drives & PLC	EET Depth Elective-VI	2	1	2	3	50	50
5	ELI-321	Heat Ventilation & Air Conditioning	Inter Disciplinary Technology Elective-II	2	1	2	3	50	50
6	ELT-324	Project Part-I	EET Domain Project	0	3	0	9	0	100
Total				10	7	10	21	250	300
Grand Total				17		31		550	



7th Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELN-411	Numerical Analysis	Social Science-II	2	1	2	3	50	50
2	ELT-411	Renewable Energy Technologies	EET Depth Elective-VII	2	1	2	3	50	50
3	ELT-412	Electrification Technology	EET Depth Elective-VIII	2	1	2	3	50	50
4	ELT-413	Machine Repair & Maintenance	EET Depth Elective-IX	2	1	2	3	50	50
5	ELC-411	Artificial Intelligence	Computing-III	1	1	1	3	50	50
6	ELT-414	Project Part-II	EET Domain Project	0	3	0	9	0	100
Total				9	8	9	24	250	350
Grand Total				17		33		600	

8th Semester									
S#	Course Code	Subject	Nature	Credit Hours		Weekly Contact Hours		Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ELT-421	16 Weeks Supervised Industrial / Field Training	Major based Depth	0	16	—	40	0	300
Total				0	16	40/week			300
Grand Total				16		40/week		300	

SUMMARY		
Bachelor of Electrical Engineering Technology		
Semester	Credit Hours	
	TH	PR
1st	10	5
2nd	12	3
3rd	11	5
4th	10	6
5th	12	6
6th	10	7
7th	09	08
8th	0	16
Total	74	56
Grand Total	130	

DEPARTMENT OF ELECTRONICS AND ROBOTICS & AI ENGINEERING TECHNOLOGY

Department Of Electronics Engineering Technology

Electronics Engineering Technology is intricately woven into many sectors of industry which affect our daily life. Electronics Engineering Technology is an engineering technology field that implements and applies the principles of Electrical Engineering. Electronics Engineering Technology deals with the design, application, installation, manufacturing, operation or maintenance of electrical/electronic(s) systems. Electronics Engineering Technology is one of the most evolving fields. It has evolved from telegraph communication to wireless communication to satellite communication to fiber-optic telecommunication and data rate has reached up to several 100 MBs per second. The evolution of digital computers from ancient abacus digital computers to latest super computers is also because of development of Electronics Engineering Technology. Electronics Engineering Technology has enabled every production, processing, and manufacturing industry from manual to automatic control. Electronics Engineering Technology is responsible for the safe take-off and landing of super jets. In short, Electronics Engineering Technology has brought human life to the bed of roses.

To carry on this development electronic engineering professionals are needed. If you're a critical thinker who enjoys putting things together and integrating multiple systems, then a degree in Electronics Engineering Technology could be the beginning of your new career. The BBSU-TECH's Electronics Engineering Technology degree is a skill-based degree with hands on labs, simulation under the supervision of foreign qualified and industry experienced faculty. Beginning with electrical fundamentals, the Electronics Engineering Technology program encompasses the knowledge of variety of subjects of diverse field like Electronic Circuits & Devices and their applications, Electronics Circuit Design, Digital Logic Design, Microprocessors & Interfacing, Automation and Robotics, Communications System Technology, Signal & Systems, Industrial Electronics, Power Electronics, VLSI Design, Artificial Intelligence and Machine Learning, Instrumentation & Control, FPGA based systems, Wave Propagation and Antennas, Computer Communication & Networking. The program is accredited by National Technologist Council (NTC) and Higher Education Commission (HEC) of Pakistan.

The department of Electronics Engineering Technology has following dedicated laboratories:

1. Electronic Devices and Circuits Laboratory
2. Instrumentation and Control Laboratory
3. Modelling and Simulation Laboratory
4. Project Development Laboratory

Vision

To develop competent technologists and responsible professionals in Electronics Engineering Technology to face the current and future challenges of technological development.

Mission

To blend technical knowledge with practical skills and innovative mindset to develop a problem-solving approach and provide quality education and research to address national and international challenges by seeking continuous improvement of knowledge skills and implanting right ethical values.

Program Educational Objectives (PEOs)

PEO 1: Develop the capability to grab the fundamentals of science and electronics engineering technology for determining, investigating and solving the technological problems of society with practical and futuristic approach.

PEO 2: Produce graduates who have strong technical and interpersonal skills to adapt the future trends of technology using modern tools and techniques and serve as dynamic professionals.

PEO 3: Follow the process of continuous learning, ensure ethical values and pledge to sustain the global environment

Faculty Of Electronics Engineering Technology

S.N O	NAME WITH QUALIFICATION	DESIGNATION
1	Dr. Muhammad Saleem Memon B.E (MUET), MS and Ph.D. (South Korea)	Assistant Professor/ Chairperson
2	Engr. Dr. Shazia Feroz	Assistant Professor
3	Dr. Muhammad Hanif Ahmed Khan Khushik B.E (NED), M.E (MUET), Ph.D. (China)	Assistant Professor
4	Engr. Kundan Kumar B.E (MUET), M.E (HAMDARD)	Assistant Professor
5	Engr. Ghalib Raza Solangi B.E, M.E (MUET+AAU Denmark)	Assistant Professor
6	Engr. Ronak Ali Baladi B.E (Sukkur IBA University), ME (Bahria University) PHD (University of Kentucky, USA)	Assistant Professor
7	Engr. Izhar Hussain Memon B.E,M.E (Sukkur IBA University)	Lecturer
8	Engr. Saadia Kulsoom Memon B.E, M.E (MUET, Jamshoro)	Lecturer
9	Engr. Arif Hussain Lakho B.E, ME (Sukkur IBA University)	Lecturer

Scheme Of the Study

1st Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	NSC -111	Applied Calculus	Natural Sciences	2	0	2	0	50	0
02	HUM-111	Islamic Studies	Humanities	1	0	1	0	50	0
03	HUM-112	Ethics	Humanities	1	0	1	0	50	0
04	NSC-112	Applied Physics	Natural Sciences	2	1	2	3	50	50
05	COM-111	Introduction to Computing	Computing	1	2	1	6	50	10
06	EST-111	Electronic Workshop	Foundation	0	2	0	6	0	10
01	EET-113	Electrical Circuits	Foundation	2	1	2	3	50	50
Total				9	6	9	18	300	300
Grand Total				15		27		600	

2nd Semester									
S. No.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EET-121	Linear Circuit Analysis	Foundation	2	1	2	3	50	50
02	NSC-121	Differential Equations	Natural Sciences	2	0	2	0	50	0
03	HUM-121	Pakistan Studies	Humanities	3	0	3	0	100	0
04	EST-122	Solid State Electronics	Foundation	2	0	2	0	50	0
05	COM-121	Computer Programing	Computing	0	1	0	3	0	50
06	MGM-121	Technology Economics & Management	Management Sciences	3	0	3	0	100	0
07	ECS-121	Professional Ethics	Social Sciences	3	0	3	0	100	0
Total				15	2	15	6	450	100
Grand Total				17		21		550	

3rd Semester									
S.No.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EET-211	Electrical Network Analysis	Foundation	2	1	2	3	50	50
02	NSC-211	Linear Algebra	Natural Sciences	2	0	2	0	50	0
03	EST-211	Digital Electronics	Foundation	1	1	1	3	50	50
04	ECS-211	Organization Behavior	Social Sciences	3	0	3	0	100	0
05	MET-211	Technical Drawing	Computing	0	1	0	3	0	50
06	EST-212	Electronic Devices	Foundation	2	1	2	3	50	50
07	EST-213	IC Fabrication	IDTE	2	1	2	3	50	50
Total				12	5	12	15	350	250
Grand Total				17		27		600	

4th Semester									
S. No.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EET-221	Electrical Machines	Breadth	2	1	2	3	50	50
02	GCE-221	Technical Report Writing	Humanities	3	0	3	0	100	0
03	EST-221	Instrumentations and Measurements	Breadth	2	1	2	3	50	50
04	EST-222	Amplifiers and Oscillators	Breadth	2	1	2	3	50	50
05	EST-223	Microprocessors and Microcontrollers	Breadth	2	1	2	3	50	50
06	EST-224	Signal and Systems	Foundation	2	1	2	3	50	50
Total				13	5	13	15	350	250
Grand Total				18		28		600	

5th Semester									
S.No.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EST-311	Communication Systems	Breadth	1	1	1	3	50	50
02	EST-312	Control Systems	Breadth	2	1	2	3	50	50
03	NSC-311	Numerical Analysis	Natural Sciences	3	1	3	3	100	50
04	MGM-311	Principles of Marketing	Management Sciences	3	0	3	0	100	0
05	EST-313	Industrial Electronics	Depth	2	1	2	3	50	50
06	EST-314	Renewable Energy	Foundation	2	1	2	3	50	50
Total				13	5	13	15	400	250
Grand Total				18		28		650	

6th Semester									
S.No.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EST-321	Power Electronics	Breadth	2	1	2	3	50	50
02	EST-322	Industrial Automation	Breadth	2	1	2	3	50	50
03	EST-323	VLSI Technology	Breadth	2	1	2	3	50	50
04	EST-324	Embedded Systems	Depth	2	1	2	3	50	50
05	EST-325	Nanotechnology	Depth	2	0	2	0	50	0
07	EST-326	Project-I	Project	0	3	0	9	0	150
Total				10	7	10	21	250	350
Grand Total				17		31		600	

8th Semester									
S.N o.	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
01	EST-421	Supervised Industrial Training (Compulsory)	Industrial Training	0	16	0	16	0	800

BACHELOR OF ENGINEERING TECHNOLOGY (B.E-TECH) ROBOTICS AND ARTIFICIAL INTELLIGENCE

Program Overview

The Bachelor of Engineering Technology (B.E-Tech) in Robotics and Artificial Intelligence (AI) is a specialized 4-year undergraduate program that integrates Electronics Engineering Technology principles with the latest advancements in robotics and artificial intelligence technologies. The program is designed to provide students with a deep understanding of both the hardware and software aspects of intelligent systems, robotics, and automation.

Main Feature of the BE-Tech in Robotics and Artificial Intelligence Program

The BE-Tech program combines Electronics Engineering principles with Robotics and Artificial Intelligence (AI) technologies, offering a comprehensive foundation in both hardware and software. By aligning with Industry 4.0, the program equips students with the skills to design, develop, and implement cutting-edge robotic systems and AI-powered solutions that are driving advancements in automation, smart manufacturing, and digital transformation across industries.

Students will gain foundational knowledge in electronics engineering, focusing on Circuit Design, Digital Logic, Embedded Systems, Control Systems, IoT and Industrial Automation. These core areas form the foundation for developing and applying robotics and AI technologies.

This program then aims to equip students with specialized knowledge and Skillset in Robotics and AI technologies including areas such as Robot Design, Operation and control systems, Autonomous navigation, Machine learning Techniques, Deep learning algorithms, Computer vision, image processing, natural language processing and data analytics, empowering them to develop advanced robotics and AI solutions.

Students will also gain practical experience in building and programming robots, as well as designing AI-based intelligent systems capable of interacting with the physical world. They will work with sensors, controllers, and actuators to create systems that perceive their environment, make intelligent decisions, and perform tasks autonomously. Through hands-on projects, students will develop strong programming skills in languages such as Python, C++, and MATLAB, enabling them to write algorithms and code for robot control, data processing, and intelligent decision-making.

The program offers vast opportunities in robotics, artificial intelligence, and automation across various sectors, including manufacturing, healthcare, government, and consulting firms. With the increasing demand for robotics, students can pursue higher education and entrepreneurship in intelligent systems.

Career Prospects:

Graduates of the BE-Tech in Robotics and AI program are equipped with a versatile skill set that opens up a wide range of career opportunities across industries. Some of the key career prospects include:

Automation Engineer: Specialize in automating industrial processes and improving system efficiency using robotics and AI.

Control Systems Technologist: Develop control systems and algorithms for robots, ensuring precise, real-time decision-making for autonomous operations.

Robotics Technologist: Design, develop, and maintain robotic systems for diverse applications in manufacturing, healthcare, and autonomous systems.

AI Engineer/Researcher: Develop intelligent systems capable of learning, reasoning, and decision-making in industries like finance, healthcare, and autonomous systems.

Embedded Systems Engineer: Work on the design and integration of hardware and software for robotic systems and IoT devices.

Machine Learning Engineer: Develop machine learning models and algorithms to solve complex problems across industries.

Research and Development (R&D): Work in academic, governmental, or private sector R&D labs focused on advancing robotics, AI, and automation technologies.

Vision & Mission

Vision & Mission

University Vision:

To lead global engineering technology, science, and humanities education aimed at market-driven employable and entrepreneurial skills to empower community.

University Mission:

To empower the community with hands-on technological knowledge through a high-quality teaching & research environment, innovative tools & techniques, and entrepreneurial & global leadership skills with the consciousness of ethical norms & values.

Program Mission:

Leveraging modern tools (e.g., ROS, Machine Learning frameworks, and embedded systems) to address AI-driven automation, manufacturing, and healthcare needs, while fostering lifelong learning, innovation, entrepreneurship, and leadership through effective collaboration and communication.

P. EOs

PEO#	Statement
PEO 1	Technical Competence & Problem Solving Graduates will apply core principles of robotics, artificial intelligence, mathematics, and engineering science to analyze, design, implement, and evaluate intelligent systems that meet evolving market-driven needs in automation, manufacturing, healthcare, and related domains.
PEO 2	Professional Practice & Ethical Responsibility Graduates will demonstrate proficiency with contemporary tools, platforms, and methodologies (e.g., ROS, machine-learning frameworks, embedded systems) in professional settings, while upholding ethical norms, sustainability principles, and societal responsibilities in system development and deployment.
PEO 3	Innovation, Entrepreneurship & Lifelong Learning Graduates will engage in continuous professional development, research, and entrepreneurial activities—leveraging cutting-edge technologies to create value, drive innovation, and address real-world challenges in both local and global contexts.

PEO 4	Communication & Leadership in Multidisciplinary Teams Graduates will effectively communicate technical concepts and project outcomes, and lead or collaborate within diverse, multidisciplinary teams—fostering inclusive leadership, stakeholder engagement, and project management best practices.
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Program Learning Outcomes (PLOs)/Graduate Attributes		Program Education Objectives (PEOs)			
		PEO 1	PEO 2	PEO 3	PEO 4
PLO 1	Engineering Technology Knowledge	3	2	3	0
PLO 2	Problem Analysis	3	3	0	0
PLO 3	Design/Development of Solutions	3	2	3	1
PLO 4	Investigation	3	2	1	2
PLO 5	Modern Tool Usage	3	3	2	0
PLO 6	Engineering Technologist and Society	1	3	3	3
PLO 7	Environment and Sustainability	1	1	3	2
PLO 8	Ethics	0	3	3	2
PLO 9	Individual and Team Work	0	1	2	3
PLO 10	Communication	2	0	0	3
PLO 11	Project Management	1	1	2	3
PLO 12	Lifelong Learning	2	1	3	3

Program Learning Outcomes (PLOs)

Program outcomes are the statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills and attitude that the students acquire while progressing through the program. The program must demonstrate that the students have attained a certain set of knowledge, skills and behavioral traits, at least to some acceptable minimum level. Specifically, it is to be demonstrated that the students have acquired the following graduate attributes but are not limited to:

- Engineering Technology Knowledge (SA1): An ability to apply knowledge of mathematics, natural science, Engineering Technology fundamentals and Engineering Technology specialization to define and apply Engineering Technology procedures, processes, systems or methodologies.
- Problem Analysis (SA2): An ability to Identify, formulate, research literature and analyze broadly defined Engineering Technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.
- Design/Development of Solutions (SA3): An ability to design solutions for broadly- defined Engineering Technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- Investigation (SA4): An ability to conduct investigations of broadly defined problems; locate, search and select relevant data from codes, databases and literature, design and conduct experiments to provide valid conclusions.
- Modern Tool Usage (SA5): An ability to Select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modelling, to broadly defined Engineering Technology problems, with an understanding of the limitations.

- The Engineering Technologist and Society (SA6): An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to Engineering Technology practice and solutions to broadly defined Engineering Technology problems.
- Environment and Sustainability (SA7): An ability to understand and evaluate the sustainability and impact of Engineering Technology work in the solution of broadly defined Engineering Technology problems in societal and environmental contexts.
- Ethics (SA8): Understand and commit to professional ethics and responsibilities and norms of Engineering Technology practice
- Individual and Team Work (SA9): An ability to Function effectively as an individual, and as a member or leader in diverse teams.
- Communication (SA10): An ability to communicate effectively on broadly defined Engineering Technology activities with the Engineering Technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- Project Management (SA11): An ability to demonstrate knowledge and understanding of Engineering Technology management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.
- Lifelong Learning (SA12): An ability to recognize the need for and have the ability to engage in independent and life-long learning in specialist Engineering Technologies.

Laboratories:

- The Department of Robotics & Artificial Intelligence provides comprehensive hands-on training through its specialized laboratory facilities. Students engage in practical applications that complement their theoretical studies, working directly with robotic systems, AI development platforms, and industrial automation equipment. The laboratory curriculum is carefully structured to reinforce classroom learning while developing technical competencies in key areas including robotic programming, machine learning implementation, embedded system design, and industrial control systems. Every circuit assembled, every algorithm debugged, and every robot calibrated reinforces our mission: to create not just graduates, but pioneers ready to redefine the future of automation and artificial intelligence.
- Through systematic laboratory exercises, students verify engineering principles while gaining proficiency with current industry technologies. The program emphasizes applied problem-solving, requiring students to design, test and optimize complete systems. This practical approach ensures graduates develop both the technical skills and analytical capabilities needed for professional work in automation, intelligent systems
- development, and related technical fields.

Artificial Intelligence & Machine Learning Lab (Simulation & Modelling)

- The Artificial Intelligence & Machine Learning Lab provides students with a dedicated environment for developing and testing intelligent systems through computational modeling and simulation. Equipped with high-performance computing resources and specialized software tools, the lab supports hands-on experimentation with machine learning algorithms, neural networks, and AI-driven simulations.

- Students work with real-world data sets to train and validate models, exploring applications in computer vision, natural language processing, predictive analytics, and autonomous systems. The lab's simulation capabilities enable the study of complex scenarios, allowing learners to analyze system behavior, optimize parameters, and evaluate performance under controlled conditions



*Artificial Intelligence & Machine Learning
Lab (Simulation & Modelling)*



Robotics & Automation Lab

Robotics & Automation Lab

The Robotics & Automation Lab provides students with a practical platform to design, program, and test robotic systems and automated solutions. Equipped with robotic arms, mobile robots, humanoids and series of controllers, sensors and actuators, the lab enables hands-on experimentation with real-world automation challenges.

Students gain experience in robot kinematics, sensor integration, motion planning, and industrial automation through structured exercises and projects. The lab's infrastructure supports the development of complete robotic systems, from mechanical assembly to intelligent control algorithms.

Instrumentation and Control Lab

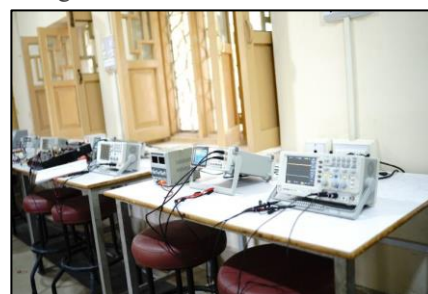
Instrumentation and Control Lab provides hands-on experience in designing control algorithms and devices that can drive a wide range of mechanisms. Students can utilize a broad collection of state-of-the-art software and hardware tools (from NI, MathWorks, TI and Xilinx) available to build highly effective machines, sophisticated control systems, versatile rovers and innovative biomedical devices. Moreover, it has a wealth of resources to teach the students the fundamentals of Newtonian Mechanics, Engineering Design, Feedback Control, Industrial Control & Robotics.

Electronics Devices & Circuits Lab

The Electronics Devices & Circuits Lab provides comprehensive training in electronic circuit design, analysis, and testing. Equipped with digital storage oscilloscopes, DC power supplies, digital multimeters, function generators, LCR meters, and a complete inventory of components—including diodes, transistors, ICs, resistors, and capacitors, the lab enables students to build, measure, and troubleshoot analog and digital circuits.



Instrumentation and Control



*Electronics Devices &
Circuits Lab*

Scheme Of the Study

1st Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	MTH-110	Basic Mathematics - I	Natural Science	0	0	0	0	0	0
2	GCE-111	Functional English	Humanities & Social Sciences	3	0	3	0	10	0
3	NSC-112	Applied Physics	Natural Science	2	1	2	3	50	50
4	GE-111	Computer fundamentals	Computing	2	1	2	3	50	50
5	RAI-111	Introduction to Robotics and AI	Foundation	3	0	3	0	10	0
06	HUM-111/ HUM-112	Islamic Studies/Ethics	Humanities & Social Sciences	2	0	2	0	50	0
7	NSC-111	Applied Calculus	Natural Sciences	3	0	3	0	10	0
Total				15	2	15	6	45	10
Grand Total				17		21		550	

2nd Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CS-121	Programming Fundamentals	IDTE	2	1	2	3	50	50
2	NSC-121	Linear Algebra & Differential Equations	Natural Science	3	0	3	0	100	0
3	GCE-121	Communication and presentation Skills	Humanities & Social Sciences	3	0	3	0	100	0
4	HUM-122	Pakistan Studies	Humanities & Social Sciences	2	0	2	0	50	0
5	RAI-121	Basic Electronics	Foundation	2	1	2	3	50	50
6	RAI-122	Engineering Mechanics	IDTE	2	1	2	3	50	50
Total				14	3	14	9	400	150
Grand Total				17		23		550	

3rd Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	RAI-211	Digital Logic Design	Breadth	3	1	3	3	100	50
2	RAI-212	Sensors and Data Acquisition	Breadth	2	1	2	3	50	50



3	RAI-213	Data Structures and Algorithms	Breadth	2	1	2	3	50	50
4	MET-214	Mechanical System Design	IDTE	2	1	2	3	50	50
5	NSC-211	Discrete Structure	Natural Science	3	0	3	0	100	0
Total				12	4	12	12	350	200
Grand Total				16		24		550	

4th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	NSC-221	Probability and Statistics	Natural Science	3	0	3	0	100	0
2	RAI-221	Artificial Intelligence	Breadth	2	1	2	3	50	50
3	RAI-222	Embedded System Design	Breadth	2	1	2	3	50	50
4	RAI-223	Control System	Breadth	2	1	2	3	50	50
5	GCE-221	Technical Writing	Humanities & Social Sciences	3	0	3	0	100	0
6	MGM-221	Organizational Behavior	Humanities & Social Sciences	2	0	2	0	50	0
Total				14	3	14	9	400	150
Grand Total				17		23		550	

5th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	MET-311	Pneumatics and Hydraulics Systems	IDTE	2	1	2	3	50	50
2	RAI-311	Data Science	Depth	2	1	2	3	50	50
3	RAI-312	Machine Learning Techniques	Depth	3	1	3	3	100	50
4	RAI-313	Robotic System & Programming	Depth	2	1	2	3	50	50
5	MGM-311	Entrepreneurship	Management Sciences	3	0	3	0	100	0
6	MGM-312	Professional Ethics	Management Sciences	3	0	3	0	100	0
Total				15	4	15	12	450	200
Grand Total				19		27		650	

6th Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	RAI-321	Human-Robot Interaction	Depth	2	1	2	3	50	50
2	RAI-322	Wireless Sensor Networks	Depth	2	1	2	3	50	50
3	RAI-323	Deep Learning	Depth	2	1	2	3	50	50
4	RAI-324	IoT-Based Intelligent System Design	Depth	2	1	2	3	50	50
5	RAI-325	International Relations	Humanities & Social Sciences	3	0	3	0	100	0
6	RAI-326	Final year project I		0	3	0	9	0	100
Total				11	7	11	21	300	300
Grand Total				18		32		600	

7th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	RAI-411	Robotics in Healthcare	Depth	2	0	2	0	50	0
2	RAI-412	Generative AI	Depth	2	1	2	3	50	50
3	RAI-413	Soft Robotics	Depth	2	1	2	3	50	50
4	RAI-414	Cloud Computing	Depth	2	0	2	0	50	0
5	RAI-415	Web and App Development	Depth	2	1	2	3	50	50
6	RAI-415	Final year project II		0	3	0	9	0	100
Total				10	6	10	18	250	250
Grand Total				16		28		500	

8th Semester					
S. No.	Course Code	Course	Nature	Credit Hours	
				TH	PR
01	RAI-421	16 Weeks Supervised Industrial / Field Training	(8x5=40 Hrs / Week)	00	16
Total				00	16
Grand Total				91	45
Total CHs				136	

DEPARTMENT OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

Department of Computer Science

Chairperson Message

Welcome to the Department of Computer Science. The department is committed to producing competent computing professionals equipped with contemporary knowledge, technical expertise, and ethical values to address emerging technological challenges. Through collaboration with industry, academia, government, and other stakeholders, we strive to provide a learning environment that fosters innovation, problem-solving, communication skills, and lifelong learning.

Dr. Asad Hameed Soomro

Chairperson (In-charge), Department of Computer Science



Vision

The vision of the Department of Computer Science is to be recognized as a center of excellence in the domain of computing by empowering students to gain strong technical competence and offer cutting-edge solutions to local and global technology problems using emerging technologies.

Mission

The Department of Computer Science aims to produce qualified computer Professionals and skilled manpower by focusing on contemporary and essential knowledge and technical skills through collaborations with the government, industry, and other stakeholders. It will adopt a holistic approach to improve students' ethical conduct, lifelong learning, problem-solving, economic leadership, and communication abilities.

Program Educational Objectives

PEO-1

Demonstrate hands-on skills to design, implement, troubleshoot and maintain software/hardware related to field of Computer Engineering either independently as a freelancer/entrepreneur or as an employee of the relevant Computer Technology Industry.

PEO-2

Show professional integrity and commitment to social and ethical as well as environmental responsibilities.

PEO-3

Demonstrate leadership to efficiently work as a manager/team lead in a multi-disciplinary environment through effective communication and interpersonal skills.

PEO-4

Demonstrate continuous professional growth and passion to keep to-date with emerging technologies.

Program Educational Objectives

Academic Education	To prepare graduates as computing professionals
Knowledge for Solving Computing Problems	Apply knowledge of computing fundamentals, knowledge of computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the 16 abstraction and conceptualization of computing models from defined problems and requirements
Problem Analysis	Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines
Design/ Development of Solutions	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations
Modern Tool Usage	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings
Communication	Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions
Computing Professionalism and Society	Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice
Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice
Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional

Faculty of Computer Science

S.NO	NAME WITH QUALIFICATION	DESIGNATION
1	Dr. Asad Hameed Soomro BS (CS), MS (CS), PhD. (CS)	Lecturer / Chairperson (In-charge)
2	Mr. Sajjad Ali Lashari. BS (CS), MS (CS)	Lecturer/Coordinator
3	Ms. Shagufta Naz BS (CS), MS (CS)	Lecturer (Study Leave)
4	Muhammad Azam Bhutto	Lecturer (Contract)
5	Ms. Rubab Roshan	Lecturer (Contract)
6	Mr. Ghulam Murtaza Channa	Lecturer (Contract)

7	Mr. Razwan Ali	Lecturer (Visiting)
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Course Scheme for BS Computer Science

Semester 01								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1.	GE-111	Computer Fundamentals	2	1	2	3	50	50
2.	CS-111	Programming Fundamentals	3	1	3	3	100	50
3.	GE-112	Pakistan Studies	2	0	2	0	50	0
4.	GE-113	Discrete Structure	3	0	3	0	100	0
5.	GE-114	Functional English	3	0	3	0	100	0
6.	GE-115	Mathematics-I	3	0	3	0	100	0
Total			16	2	16	6	500	100
Grand Total			18		22		600	

Semester 02								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-121	Object Oriented Programming	3	1	3	3	100	50
2	CS-122	Digital logic design	2	1	2	3	50	50
3	GE-121	Applied Physics	2	1	2	3	50	50
4	GE-122	Islamic Studies /Ethics	2	0	2	0	50	0
5	GE-113	Calculus & Analytical Geometry	3	0	3	0	100	0
6	GE-113	Mathematics-II	3	0	3	0	100	0
Total			15	3	15	9	450	150
Grand Total			18		24		600	

Semester 03



S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-211	Data Structures	2	1	2	3	50	50
2	CS-212	Data Base System	3	1	3	3	100	50
3	GE-211	Expository Writing	3	0	3	0	100	0
Semester 04								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-221	Design and Analysis of Algorithms	2	1	2	3	50	50
2	CS-222	Web Technologies	2	1	2	3	50	50
3	CS-223	Computer Organization & Assembly Language	2	1	2	3	50	50
4	CS-224	Software Engineering	3	0	3	0	100	0
5	MT-211	Probability & Statistics	3	0	3	0	100	0
6	Hum-221	Faham-e-Quran/ Civics and Community engagement	0	1	0	3	0	50
Total			12	4	12	12	350	200
Grand Total			16		24		550	

Semester 05								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-311	Computer Networks	2	1	2	3	50	50
2	CS-312	Human Computer Interaction	2	1	2	3	50	50
3	CS-313	Advance Database Management Systems	2	1	2	3	50	50
4	CS-314	Operating Systems	2	1	2	3	50	50
5	GE-311	Technical & Business Writing	3	0	3	0	100	0
6	CS-315	Theory of Automata	3	0	3	0	100	0

Total	14	4	14	12	400	200
Grand Total	18		26		600	

Semester 06								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-321	Mobile Application Development	2	1	2	3	50	50
2	CS-322	Information Security and Cyber Security	2	1	2	3	50	50
3	CS-323	Computer Graphics	2	1	2	3	50	50
4	CS-324	Compiler Construction	3	0	3	0	100	0
5	GE-311	Project Management	3	0	3	0	100	0
6	CS-325	Visual Programing	2	1	2	3	100	50
Total			14	4	14	12	450	200
Grand Total			18		26		650	

Semester 07								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-411	Final Year Project –I	0	3	0	9	0	150
2	CS-412	Internet of Things	3	0	3	0	100	0
3	CS-413	Computer Architecture	2	1	2	3	50	50
4	CS-414	Parallel & Distributed Computing	3	0	3	0	100	0
5	CS-415	Game Development	2	1	2	3	50	50
6	GE-412	Professional Practices	2	0	2	0	50	0
Total			12	5	12	15	350	250
Grand Total			17		27		600	

Semester 08								
S No:	Course No.	Course Title	Credit Hours		Contact Hours		Marks	
			T	P	T	P	T	P
1	CS-421	Final Year Project -II	0	3	0	9	0	150
2	CS-423	Software Testing & Quality assurance	3	1	3	3	100	50
3	CS-424	Cloud Computing	2	1	2	3	50	50
4	GE-411	Entrepreneurship	3	0	3	0	100	0
Total			8	5	8	15	250	250
Grand Total			13		23		500	

Note: As Per National Computing Education Accreditation Council (NCEAC) different categories/areas for BS Computer Science used in above tables:

Core =Computing Core

Math= Mathematics & Supporting Courses

GER= General Education Requirement (as per HEC UG Education Policy) □ NC= Non-Credit

Bachelor of Science (Artificial Intelligence)

(Under the umbrella of the Computer Science Department)

Chairperson Message

The BS Artificial Intelligence program has been designed in accordance with national academic standards and contemporary industry requirements. The curriculum integrates strong computing foundations with advanced artificial intelligence concepts, practical laboratory experience, project-based learning, and professional development opportunities. The program aims to prepare graduates capable of contributing effectively to the rapidly evolving field of Artificial Intelligence while maintaining the highest standards of professionalism and ethical conduct.

Dr. Asad Hameed Soomro

Chairperson (In-charge), Department of Computer Science

Vision

To lead in technological education by cultivating graduates equipped with market-driven AI expertise, entrepreneurial skills, and a commitment to addressing societal challenges and empowering communities through innovation and ethical practices.

Mission

To cultivate graduates with analytical expertise to design and implement impactful AI solutions. By fostering a high-quality learning environment, practical knowledge, and ethical awareness, the program equips individuals with the skills to drive innovation, address societal challenges, and lead in the evolving field of AI.

Program Learning Outcomes (PLOs)

Academic Education	To prepare graduates as computing professionals
Knowledge for Solving Computing Problems	Apply knowledge of computing fundamentals, knowledge of computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the 16 abstraction and conceptualization of computing models from defined problems and requirements
Problem Analysis	Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines
Design/ Development of Solutions	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations
Modern Tool Usage	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations
Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings
Communication	Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions
Computing Professionalism and Society	Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice
Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice
Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional

Faculty Of Bachelor of Science (Artificial Intelligence)

S.NO	NAME WITH QUALIFICATION	DESIGNATION
1	Dr. Asad Hameed Soomro BS (CS), MS (CS), PhD. (CS)	Lecturer / Chairperson (In-charge)
2	Mr. Sajjad Ali Lashari. BS (CS), MS (CS)	Lecturer/Coordinator
3	Ms. Shagufta Naz BS (CS), MS (CS)	Lecturer (Study Leave)
4	Muhammad Azam Bhutto	Lecturer (Contract)
5	Ms. Rubab Roshan	Lecturer (Contract)
6	Mr. Ghulam Murtaza Channa	Lecturer (Contract)
7	Mr. Razwan Ali	Lecturer (Visiting)

Course Scheme for BS Artificial Intelligence

1st Semester

S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	GE-111	Computer Fundamentals	GER	2	1	2	3	50	50
2	AI-111	Programming Fundamentals	Core	3	1	3	3	100	50
3	GE-112	Pakistan Studies	GER	2	0	2	0	50	0
4	GE-113	Discrete Structure	GER	3	0	3	0	100	0
5	GE-114	Functional English	GER	3	0	3	0	100	0
6	GE-115	Mathematics-I	Deficiency Course	3	0	3	0	100	0
Total				13	2	13	6	400	100
Grand Total				15		19		500	

2nd Semester

S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-121	Object Oriented Programming	Core	3	1	3	3	100	50
2	AI-123	Digital logic design	Core	2	1	2	3	50	50
3	GE-121	Applied Physics	GER	2	1	2	3	50	50
4	GE-122	Islamic Studies / Ethics	GER	2	0	2	0	50	0
5	GE-123	Calculus and analytical Geometry	GER	3	0	3	0	100	0
6	GE-124	Mathematics-II	Deficiency Course	3	0	3	0	100	0
Total				12	3	12	9	350	150
Grand Total				15		21		500	

3rd Semester

S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-211	Data Structures	Core	3	1	3	3	100	50
2	AI-212	Database System	Core	3	1	3	3	100	50
3	AI-213	Artificial Intelligence	Core	2	1	2	3	50	0
4	MT-211	Multivariable Calculus	Math	3	0	3	0	100	0
5	GE-211	Expository Writing	GER	3	0	3	0	100	50
6	HUM-211/ GE-212	FAHM-E-QURAN-I/ Civics and Community Engagement-I.	GER	0	1	0	3	0	50
Total				14	4	14	12	450	200
Grand Total				18		26		650	

4th Semester

S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-221	Design and Analysis of Algorithms	Core	2	1	2	3	50	50
2	AI-222	Domain Core 1(Programming for AI)	Core	2	1	2	3	50	50
3	AI-223	Software Engineering	Core	3	0	3	0	100	0
4	AI-224	Computer Networks	Core	2	1	2	3	50	50
5	MT-221	Linear Algebra	Math	3	0	3	0	100	0
6	GE-221	Professional Practices	GER	2	0	2	0	50	0
7	HUM-221/ GE-222	FAHM-E-QURAN-II/ Civics and Community Engagement-II.	GER	0	1	0	3	0	50
Total				14	4	14	12	400	200
Grand Total				18		26		600	

5th Semester

S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-311	Operating Systems	Core	2	1	2	3	50	50
2	AI-312	Domain Core 2(Machine Learning)	Core	2	1	2	3	50	50
3	AI-313	Domain Core 3(Artificial Neural Networks and Deep Learning)	Core	2	1	2	3	50	50
4	AI-314	Domain Core 4(Knowledge Representation & Reasoning)	Core (NCEAC 2020)	3	0	3	0	100	0
5	MT-311	Probability & Statistics	Math	3	0	3	0	100	0
6	EW-311	Technical Report Writing	EW	3	0	3	0	100	0
Total				15	3	15	9	450	150
Grand Total				18		24		600	

6th Semester									
S. No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-321	Computer Vision	Core	2	1	2	3	50	50
2	AI-322	Computer Organization & Assembly Language	Core	2	1	2	3	50	50
3	AI-323	HCI (Human Computer Interaction)	Core	2	1	2	3	50	50
4	AI-324	Agent-Based Modeling	Core (2020 curriculum)	3	0	3	0	100	0
5	GE-321	Project Management	GER	3	0	3	0	100	0
Total				12	3	12	9	350	150
Grand Total				15		21		500	

7th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-411	Parallel & Distributed Computing	Core	2	1	2	3	50	50
2	AI-412	Information Security	Core (2020 curriculum)	3	0	3	0	100	0
3	AI-413	Natural Language Processing	Core (2020 curriculum)	2	1	2	3	50	50
4	AI-414	Knowledge-Based Systems	Core (2020 curriculum)	3	0	3	0	100	0
5	AI-415	Final Year Project – I	Core	0	2	0	6	0	100
6	SS-411	Social media and Digital Marketing	SS	3	0	3	0	100	0
Total				13	4	13	12	400	200
Grand Total				17		25		600	

8th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	AI-421	Final Year Project – II	Core	0	4	0	12	0	200
2	AI-422	Speech Processing	Core (2020 curriculum)	3	0	3	0	100	0
3	AI-423	Reinforcement Learning	Core	2	1	2	3	50	50
4	AI-424	GenAI (Generative AI)	Core (2025 HEC curriculum)	2	1	2	3	50	50
5	GE-421	Entrepreneurship	GER	2	0	2	0	50	0
Total				9	6	9	18	250	300
Grand Total				15		27		550	

DEPARTMENT OF MECHANICAL ENGINEERING TECHNOLOGY

The Department of Mechanical Engineering Technology (MET) is committed to adopting a practical and application-oriented approach to engineering education. The department focuses on developing strong technical, analytical, and problem-solving skills through the application of engineering principles and emerging technological advancements. Its primary objective is to equip students with the knowledge and expertise required to design, develop, and maintain useful products, systems, and machines that contribute to improving the quality of life and the socio-economic development of society.

The goal of the Department of Mechanical Engineering Technology is to provide students with a comprehensive, well-rounded, and industry-focused education that emphasizes the development of knowledge, practical skills, and professional attitudes in both established and emerging areas of Mechanical Engineering Technology.

The department offers a four-year Bachelor of Engineering Technology (Mechanical) degree program. The program is structured in accordance with the Outcome-Based Education (OBE) system and complies with the requirements of the National Technology Council (NTC) under the Sydney Accord framework. In the OBE system, all assessments, including quizzes, assignments, laboratory work, sessional examinations, and final examinations, are aligned with specific Course Learning Outcomes (CLOs) to ensure effective measurement of student learning and achievement.

The Bachelor of Engineering Technology (Mechanical) program consists of two phases. The first phase comprises seven academic semesters, during which students acquire theoretical knowledge and practical skills through classroom instruction, laboratory experiments, project-based learning, and industrial visits. The second phase consists of one semester (8th Semester) dedicated to Supervised Industrial/Field Training. During this period, students apply their acquired knowledge and technical competencies in real industrial environments, gaining valuable hands-on experience and professional exposure through placements in reputable national and multinational organizations.

To promote professional growth and technical excellence, the department has established a well-organized, student-centered chapter of the American Society of Mechanical Engineers (ASME). Society actively organizes seminars, workshops, technical trainings, short courses, and competitions, curricular and extracurricular activities that enhance students' professional development and foster a culture of innovation, leadership, and lifelong learning.

Graduates of the Mechanical Engineering Technology program are well-prepared to pursue careers in a wide range of industries, including but not limited to defense organizations such as Pakistan Army, Pakistan Navy, Pakistan Air Force (PAF), and Pakistan Ordnance Factories (POF); automobile industries including Toyota, Pak Suzuki, Honda, Nissan, and HinoPak; oil and gas companies such as OGDCL, SSGC, PPL, MPCL, and POL; power generation plants; transportation and communication sectors including Pakistan Railways, PIA, and CAA; process industries such as fertilizer, cement, sugar, chemical, and petrochemical industries; agricultural industries; shipbuilding and marine engineering sectors; heavy engineering organizations including Karachi Shipyard & Engineering Works and Heavy Mechanical Complex (HMC) Taxila; steel industries; and numerous other national and multinational organizations. Graduates also benefit from emerging employment opportunities associated with major infrastructure and industrial development projects under the China-Pakistan Economic Corridor (CPEC).

The Bachelor of Engineering Technology (Mechanical) program is accredited by the National Technology Council (NTC), Pakistan, and recognized by the Higher Education Commission (HEC) of Pakistan, ensuring that graduates meet nationally and internationally recognized standards of engineering technology education.

This version is suitable for a university prospectus, departmental profile, accreditation document, or website content.

Faculty of Mechanical Engineering Technology

S. No	Name with Qualification	Designation
1	Dr. Imdadullah Thaheem B.E (QUEST, Nawabshah), M.E (MUET Jamshoro), Ph. D (South Korea)	Associate Professor / Chairperson
2	Dr. Aftab Ahmed Soomro B.E (MUET Jamshoro), M.E (UET,Taxila),Ph.D (Malaysia)	Professor/ Dean (FoSD)
3	Engr. Abdul Shakoor Shaikh B.E (MUET Jamshoro), M.E (MUET Jamshoro)	Assistant Professor
4	Engr. Ayaz Ali Mandhan B.E (MUET Jamshoro),M.E(SAU Tandojam), Ph.D (on Study Leave)	Assistant Professor
5	Mr. Rukhsar Ali Mazari B.Tech (Hons) (MUET Jamshoro)	Lecturer
6	Engr. Ali Mustafa Shah B.E (QUEST), M.E (MUET Khairpur Mirs)	Lecturer
7	Engr. Abdul Qadir Channa B.E (QUEST), M.E (MUET Jamshoro), Ph.D (Study Leave)	Lecturer
8	Mr. Riaz Ahmed Arain B.Tech (Hons) (MUET Jamshoro)	Lecturer (on Contract)
09	Engr. Asmatullah Memon B.E (QUEST, Nawabshah), M.E (MUET Jamshoro)	Lecturer

Chairperson Message

Every age is the age of application of knowledge and skills to contribute in concerned field of interest. Technical education and skills are the specialized knowledge and expertise to perform a specific task by use of specific tools and programs to solve the real-world problems in all fields. It can open the doors of employability and enhance the living style of people.

Bachelor of Engineering Technology (Mechanical) program is the practical application of science and engineering in the field of Mechanical Technology to solve the broadly defined real world problems.

A professional graduate of mechanical engineering technologist's job responsibilities is to acquire technical knowledge with hands-on practical Skills. During and after graduation he/she can apply their abilities in using technical equipment to make the products used in daily life, selling technical products, serving as manufacturers' technical representatives, or supervising varied construction projects and manufacturing processes.

Program Vision:

The Program Vision of the Mechanical Engineering Technology is to be recognized globally as a Centre of Excellence which offers high quality education, technological knowledge and outreach activities with innovation and creativity in the field of Mechanical Engineering Technology.

Program Mission:

The mission of the Bachelor of Mechanical Engineering Technology Program is to produce competent graduates, by imparting academic knowledge, technical skills, hands-on experience, and industrial exposure, to make them employable and leading entrepreneurs, to achieve sustainable socio-economic development

Program Educational Objectives (PEOs) of Mechanical Engineering Technology

PEO 1: Graduates are able to apply knowledge of Mechanical Engineering Technology for identifying, addressing and solving broadly defined technological problems for socio-economic development.

PEO 2: Graduates be able to produce by their analytical and technological skills through state-of-the-art experimental work that empowers them for developing innovative ideas for technological and sustainable professional growth in mechanical and allied disciplines.

PEO 3: Graduates be able to demonstrate intellectual curiosity and actively pursue the acquisition of new skills and entrepreneurial abilities to contribute with ethical norms and commit to handle professional situations in their lives and work.

PLOs

PLO1: Engineering Technology Knowledge (SA1): An ability to apply knowledge of mathematics, natural science, Engineering Technology fundamentals and Engineering Technology specialization to define and applied Engineering Technology procedures, processes, systems or methodologies.

PLO2: Problem Analysis (SA2): An ability to Identify, formulate, research literature and analyze broadly-defined Engineering Technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.

PLO3: Design/Development of Solutions (SA3): An ability to design solutions for broadly- defined Engineering Technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PLO4: Investigation (SA4): An ability to conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions.

PLO5: Modern Tool Usage (SA5): An ability to Select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modelling, to broadly-defined Engineering Technology problems, with an understanding of the limitations.

PLO6: The Engineering Technologist and Society (SA6): An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to Engineering Technology practice and solutions to broadly defined Engineering Technology problems.

PLO7: Environment and Sustainability (SA7): An ability to understand and evaluate the sustainability and impact of Engineering Technology work in the solution of broadly defined Engineering Technology problems in societal and environmental contexts.

PLO8: Ethics (SA8): Understand and commit to professional ethics and responsibilities and norms of Engineering Technology practice

PLO9: Individual and Team Work (SA9): An ability to Function effectively as an individual, and as a member or leader in diverse teams.

PLO10: Communication (SA10): An ability to communicate effectively on broadly defined Engineering Technology activities with the Engineering Technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PLO11: Project Management (SA11): An ability to demonstrate knowledge and understanding of Engineering Technology management principles and apply these to one's own work, as a member or leader in a team and

LABORATORIES	WORKSHOPS
Digital Fabrication Lab	Machine Shop
CAD/CAM Lab	Fitting Shop
Engineering Mechanics Lab	Welding Shop
Mechanics of Machines Lab	Woodwork Shop
Hydraulic & Fluid Mechanics Lab	Foundry Shop
Thermodynamics Lab	Forging Shop
Mechanics of Materials Lab	Air Conditioning Workshop
Heating, Ventilation & Air Conditioning Lab	
Automobile Lab	
Fuel Testing Lab	
Technical Drawing Lab	
Mechanical Vibration Lab	
Heat & Mass Transfer Lab	

to manage projects in multidisciplinary environments.

PLO12: Lifelong Learning (SA12): An ability to recognize the need for, and have the ability to engage in independent and life-long learning in specialist Engineering Technologies.

Laboratories and Workshops

Labs Detail with pictures the department



Digital Fabrication Lab



Mechanical vibration Lab



HVAC Lab

Scheme of the Study

1st Year 1stSemester (1st Semester)										
S No	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	HUM-111	Islamic Studies	None	Humanities	2	0	2	0	50	00
	HUM-112	Ethics								
2	NSC-114	Applied Calculus and Analytical Geometry	None	Natural Science	3	0	3	0	100	00
3	NSC-112	Applied Physics	None	Natural Science	2	1	2	3	50	50
4	NSC-113	Applied Chemistry	None	Natural Science	2	1	2	3	50	50
5	CSC-111	Introduction to Computer and Information Technology	None	Computer Science	1	2	1	6	50	100
6	MET-111	Workshop Technology	None	Engineering Foundation	1	2	1	6	50	100
Total					11	6	11	18	350	300
Grand Total					17		29		650	
1st Year 2nd Semester (2nd Semester)										

S No	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	HUM-122	Pakistan Studies	None	Humanities	2	0	2	0	50	00
2	NSC-121	Linear Algebra and Differential Equations	Calculus and Analytical Geometry	Natural Science	3	0	3	0	100	00
3	EET-121	Basic Electrical and Electronics	None	Engineering Foundation	2	1	2	3	50	50
4	MET-121	Technical Drawing and Graphics	None	Engineering Foundation	1	2	2	6	50	100
5	MET-122	Applied Mechanics	None	Engineering Foundation	2	1	2	3	50	50
Total					10	4	11	12	300	200
Grand Total					14		23		600	

2nd Year 1st Semester (3rd Semester)										
S. No.	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	HUM-211	Communication Skills	None	Humanities	3	0	3	0	100	0
2	MET-211	CAD/CAM	Technical Drawing and graphics	Major based Breadth	0	2	0	6	0	100
3	MET-212	Basic Thermodynamics	None	Engineering Foundation	2	1	2	3	50	50
4	MET-213	Mechanics of Materials	None	Engineering Foundation	2	1	2	3	50	50
5	MET-214	Industrial Materials	None	Engineering Foundation	2	1	2	3	50	50
6	MET-215	Total Quality Management	None	Management Science	2	1	2	3	50	50
Total					11	6	11	18	300	300
Grand Total					17		29		600	

2nd Year 2nd Semester (4th Semester)										
S. No.	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	HUM-221	Technical Writing	Communication Skills	Humanities	3	0	3	0	100	00
2	NSC-221	Probability and Statistics	None	Natural Science	3	0	3	0	100	00
3	MET-221	Mechanics of Machines	None	Major based Breadth	2	1	2	3	50	50
4	MET-222	Applied Thermodynamics	Basic Thermodynamics	Major based Breadth	2	2	2	6	50	100
5	MET-223	Fluid Mechanics and Hydraulic Machines	None	Major based Breadth	2	2	2	6	50	100
Total					12	5	12	15	350	250
Grand Total					17		27		600	

S. No.	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	MET-311	Heat and Mass Transfer	Basic Thermodynamics	Major based Depth	2	1	2	3	50	50
2	MET-312	Instrumentation and Control	Electrical Technology	Major based Depth	2	1	2	3	50	50
3	MET-313	Machine Design	Mechanics of Machine	Major based Depth	2	1	2	3	50	50
4	MET-314	Manufacturing Processes	None	Major based Depth	1	2	1	6	50	100
5	MET-315	Mechanical Vibration	None	Major based Depth	2	1	2	3	50	50
6	MET-316	Health Safety & Environment	None	Engineering Foundation	2	1	2	3	50	50
Total					11	7	11	21	300	350
Grand Total					18		32		650	

3rd Year 2nd Semester (6th Semester)

S. No.	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	MGM-321	Project Management	None	Management Science	2	1	2	3	50	50
2	MGM-322	Professional Ethics	None	Management Science	3	0	3	0	100	0
3	MET-322	Introduction to Automotive Systems	None	Major based Depth	2	1	2	3	50	50
4	MET-323	Heating, Ventilation & Air Conditioning (HVAC)	None	Major based Depth	2	1	2	3	50	50
5	MET-324	Energy Systems Technology	None	Major based Depth	2	1	2	3	50	50
6	MET-325	Project part-I	None	Major based Depth	0	3	0	9	0	100
Total					12	6	11	21	300	300
Grand Total					18		32		600	

4th Year 1st Semester (7th Semester)

S. No.	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Weekly Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	MGM-411	Entrepreneurship	None	Management Science	3	0	3	0	100	0
2	MET-411	Mechatronics	Instrumentation and Control	Major based Depth	2	1	2	3	50	50
3	MET-412	Maintenance Technology	None	Major based Depth	2	1	2	3	50	50



4	MET-413	Advanced Manufacturing Technology	Manufacturing Processes	Major Depth	based	2	1	2	3	50	50
5	MET-325	Project part-II	None	Major Depth	based	0	3	0	9	0	100
Total						9	6	9	18	250	250
Grand Total						15		27		500	

4th Year 2nd Semester 8th Semester										
S No	Course Code	Subject	Pre-requisite	Nature	Credit Hours		Contact Hours		Marks	
					TH	PR	TH	PR	TH	PR
1	MET-421	16 Weeks Supervised Industrial / Field Training	None	(8x5=40 Hrs / Week)	0	16	0	640	00	800
Total					0	16	0	640	00	800
Grand Total					16		640		800	
Distribution of 800 Marks										
Training Performance									600	
Viva Voce									200	
Further Details of Distribution of Marks of Training Performance										
Student Report									200	
Industrial Trainer									350	
Industrial Visit by Academic Supervisor									200	
Viva Voce									50	
Grand Total									800	

Grand Total **800**

Program Duration

The duration of program is 4 Years including six months Supervised Industrial Training (SIT) of 8th Semester.

DEPARTMENT OF BASIC SCIENCES & RELATED STUDIES

With the emerging market demands, the Bachelor of Engineering Technology and Bachelor of Science departments are crucially complemented by the vital education of Basic Sciences & Related Studies. These include Pakistan Studies, Islamic Studies, Mathematics, Physics, Chemistry, Computer Science, Management Science and English. The courses are customized to align the departments with the Basic Sciences & Related Studies.

As industrial market has made the incorporation of broad development consistent with holistic understanding, it has been ensured to develop specific know-how over one's particular area of specialization. The fundamentals of Mathematics, Chemistry and Physics optimize the capability of students while understanding Information Technology (IT) and Management Sciences magnify academic and professional accomplishments.

The English Language, an international means of communication, is accorded great importance, considering all the courses having the medium of English language. The courses are tailored to meet the standards of indigenous as well as global demands. Special emphasis is placed upon refining, enhancing and grooming the communication skills which aptly necessitate grasping four fundamental skills evolving from Listening Skills, Reading Skills, Writing Skills, and Speaking Skills. Attributes, like personal, social and professional development, are inculcated to broaden the horizon so that the engineering technologists must become more effective and bankable in the competition-driven markets.

Similarly, Technical Writing holds a pivotal role to integrate the skills learnt from technology-centric courses to practically comply with formal professional writing. It is believed that technical knowledge is best utilized when it is harmonized with the English Language at par with the modern standards.

The department has a well-qualified diligent faculty engaged in enabling the graduates to acquire not only technical education but also practical academic understanding for their personal development and professional success.

The Department of Basic Sciences & Related Studies is currently equipped with the following state-of-the-art labs:

- Physics Lab
- Chemistry Lab
- English language Lab
- Computer Lab

Faculty Members

S.No	Name with Qualification	Designation
1	Dr Mushtaque Ahmed Memon MSc (Physics) U.S Jamshoro, Ph,D (Material Science & Engineering) China	Chairperson
2	Mr. Hareesh Kumar Kataria B.S (Mathematics) SALU, M.S (Mathematics) Sukkur IBA	Lecturer
3	Mr. Kashif Ali Dharejo B.S, M.S (Mathematics) SALU	Lecturer
4	Mr. Syed Abul Qasim Shah B.B.A (Finance), M.B.A (Marketing) Sukkur IBA	Lecturer
5	Mr. Sanaullah Janvari B.S (Inorganic Chemistry), MPhil (Analytical Chemistry) U.S Jamshoro.	Lecturer
6	Mr. Arif Zia Memon M.A , M.Phil. (Pak Studies) SALU	Lecturer
7	Mr. Bilawal Hussain Magsi M.A (Islamic Culture), M. Phil (Islamic Studies) SALU	Lecturer
8	Mr. Abdul Qadeer Leghari M.Sc. (Physics) U.S Jamshoro , M.Phil (in progress)	Lecturer

9	Ms. Syeda Kanwal Naqvi M.Phil (HRM) SALU, PhD (in progress)	Jr. Instructor
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Vision

” To lead in foundational science and humanities education that fosters academic excellence, ethical values and community empowerment”

Mission

” To provide quality education in basic sciences and humanities that develops analytical, ethical and interdisciplinary skills for success in academic, technology and leadership.

Brief Introduction of The Department

The Department of Basic Sciences and Related Studies (BSRS) at the Benazir Bhutto Shaheed University of Technology and Skill Development (BBSU-TECH) is a cornerstone of academic excellence, fostering a holistic approach to education. The Department of BSRS plays a pivotal role in shaping well-rounded graduates. Comprising a diverse faculty, BSRS covers a spectrum of subjects, including natural and social sciences, arts and humanities, quantitative reasoning, Islamic studies, Pakistan studies and entrepreneurship. BSRS offers a comprehensive curriculum that equips students pursuing degrees in Bachelor of Engineering Technology, Bachelor of Science, Bachelor of Studies and Information Technology. By addressing mathematical challenges and enhancing communication skills, the department prepares graduates for success in their professional endeavors. Recognizing the evolving demands of the job market, BSRS emphasizes both technical and soft skills. Graduates emerge not only with technical expertise but also with effective communication, critical thinking and problem-solving abilities. The department ensures alignment with accreditation bodies requirements ensuring that graduates meet industry standards. Whether it's understanding the intricacies of natural phenomena or appreciating the nuances of entrepreneurship, BSRS fosters a well-rounded education.

In summary, BSRS stands as a bridge between theoretical knowledge and practical application, nurturing competent professionals who contribute meaningfully to society.

The department of Basic Sciences & Related Studies is currently equipped with the following labs:

1. Physics Lab
2. Chemistry Lab
3. Computer Lab (Shared)

List of Courses Taught by BSRS in Different Program

Course Title	Program	Credit Hours
Applied Physics	B.E(tech) Mechanical, Electrical, Electronics, Civil and BS Computer Science, BS Artificial Intelligence	2+1
Applied Chemistry / Chemistry	B.E(tech) Mechanical, BS Physics	2+1
Calculus and Analytical Geometry	B.E(tech) Mechanical, B.E(tech) Electrical, B.E(tech) Electronics, B.E(tech) Civil and BS Computer Science, BS Artificial Intelligence and BS Physics	3+0
Islamic Studies / Ethics	B.E(tech) Mechanical, B.E(tech) Electrical, B.E(tech) Electronics, B.E(tech) Civil and BS Computer Science, BS Artificial Intelligence, BS English and BS Physics	2+0



Discrete Structure	BS Computer Science and BS Artificial Intelligence	3+0
Linear Algebra & Differential Equations	B.E(tech) Mechanical, B.E(tech) Electrical, B.E(tech) Electronics, B.E(tech) Civil and BS Computer Science, BS Artificial Intelligence and BS Physics	3+0
Pakistan Studies	B.E(tech) Mechanical, B.E(tech) Electrical, B.E(tech) Electronics, B.E(tech) Civil and BS Computer Science, BS Artificial Intelligence, BS English and BS Physics	2+0
Complex Variable and Transform	B.E(tech) Electronics	3+0
Probability & Statistics	B.E(tech) Mechanical and BS Computer Science, BS Artificial Intelligence	3+0
Introduction to Management	BS Computer Science	3+0
Numerical Analysis	B.E(tech) Electrical, BS Computer Science	2+1
Entrepreneurship	B.E(tech) Mechanical, B.E(tech) Electrical, B.E(tech) Electronics, B.E(tech) Civil and BS Computer Science, BS Artificial Intelligence and BS Physics	2+0

BS ENGLISH PROGRAM

The English language plays a vital role in academic, professional, and personal development. The Department of English at Benazir Bhutto Shaheed University of Skills Development is committed to delivering quality education that strengthens students' linguistic competence, critical thinking, and communication skills. The program aims to develop proficiency in spoken and written English while providing a strong foundation in English literature and linguistics, preparing graduates for diverse academic and professional opportunities.

Vision:

To become a center of excellence in English language, literature, and linguistics by fostering academic distinction, ethical values, critical inquiry, creativity, and lifelong learning. The department aspires to equip students with the knowledge, skills, and confidence required to respond effectively to emerging global challenges and to contribute meaningfully to society through scholarship and effective communication.

Mission:

To educate and inspire students and emerging scholars through high-quality teaching, innovative learning, and research in English language and literature. The department strives to enhance communication skills, encourage intellectual curiosity, promote research culture, and develop socially responsible graduates capable of contributing positively to national and international levels.

Objectives:

To provide comprehensive knowledge of English language, literature, and linguistics while nurturing intellectual growth, ethical values, and effective communication skills.

To cultivate critical, analytical, and creative thinking that enables students to pursue truth, solve problems, conduct research, and engage with diverse perspectives.

To promote integrity, professionalism, respect, and responsible citizenship by developing sound moral values and ethical behavior alongside academic excellence.

FACULTY OF BS ENGLISH DEPARTMENT

Scheme of Studies

1st Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	GC-101	Study Skills	General Compulsory (Foundational)	3	0	3	0	100	0
2	GC-102	Introduction to Computer Information Technology (CIT)	General Compulsory (Foundational)	3	1	3	3	100	50
3	GC-103	Islamic Studies	General Compulsory (Foundational)	2	0	2	0	50	0
4	ELL-101	English 1 Functional English	English Language and Literary (Foundational)	3	0	3	0	100	0

5	ELL-102	Introduction to Literature	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
6	ELL-103	Introduction to Linguistics	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
Total				17	1	17	3	550	50
Grand Total				18		20		600	

2nd Semester

S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	GC-104	Pakistan Studies	General Compulsory (Foundational)	2	0	2	0	50	0
2	GC-105	Elementary Mathematics	General Compulsory (Foundational)	3	0	3	0	100	0
3	GC-106	Introduction Psychology	General Compulsory (Foundational)	3	0	3	0	100	0
4	ELL-104	English 2 Expository Writing	English Language and Literary (Foundational)	3	0	3	0	100	0
5	ELL-105	Introduction to Phonetics and Phonology	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
6	ELL-106	Literary Forms and Movements	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
Total				17	0	17	0	550	0
Grand Total				17		17		550	

3rd Semester

S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	GC-201	Introduction to Information and Computer Technology (CIT) Skills	Foundational	2	1	2	3	50	50
2	GC-202	Islamic History and Culture	General	3	0	3	0	100	0
3	GC-203	Global Poetry	General	3	0	3	0	100	0
4	ELL-201	English 3 Communication and Presentation Skills	Foundational	3	0	3	0	100	0
5	ELL-202	Short Fictional Narratives	Subject-specific	3	0	3	0	100	0
6	ELL-203	Introduction to Morphology	Subject-specific	3	0	3	0	100	0
Total				17	1	17	3	550	50
Grand Total				18		20		600	

4th Semester

S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours	Contact Hours/Week			Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	GC-204	Human Rights and Citizenship	Compulsory General (Foundational)	3	0	3	0	100	0
2	ELL-204	English 4 Academic Reading and Writing	English Language and Literary (Foundational)	3	0	3	0	100	0
3	ELL-205	Classical and Renaissance Drama	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
4	ELL-206	Classical Poetry	English Language and Literary (Subject-Specific Foundational)	3	0	3	0	100	0
5	ELL-207	Semantics	English Language and Literary () Subject-Specific Foundational	3	0	3	0	100	0
6	ELL-208	Introduction to Syntax	English Language and Literary () Subject-Specific Foundational	3	0	3	0	100	0
Total				18	0	1	0	600	0
Grand Total				18	18			600	

BS PHYSICS PROGRAM

Vision

To empower students with a deep understanding of the physical world, fostering critical thinking, innovation, and global citizenship. Our graduates will be equipped not only with scientific knowledge but also with an entrepreneurial mindset to address real-world challenges. Through cutting-edge research and community engagement, we aim to contribute to technological advancements and positively impact *society*.

Mission

Our mission is to equip students with a strong foundation in physics, foster critical thinking and cultivate an entrepreneurial spirit. Through high-quality teaching, research and ethical values, we prepare graduates to lead globally and contribute to technological advancements.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs) OF THE BS PHYSICS PROGRAM

PEO-1 To impart students with a conceptual understanding of the fundamental principles of physics, natural laws and their interpretation, as well as mathematical formulation of the physical phenomena in nature.

PEO-2 To develop critical skills necessary for solving unknown problems from our physical surroundings.

PEO-3 To develop the capability of analyzing, addressing and posing solutions to problems of natural importance and to instill a deep appreciation of the need for optimum utilization of natural resources and environment.

PEO-4 To instill in students the habit of independent thinking, deep inquiry, and motivation for self-education.

PEO-5 To sharpen our students' mathematical prowess making them capable of modelling, analyzing and predicting the behavior of physical processes.

PEO-6 To enhance our students' skills in scientific communication and the ability to clearly present physics and science in simple and clear language.

PEO-7 To introduce to students the spirit of working in interactive groups with the necessary requirements of scientific and professional ethics.

PEO-8 To develop hands-on experience in different laboratory techniques, modern instrumentation.

PEO-9 To enhance student competence in the design and conduct of experiments and analysis and presentation of experimental data and results.

PEO-10 To provide an in-depth understanding of some specialized area of physics through the option of elective courses.

PEO-11 To equip students with the necessary skill set for pursuing careers in physics education, research and industry in government or private organizations.

Brief Introduction of the Bs Physics Program

The Department of Basic Sciences and Related Studies at BBS-UTECH is proud to introduce the Bachelor of Science (BS) program in Physics, starting from the 2024 batch. This four year (8 semesters) undergraduate program equips students with a solid foundation in fundamental physics principles. Beyond academic knowledge, our core aim is to instill a behavioral change in our students. We encourage personal development, fostering benefits not only the individual but also the broader community. Our faculty of well-



qualified and dynamic teachers is committed to achieving our goals. They inspire students to excel and contribute to pioneering studies. All our activities revolve around achieving excellence through boundary pushing inquiries. We impart both broad and deep knowledge in physics, equipping students for impactful careers.

Our program aims to nurture critical thinking, quantitative reasoning and creativity among students. Whether they aspire to pursue teaching, industrial or further studies, our BS Physics program prepares them for success in a dynamic scientific landscape.

The BS Physics Program has following well-equipped laboratories:

- Mechanics and Optics Lab
- Heat and Thermodynamics Lab
- Electromagnetism and Electronics Lab
- Computer Lab

Faculty of Bs Physics Program

Scheme of Studies

Sr. No	Name with Qualification			Designation					
1	Dr Mushtaque Ahmed Memon MSc (Physics) U.S Jamshoro, PhD (Material Science &Engineering) China			Lecturer / Chairperson (In-charge)					
2	Mr. Abdul Qadeer Leghari M.Sc. M. Phil (Physics) U.S Jamshoro			Lecturer (Physics)					
3	Mr. Hareesh Kumar Kataria B.S (Mathematics) SALU, M.S (Mathematics) Sukkur IBA			Lecturer (Mathematics)					
4	Mr. Kashif Ali Dharejo B.S, M.S (Mathematics) SALU			Lecturer (Mathematics)					
5	Mr. Syed Abul Qasim Shah B.B.A (Finance), M.B.A (Marketing) Sukkur IBA			Lecturer (Management Science)					
6	Mr. Arif Zia Memon M.A, M.Phil. (Pak Studies) SALU			Lecturer (Pakistan Studies)					
7	Mr Bilawal Hussain Magsi M.A (Islamic Culture) , M.Phil (Islamic Studies) SALU			Lecturer (Islamic Studies)					
1st Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/ Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ENG-111	Functional English	Comp-1	3	0	3	0	100	0
2	MTH-111	Calculus	Comp-2	3	0	3	0	100	0
3	CSC-111	Introduction to Computing	Comp-3	2	1	2	3	50	50
4	PST-111	Pakistani Studies	Comp-4	2	0	2	0	50	0
5	PHY-111	Mechanics-I	Found-1	2	0	2	0	50	0
6	PHY-112	Waves and Oscillations	Found-2	3	0	3	0	100	0
7	PHY-113	Lab Course-I (Mechanics)	Found-3	0	1	0	3	0	50
8	MTH-110	Introduction to Mathematics (For Pre-Medical Students)	Deficiency course						
Total				15	2	15	6	450	100
Grand Total				17		21		550	

2nd Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	CSC-121	Programming Fundamentals	Comp-5	2	1	2	3	50	50
2	MTH-121	Differential Equations	Gen - 1	3	0	3	0	100	0
3	PHY-121	Mechanics - II	Found-4	2	0	2	0	50	0
4	PHY-122	Heat & Thermodynamics	Found-5	3	0	3	0	100	0
5	ISL-121	Islamic Studies	Comp-6	2	0	2	0	50	0
6	CHM-121	General Chemistry	Gen - 2	2	1	2	3	50	50
7	PHY-123	Lab Course-II (Heat and Thermodynamics)	Found-6	0	1	0	3	0	50
Total				14	3	14	9	400	150
Grand Total				17		23		550	

3rd Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ENG-211	Communication Skills	Comp-7	3	0	3	0	100	0
2	MTH-211	Linear Algebra	Gen-3	3	0	3	0	100	0
3	PHY-211	Electricity and Magnetism - I	Found-7	2	0	2	0	50	0
4	PHY-212	Modern Physics	Found-8	3	0	3	0	100	0
5	CSC-211	Introduction to Artificial intelligence	Gen-4	3	0	3	0	100	0
6	PHY-213	Lab Course-III (Electricity and Magnetism)	Found-9	0	1	0	3	0	50
Total				14	1	14	3	450	50
Grand Total				15		17		500	

4th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	ENG-221	Academic report writing	Comp-8	3	0	3	0	100	0
2	PHY-221	Electricity and Magnetism - II	Found - 10	2	0	2	0	50	0



3	MTH-221	Probability & Statistics	Gen-5	3	0	3	0	100	0
4	PHY-222	Optics	Found 11	3	0	3	0	100	0
5	ENS-221	Introduction to environmental science	Gen-6	3	0	3	0	100	0
6	PHY-223	Lab Course-IV (Optics)	Found 12	0	1	0	3	0	50
Total				14	1	14	3	450	50
Grand Total				15		17		500	

5th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	PHY-311	Mathematical Methods of Physics-I	Major-1	3	0	3	0	100	0
2	PHY-312	Electrodynamics-I	Major-2	3	0	3	0	100	0
3	PHY-313	Classical Mechanics	Major-3	3	0	3	0	100	0
4	PHY-314	Electronics-I	Major-4	3	0	3	0	100	0
5	PHY-315	Statistical Physics	Major-5	3	0	3	0	100	0
6	PHY-316	Lab Course – V (Electronics)	Major-6	0	2	0	6	0	100
Total				15	2	15	6	500	100

6th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	PHY-321	Mathematical Methods of Physics II	Major-7	3	0	3	0	100	0
2	PHY-322	Quantum Mechanics-I	Major-8	3	0	3	0	100	0
3	PHY-323	Electrodynamics-II	Major-9	3	0	3	0	100	0
4	PHY-324	Electronics-II	Major-10	3	0	3	0	100	0
5	PHY-325	Nuclear Physics	Major-11	3	0	3	0	100	0
6	PHY-326	Lab Course-VI (Modern Physics)	Major-12	0	2	0	6	0	100
Total				15	2	15	6	500	100
Grand Total				17		21		600	

7th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	PHY-411	Quantum Mechanics-II	Major-13	3	0	3	0	100	0
2	PHY-412	Atomic & Molecular Physics	Major-14	3	0	3	0	100	0
3	PHY-413	Solid State Physics-I	Major-15	3	0	3	0	100	0
4	PHY-414	Digital Electronics	Elective-1	3	0	3	0	100	0
5	PHY-415	Solid State Physics-II	Major-16	3	0	3	0	100	0
6	PHY-416	Lab Course-VII (Miscellaneous experiments in atomic physics, solid state physics, electronic materials)	Major-17	0	2	0	6	0	100
Total				15	2	15	6	500	100
Grand Total				17		21		600	

8th Semester									
S.No	Course Code	Course Title	Knowledge Area/Domain	Credit Hours		Contact Hours/Week		Total Marks	
				Th	Pr	Th	Pr	Th	Pr
1	PHY-421	Fluid Dynamics	Elective-2	3	0	3	0	100	0
2	PHY-422	Introduction to nanoscience and nanotechnologies	Elective-3	3	0	3	0	100	0
3	PHY-423	Research Project	Major-18	0	3	0	9	0	150
4	MGM-421	Entrepreneurship		3	0	3	0	100	0



5	PHY-424	Computational Physics	Elective-4	3	0	3	0	100	0
Total				12	3	12	9	400	150
Grand Total				15		21		550	

Note: Research Project will be allotted in 7th semester. However, the credit hours for research projects will only be counted towards 8th semester.

QUALITY ENHANCEMENT CELL (QEC)

The Quality Enhancement Cell (QEC) at the BBS-UTECH, Khairpur Mirs has been established in accordance with the Quality Assurance (QA) Framework of the Higher Education Commission (HEC), Pakistan. The QEC serves as the University's Central Quality Assurance Unit and is committed to promoting a culture of Quality, Accountability, Transparency, and continuous improvement in teaching, learning, research, governance, and community engagement in line with the Pakistan Standards and Guidelines for Quality Assurance in Higher Education (PSG-2023).

The QEC is responsible for ensuring that the University's academic programs, institutional processes, and support services meet national Quality Standards while enhancing public confidence in the quality and credibility of the degrees awarded by BBS-UTECH.

Functions of the Quality Enhancement Cell

The QEC performs the following key functions:

- Promote and strengthen a culture of continuous quality enhancement throughout the University in accordance with the **HEC Quality Assurance Framework and PSG-2023**.
- Monitor, review, and enhance the quality standards of all academic programs and the degrees awarded by the University.
- Ensure that institutional quality assurance practices safeguard and enhance public confidence in the University's academic standards.
- Coordinate and review **Self-Assessment Reports (SARs)** prepared by academic departments in accordance with the requirements of the relevant accreditation councils, HEC guidelines, and the **Program Review for Enhancement and Effectiveness (PREE)** framework.
- Coordinate and facilitate **Self-Review of Institutional Performance and Enhancement (Self-RIPE)** and **Self-Postgraduate Program Reviews** to evaluate institutional and program-level quality and support continuous improvement.
- Facilitate curriculum review and continuous program improvement in collaboration with the **Board of Studies (BoS)**, **Curriculum Review Committees (CRC)**, and relevant academic bodies.
- Organize Quality Assurance Awareness Sessions, Workshops, Seminars, and Capacity-Building Programs for faculty and administrative staff.
- Coordinate with the **HEC Quality Assurance Agency (QAA)**, Accreditation Councils, and National and International Quality Assurance Organizations on quality-related initiatives and reporting requirements.
- Prepare and submit institutional quality assurance reports, including the **Yearly Progress Report (YPR)** and other reports required by HEC.
- Support the University in Accreditation, Institutional Reviews, National and International Rankings, and other quality enhancement initiatives.
- Facilitate the Charter Inspection & Evaluation Committee (**CIEC**) visits by Sindh HEC.

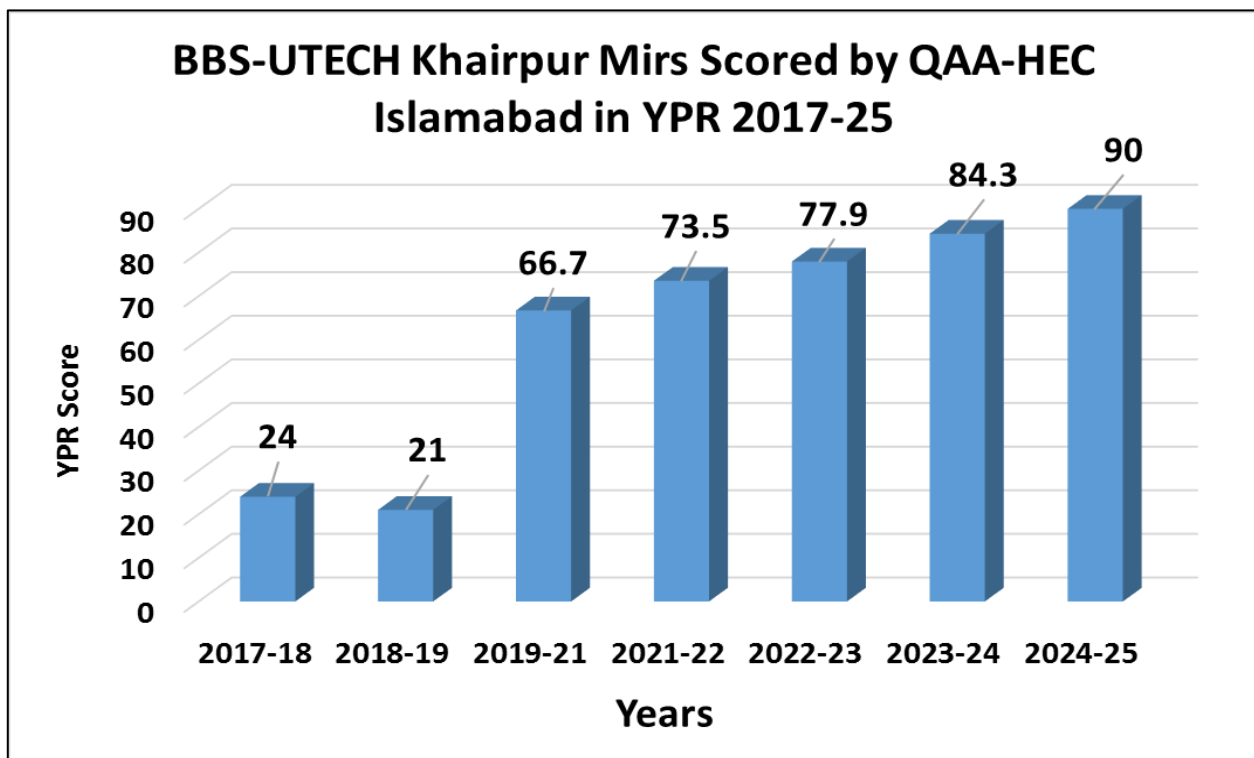
The QEC staff regularly participate in **HEC-organized capacity-building programs** and professional development activities to remain abreast of emerging National and International Quality Assurance practices and to effectively implement them across the University.

Online Quality Assurance System

The QEC has developed an **Online Feedback and Evaluation Portal** to facilitate the collection and analysis of stakeholder feedback and the conduct of institutional evaluations. The portal supports evidence-based Quality Assurance by enabling Online Course Evaluations, Teacher Evaluations, Graduate and Employer Surveys, Alumni Feedback, Student Satisfaction Surveys, and other Quality Assessment activities.

Achievement

The Quality Enhancement Cell of BBS-UTECH, Khairpur Mirs has consistently demonstrated its commitment to quality assurance and institutional excellence. In recognition of its effective implementation of the HEC Quality Assurance Framework, reflecting strong compliance with



national quality standards and a sustained commitment to continuous quality enhancement.

CAREER COUNSELING AND ALUMNI AFFAIRS

The Career Counseling & Alumni Affairs office helps students and alumni to achieve lifelong professional success by offering career counseling and advisories for selecting a suitable career path. The office coordinates industry for internships and jobs placement of graduating students and alumni.

University-Industry Linkages Office

University-Industry linkages Office serves as point of contact for industry, small and medium enterprises (SMEs), corporations, companies, government its Institutions and allied departments, corporate, and social sector of the country and abroad. The University-Industry Linkages (UIL) Office primarily focuses on bridging gap between Academia and Industry.

Marketing & Outreach Office

The Marketing and Outreach Office identifies needs, develops concepts to meet the identified needs, and communicates it to intended audience. To strategize marketing and outreach for aforementioned objectives, Office of Marketing & Outreach under the umbrella of Career Development Center takes the leading role. Marketing & Outreach Office outreach talented students by carrying outreach programs and awareness drives in various parts of the country.

Student Financial Aid Office

Student Financial Aid Office (SFAO) is dedicated to elevating the socio-economic suitability of the needy & meritorious students by providing access to quality education through need and merit-based scholarships, financial assistance, and interest free educational Loans. The SFAO ensures that no student should leave the university only due to financial constraints. Currently, Student Financial Aid Office at Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs managing and offering following

- BBS-UTECH Merit Scholarship
- Ehsaas Undergraduate Scholarship Program
- HEC Need-Based Scholarship Program
- Sindh HEC Merit-Cum-Need Scholarship Program
- Sindh Educational Endowment Fund Scholarship Program
- Punjab Educational Endowment Fund Scholarship Program
- Institutional Need-Cum-Merit Scholarship Program
- Khairpur District Need-Cum-Merit Scholarship Program

SPORTS / CO. CURRICULAR COMMITTEE

Sports Section Office

The Sports Section Office at Benazir Bhutto Shaheed University of Technology and Skill Development in Khairpur Mirs plays a pivotal role in enriching the campus life of our students. Committed to promoting physical wellness, teamwork, and competitive spirit, the office organizes a variety of sports and recreational activities. Our aim is to cultivate a dynamic environment where students can excel both academically and athletically, ensuring balanced and holistic development during their time at the university.

Games Offered:

- Cricket
- Volleyball
- Tug of War
- Badminton
- 100-meter Race
- Dart Board
- Arm wrestling
- Shot put
- Ludo
- Fun Games



Annual Celebrations:

Every year, our campus comes alive with thrilling sporting events that bring together students from all disciplines. These events include:

SpoCo-Fest: A celebration of sportsmanship and skill where students showcase their prowess in various disciplines.

Solidarity Trophy: A symbol of unity and camaraderie, where teams compete passionately to win the prestigious trophy.

Freedom Trophy: Marking our nation's independence with fervor and sporting spirit, this event is a testament to our patriotic zeal.

The Sports Section Office provides top-notch facilities, expert coaching, and organizes regular events and competitions. This ensures that every student has the opportunity to engage in their favorite sports, develop new skills, and maintain a healthy and active lifestyle.

Students Participation in Sports event.



Students from Benazir Bhutto Shaheed University of Technology and Skill Development (BBSUTECH), Khairpur Mirs, proudly participated in the Prime Minister's University Sports Olympiad held at the Pakistan Sports Complex, Islamabad. The event, organized by the Prime Minister's Youth Program and HEC, featured over 5,000 athletes from 46 universities competing in 12 sports. BBSU-TECH's participation reflects its commitment to promoting student development, teamwork, and national unity through extracurricular engagement.

Few glimpses of Sport activities at BBS-UTECH Khairpur Mirs.





Sports Section Office Bearers



ADMISSION RULES & REGULATIONS (POLICY GUIDELINES)

ELIGIBILITY CRITERIA- ADMISSION SESSION 2026-27

For admission to the Bachelor of Engineering Technology/BS Programs, the candidates must fulfil one of the following requirements with a minimum of 50% Marks:

Three years Diploma of Associate Engineer in the relevant field from Sindh Board of Technical Education, Karachi / other Technical Boards

H.S.C.(Pre-Eng/Pre-Medical) or equivalent from the Board of Intermediate Education.

The candidate has to appear in Pre – Admission Test Conducted by the University

UNDERGRADUATE PROGRAMME		
Bachelor of Engineering Technology/ BS Program	Duration	Eligibility / Criteria
Civil Engineering Technology	4-Year	HSc (pre-engineering) or equivalent, min. 50% marks; OR HSc (pre-medical), min. 50% marks OR 3-Year Diploma of Associate Engineer, min. 50% marks.
Electrical Engineering Technology		
Electronics Engineering Technology		
Mechanical Engineering Technology		
Robotics & AI Engineering Technology		
BS Computer Science	4-Year	HSc (pre-engineering) or equivalent, min. 50% marks; OR HSc (pre-medical), min. 50% marks OR 3-Year Diploma of Associate Engineer, min. 50% marks.
BS Artificial Intelligence		
BS English	4-Year	HSC (Pre-Eng., Pre-Med. or equivalent), Intermediate in Arts / Commerce / Computer Science; OR 3-Year DAE in any discipline.
BS Physics	4-Year	HSc (pre-engineering) or equivalent, min. 50% marks; OR HSc (pre-medical), min. 50% marks OR 3-Year Diploma of Associate Engineer, min. 50% marks.

10% reserved quota for female candidates is allocated. (Female candidates are encouraged to apply).

Hostel and Transport facilities for the students (Boys and Girls) are also available.

APPLICATION FORM FOR ADMISSION

Online Admission Forms for the **Academic Session 2026–27** are available through the official Admission Portal of **BBSU-TECH, Khairpur Mirs**.

Admission Portal: admissions.bbsutech.edu.pk

GUIDELINES FOR CANDIDATES APPLYING FOR ADMISSION – SESSION 2026–27

Candidates are advised to carefully read and follow the instructions given below while completing the online admission application.

In case of any difficulty or technical issue while completing or uploading the online Admission Form, candidates may contact the **Directorate of Admissions** through the following contact details:

PTCL: 0234-687059
Mobile: 0333-7591475 — **Riaz Ahmed Arain, Director Admissions**
Mobile: 0313-5452256 — **Mr. Din Muhammad, Clerk, Admission Desk**
Email: director-admission@BBSU-TECH.edu.pk

DOCUMENTS REQUIRED FOR ONLINE REGISTRATION

Candidates are required to upload clear, legible, scanned copies of their **original documents** on the Admission Portal of BBSU-TECH, Khairpur Mirs, at the time of online registration.

Important: The important admission dates shall be announced through the official website and official social media platforms of the University. Candidates are advised to regularly check these platforms for updates and announcements.

INSTRUCTIONS FOR FILLING OUT THE ONLINE ADMISSION FORM

1. Click on the “Register” button to create an account. The candidate's CNIC or B-Form number will be used as the username.
2. Log in using the assigned username and password and complete the online Admission Form carefully.
3. Upload clear and legible scanned copies of the original documents required for the respective program.
4. Print the prescribed Bank Challan and deposit the application fee at any branch of Habib Bank Limited (HBL).
5. After payment, upload a clear copy of the paid Bank Challan through the online Admission Portal.
6. Upon successful completion of the registration process, the Admit Card will be generated automatically and will be made available for download after the closing date of online application submission.
7. Candidates must print the Admit Card and bring it with them on the date of the Pre-Admission Test.
8. Candidates are required to provide valid and active mobile phone numbers. All-important instructions, notifications, and admission-related announcements will be communicated through the contact numbers provided.
9. Candidates must ensure that all required documents are uploaded before the prescribed deadline. Applications with incomplete documentation or without the required documents uploaded within the due date shall not be considered for admission.
10. After submission of the online Admission Form, candidates are advised to wait for further instructions and announcements from the University.

Documents Required for Admission To Bachelor Of Science / Bachelor Of Engineering Technology Programs

Candidates are required to upload clear and legible scanned copies of the following original documents:

- CNIC / B-Form of the candidate
- Domicile
- Permanent Residence Certificate (PRC)
- Matriculation Marks Certificate
- Intermediate / DAE or equivalent Marks Certificate
- **Note:** Candidates awaiting the results of HSC/Intermediate or DAE examinations are exempted from submitting the Intermediate/DAE Marks Certificate at the time of online registration. However, they shall be required to submit the relevant Marks Certificate immediately after the declaration of results.

PRE-ADMISSION TEST

- All eligible candidates are required to appear in the **Pre-Admission Test** conducted by the University.
- Candidates applying under any **reserved quota** shall also be required to appear in the Pre-Admission Test.

INTERVIEWS AND ADMISSION

- Candidates shortlisted for admission shall be required to appear before the **Admission Committee** for an interview and verification of their original documents. Admission shall be granted to candidates strictly in accordance with the University's approved admission criteria, merit, and applicable rules and regulations.

REGISTRATION AND ADMISSION TEST FEE

- **Application / Registration and Admission Test Fee: Rs. 2,000/-**

Rupees Two Thousand only

- The prescribed fee shall be deposited through the **HBL Bank Challan** at the time of registration. Candidates are required to upload a clear copy of the paid Bank Challan on the Admission Portal.

FEE STRUCTURE FOR BACHELOR PROGRAMS

BACHELOR OF ENGINEERING TECHNOLOGIES

Detail	SEMESTER							
	1st	2nd	3rd	4th	5th	6th	7th	8th
Admission Fee (Per Year)	18,000	-	18,000	-	18,000	-	18,000	-
PERN Fee (Per Year)	2,000	-	2,000	-	2,000	-	2,000	-
Smart Identity Card Fee (Per Year)	500	-	500	-	500	-	500	-
Enrolment Card Fee (Once)	500	-	-	-	-	-	-	-
HSC / DAE Marks Certificate Verification Fee (Once)	2,500	-	-	-	-	-	-	-
University Caution Money Deposit – Refundable*	1000	-	-	-	-	-	-	-
Tuition Fee (Per Semester)	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
Sports Charges (Per Semester)	400	400	400	400	400	400	400	400
Development Charges (Per Semester)	400	400	400	400	400	400	400	400
Transport Charges (Per Semester)	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Library Fee (Per Semester)	400	400	400	400	400	400	400	400
Medical Fee (per Semester)	300	300	300	300	300	300	300	300
Lab Equipment Maintenance (Per Semester)	1000	1000	1000	1000	1000	1000	1000	1000
Total	46,500	22,000	42,500	22,000	42,500	22,000	42,500	22,000
GRAND TOTAL IN PKR	262000/=							

BACHELOR OF SCIENCE FOR COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

Detail	SEMESTER							
	1st	2nd	3rd	4th	5th	6th	7th	8th
Admission Fee (Per Year)	18000	-	18000	-	18000	-	18000	-
PERN Fee (Per Year)	2,000	-	2,000	-	2,000	-	2,000	-
Smart Identity Card Fee (Per Year)	500	-	500	-	500	-	500	-
Enrolment Card Fee (Once)	1,000	-	-	-	-	-	-	-
HSC / DAE Marks Certificate Verification Fee (Once)	2,500	-	-	-	-	-	-	-
University Caution Money Deposit – Refundable*	1500	-	-	-	-	-	-	-
Tuition Fee (Per Semester)	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
Sports Charges (Per Semester)	500	500	500	500	500	500	500	500
Development Charges (Per Semester)	800	800	800	800	800	800	800	800
Transport Charges (Per Semester)	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Library Fee (Per Semester)	1000	1000	1000	1000	1000	1000	1000	1000
Medical Fee (per Semester)	300	300	300	300	300	300	300	300
Lab Equipment Maintenance (Per Semester)	3500	3500	3500	3500	3500	3500	3500	3500
Total	51,100	25,600	46,100	25,600	46,100	25,600	46,100	25,600
GRAND TOTAL	291,800							

BACHELOR OF SCIENCE FOR COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE (SELF -FINANCE)

Detail	SEMESTER							
	1st	2nd	3rd	4th	5th	6th	7th	8th
Admission Fee (Per Year)	18000	-	18000	-	18000	-	18000	-
PERN Fee (Per Year)	2,000	-	2,000	-	2,000	-	2,000	-
Smart Identity Card Fee (Per Year)	500	-	500	-	500	-	500	-
Enrolment Card Fee (Once)	1,000	-	-	-	-	-	-	-
HSC / DAE Marks Certificate Verification Fee (Once)	2,500	-	-	-	-	-	-	-
University Caution Money Deposit – Refundable*	1500	-	-	-	-	-	-	-
Tuition Fee (Per Semester)	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000
Sports Charges (Per Semester)	500	500	500	500	500	500	500	500
Development Charges (Per Semester)	800	800	800	800	800	800	800	800
Transport Charges (Per Semester)	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Library Fee (Per Semester)	1000	1000	1000	1000	1000	1000	1000	1000
Medical Fee (per Semester)	300	300	300	300	300	300	300	300
Lab Equipment Maintenance (Per Semester)	3500	3500	3500	3500	3500	3500	3500	3500
Total	75,600	50,600	71,100	50,600	71,100	50,600	71,100	50,600
GRAND TOTAL	491,300							

BACHELOR OF SCIENCE IN ENGLISH AND PHYSICS

Detail	SEMESTER							
	1st	2nd	3rd	4th	5th	6th	7th	8th
Admission Fee (Per Year)	18000		18000		18000		18000	
PERN Fee (Per Year)	2,000		2,000		2,000		2,000	
Smart Identity Card Fee (Per Year)	500		500		500		500	
Enrolment Card Fee (Once)	500		-		-		-	
HSC / DAE Marks Certificate Verification Fee (Once)	2,500		-		-		-	
University Caution Money Deposit – Refundable*	1000							
Tuition Fee (Per Semester)	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Sports Charges (Per Semester)	400	400	400	400	400	400	400	400
Development Charges (Per Semester)	400	400	400	400	400	400	400	400
Transport Charges (Per Semester)	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Library Fee (Per Semester)	400	400	400	400	400	400	400	400
Medical Fee (per Semester)	300	300	300	300	300	300	300	300
Lab Equipment Maintenance (Per Semester)	500	500	500	500	500	500	500	500
Total	44,000	19,500	40,000	19,500	40,000	19,500	40,000	19,500
GRAND TOTAL	242,000							

FEE RETURN POLICY

Fee Refund Policy (As per HEC Policy)

The BBS-UTECH University follows the Higher Education Commission (HEC) National Fee Refund Policy, mentioned below:

Tuition Fee Refund Schedule

Timeline	Refund %
Up to 10th day of commencement of classes	100%
Up to 15th day	80%
Up to 20th day	60%
Up to 30th day	50%
31st day onwards	No Refund

Grounds for Refund

- Personal emergency, health, or family medical reasons
- Legal/immigration matters
- Delay in admission at another university
- Non-fulfillment of admission requirements

Other Refundable Fees

- Laboratory, Transport, Utilities, Curricular/Co-Curricular fees — 100% refundable minus days availed
- Library and Examination fees — fully refundable
- Security/Deposit fee — refundable after deduction of damages, or in full upon completion/withdrawal

Non-Refundable Fees

- Admission Fee and Registration/Application Fee are non-refundable under any circumstances
- No refund (except Security Deposit) in case of expulsion due to disciplinary action

Postponement

- Fee may be carried forward to the next semester if postponement is requested within 2 weeks of semester start; afterwards, only on verified medical grounds

The fee refund policy as per HEC directives will become applicable after the commencement of classes of the Zero Semester.

EXAMINATION FEES

Semester Examination including Marks sheet fee: Rs.3000/=

HOSTEL FEE- SESSION 2026-27

1. Hostel allotment form fee (at the time of admission):	Rs.500/=
2. Hostel fee (per seat) per annum	Rs.14000/=
3. Hostel Deposit (refundable) once	Rs.1,000/=
4. Identity Card fee	Rs. 500/=
5. Utility charges per annum	Rs. 6000/=
Total	Rs.22000/=

PRE-ADMISSION TEST

The pre-Admission test is mandatory for all candidates applying for admission to any program being offered by the BBS-UTECH Khairpur Mirs.

Entry Test Pattern for Admission to BACHELOR PROGRAM SESSION 2026-27:

60 MCQ test will be conducted from Intermediate level English, Mathematics, Physics & Chemistry subjects from students having Intermediate Pre-Engineering qualifications.

60 MCQ test will be conducted from Intermediate level English, Biology, Physics & Chemistry subjects from students having Intermediate Pre-Medical qualifications.

60 MCQ test will be conducted from Intermediate level related to Arts and Commerce subjects from students having Intermediate in Arts and Commerce.

MERIT CRITERIA FOR ADMISSION TO BACHELOR PROGRAM SESSION 2026-27

Merit criteria for admission to BS/Bachelor of Engineering Technology Program for Academic Session 2026-27 be allowed on the following weightage calculations:

50% Marks secured in Pre-Admission Test

50% Marks of final Degree of the candidate

DEDUCTION OF MARKS DUE TO GAP IN ENTRY QUALIFICATION SESSION 2026-27

In case of a gap or repetition of Intermediate / DAE examinations, the merit will be determined as described below:

Students passed Intermediate /DAE in 2025 = (1 % of the aggregate marks will be deducted)

Students passed Intermediate /DAE in 2024 = (2 % of the aggregate marks will be deducted)

Students passed Intermediate /DAE in 2023 and before = (3 % of the aggregate marks will be deducted)

VERIFICATION OF ORIGINAL DOCUMENTS

After entrance test results all the successful candidates shall have to produce original documents before the admission interview committee of the BBSU-TECH. List of documents to be verified at the time of the interview is available on online Admission form.

ADDITIONAL MARKS FOR HAFIZ-E-QURAN

The candidate who has certificate of Hafiz-e-Quran issued by the MADARSA (Registered) clear the test of Hafiz taken by the University, are also considered to have additional 20 marks to be added to the marks of DAE / HSC results

MEDICAL FITNESS

The final selection of the candidates shall be made subject to the Medical Fitness Certificate of the Medical Officer (RMP) of the University.

CATEGORY WISE DISTRIBUTION OF SEATS

Category / Region	CET	EET	EST5	MET	RET	CS	A.I	ENG	Phy
Open Merit (Sindh Province) HSC/DAE	61	34	35	35	35	66	30	35	35
Female Candidates (HSC/DAE) (Sindh Province)	8	5	5	5	5	10	5	5	5
Self-Finance Seats Reserved	--	--	--	--	--	10	5		
Real sons'/daughters'/(brothers/sisters) of BBS-UTECH employees	1	1	1	1	1	2	1	1	1
Armed Forces	1	1	--	--	--	--	--	--	--
Other Provinces	5	5	5	5	5	5	5	5	5
Overseas	1	1	1	1	1	1	1	1	1
Gilgit Baltistan	1	--	1	--	--	--	--	1	1
Azad Jammu Kashmir (AJK)	--	1	--	1	1	2	1	--	--
Religious Minorities	1	1	1	1	1	2	1	1	1
Differently abled persons	1	--	1	--	--	--	--	1	1
Staff of the BBS-UTECH Khairpur Mirs	--	1	--	1	1	2	1	--	--
TOTAL	80	50	50	50	50	100	50	50	50

(CET = Civil, EET = Electrical, ESET = Electronics, MET = Mechanical, RET = Robotics & AI Engineering Technology; CS = Computer Science; A.I = Artificial Intelligence; BS ENG = BS English; BS Phy = BS Physics)

*Transfer of technology facility may be allowed against both of the two seats reserved for staff of the BBSU-TECH

Note: Vacant seats in any category will be filled on open merit with equal weightage for HSC & DAE. Vacant seats of DAE or HSC shall be transferred, and vice versa.

ADMISSION AGAINST THE RESERVED SEATS

Admission against the seats reserved for the employees of the University

Real sons/daughters/brothers/sisters of regular employees of the University (serving or retired, deceased or working) shall be considered for admission to first year class against the reserved seats on the following criteria,

- First preference will be 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.
- Second preference will be given to real Sons/Daughters of employees who are confirmed in the University service and have less than three years University service at their credit.
- Third preference will be given to real Sons/Daughters of employees who are not confirmed in the University service and have at least three years continuous University credit at their credit
- Fourth preference will be 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.
- Fifth preference will be 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.

- vi. Sixth preference will be 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.
 - vii. Seventh preference will be given to real Sons/Daughters of employees who are not confirmed in the University service and have less than three years University service at their credit
 - viii. Eighth preference will be given to real Brothers/Sisters of employees who are not confirmed in the University service and have less than three years University credit at their credit
- Note: The merit of category C will be determined as per policy of the University. A copy of the appointment order and confirmation order of the employee must be attached with the admission form.

ARMED FORCES

Candidates seeking admission to seats reserved for Armed Forces should apply through G.H.Q, N.H.Q and A.H.Q. Direct applications shall not be entertained.

RECIPROCAL

The candidates from the other provinces, seeking admission on reciprocal basis should send their applications through their provincial authority. Direct applications shall not be entertained.

AAK AND GILGIT BALTISTAN

- a) They have to apply (in advance copy) for admission and submit forwarded copy from competent authority for admission in the university
- b) They have to appear in Pre-Admission Test for admission in Bachelor of Engineering Technology at the University.

RELIGIOUS MINORITIES

One seat in each technology is reserved for Religious Minorities

DIFFERENTLY ABLED PERSONS

The candidate for Differently abled quota has to provide Differently abled certificate of approved medical board from the Government of Sindh.

STAFF OF THE UNIVERSITY

The staff will be allowed admission in Bachelor of Engineering Technology against reserved quota in first year on the submission of NOC and study leave from the authority

CLOSING OF ADMISSION

The admission for session will be closed at the end of 04th week after the date of commencement of classes. After this period the vacant seats will not be filled at any stage.

CANCELLATION OF ADMISSION

Due to continuous absence from the classes for a period of one month during the session.

Violation of submitted undertaking.

N.O.C. & STUDY LEAVE FOR IN-SERVICE CANDIDATES

In service candidates applying for admission must produce Study Leave along with NOC from the competent authority at the time of admission



STUDENTS' IDENTITY CARD

The students, after getting admission to the University will be issued University identity card.

FINAL AUTHORITY REGARDING ADMISSION

The decision of Admission Committee of this University in respect of admission is final and not challenging.

DISQUALIFICATION

Any attempt to influence directly/indirectly for admission shall render the candidate disqualified.

The admission form is liable to be rejected if any entry is found incomplete/incorrect /misleading. The alteration or erasing should not be allowed in the form.

PRE-REQUISITE QUALIFICATIONS FOR ADMISSION IN BE TECH PROGRAMS

Bachelor of Engineering Technology (Civil)

- HSC (Pre-Engineering)
- HSC (Pre-Medical)
- DAE (Civil)
- DAE (Arch.)
- DAE (Land & mine surveying)

Bachelor of Engineering Technology (Electrical)

- HSC (Pre-Engineering)
- HSC (Pre-Medical)
- DAE (Electrical)
- DAE (Electronics)
- DAE (Instrumentation & Process Control)
- DAE (Telecommunication)
- DAE (Avionics)
- DAE (Instrumentation)
- DAE (Information Technology)
- DAE (Radar Technology)
- DAE (Automation)
- DAE (Radio Technology)

Bachelor of Engineering Technology (Electronics)

- HSC (Pre-Engineering)
- HSC (Pre-Medical)
- HSC (CIT)
- DAE (Electrical)
- DAE (Electronics)
- DAE (Telecommunication)
- DAE (Bio-Medical)
- DAE (Instrumentation & Process Control)



- DAE (Avionics)
- DAE (Instrumentation)
- DAE (Radar Technology)
- DAE (Automation)
- DAE (Radio Technology)

Bachelor of Engineering Technology (Mechanical)

- HSC (Pre-Engineering)
- HSC (Pre-Medical)
- DAE (Mechanical)
- DAE (Auto & Farm/ Diesel)
- DAE (Refrigeration & Air Conditioning)
- DAE (Bio-Medical)
- DAE (Dies & Molding)
- DAE (Automation)
- DAE (Power)

PRE-REQUISITE QUALIFICATIONS FOR ADMISSION IN B.S DEGREE PROGRAMS

BSc in English

- HSC in P.E
- P.M
- Arts
- Commerce
- Computer Science
- Three (03) Year Diploma of Associate Engineer (DAE) in any discipline

BSc in Computer Science

- HSC in P.E
- HSC (P.M)
- Computer Science
- DAE (Electrical)
- DAE (Electronics)
- DAE (Telecommunication)
- DAE (CIT)
- DAE (Bio-Medical)
- DAE (Instrumentation & Process Control)
- DAE (Avionics)
- DAE (Instrumentation)
- DAE (Radar Technology)
- DAE (Radio Technology)



- DAE (Information Technology) & related discipline

BSc in Artificial Intelligence

- HSC in P.E
- HSC (P.M)
- Computer Science
- DAE (Electrical)
- DAE (Electronics)
- DAE (Telecommunication)
- DAE (CIT)
- DAE (Bio-Medical)
- DAE (Instrumentation & Process Control)
- DAE (Avionics)
- DAE (Instrumentation)
- DAE (Radar Technology)
- DAE (Radio Technology)
- DAE (Information Technology) & related discipline

BSc in Physics

- HSC in P.E or Equivalent
- HSC (P.M) or Equivalent
- Three (03) Year Diploma of Associate Engineer (DAE) in any discipline

ELIGIBILITY FOR APPEARING IN EXAMINATIONS

As per University policy, the students having class attendance less than 75% will not be eligible to appear in the final examinations.

STUDENTS' SOCIETIES

To help the students in developing the qualities of leadership and good citizenship the University encourages them to participate in all extra curriculum activities provided that such activities do not interfere in their academic progress or administration of this University.

The student's societies formed and managed by the students under the supervision of the University administration will only be allowed to organize extra curriculum activities such as Sports, Dramas, Social and Literacy activities and publication of university magazines.

RULES OF DISCIPLINE

Every student shall observe the following:

- He /She must be faithful in his/her religious duties and respect the convictions of other in matters of religion and customs;
- He /She must be loyal to his/her country and refrain from doing anything which might lower its honour and prestige;
- He /She shall be truthful and honest in his/her dealings with all people;
- 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;
- He /She must respect his/her teachers and others in authority in the University;
- He /She must keep his/her mind clean and be clean in speech, sports and habits;
- He /She shall help his/her fellow beings especially those in distress;
- 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 He /She must observe thrift and protect property.

NO STUDENT SHALL:

- Smoke in his/her classroom, laboratory, workshop, library, examination hall or Convocation Hall and during any academic functions
- 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;
- Organize or take part in any function within the University Campus, organize any club or society of students without permission from the University authorities
- Indulge into activities against the Islamic and Pakistan Ideology or national solidarity;
- Indulge into activities promoting, prompting or involving violence or hatred or contempt
- 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 antisocial elements in the University Campus;

- Use pressure tactics or political or personal influence in seeking academic concessions or financial benefits or in other matters concerning academic and administrative functions of the University authorities;
- 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 unauthorized 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 mal
- Bring, keep or use any kind of weapon or firearms or sharp tool within the University Campus;
- Use or occupy fully or partially any room or any building of the University Campus unauthorized.
- Organize or take part in procession or meeting within the University Campus, prejudicial to the
- Stage, incite, or participate in or abet any walk-out, strike, or any other form of agitation against the University or its teachers or officers;
- 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;
- Bring, keep, or use mobile phone with built.in camera and digital dictionary within the Academic and Examination buildings of the University;
- Snatch mobile phones, use mobile phone during examination/class/PR or in the library;
- Tease the girl/boy students; demonstrate indecent or immoral gestures/attitude towards Girl /boy students on the Campus;
- Abuse/violate IT policies framed or to be framed from time to time.

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.

DISCIPLINE COMMITTEE

The Discipline Committee shall deal with serious cases of indiscipline requiring such actions as prescribed by Regulation (@ 19).

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.

GROUND OF PENALTIES

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:

- 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 liable 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 commits any criminal, immoral or dishonorable act (whether committed within the University Campus or otherwise) which brings bad name to the University.
- h. 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 above acts/charges.

The penalty or penalties imposed shall be appropriate and proportional to the nature and gravity of the above act or acts.

Penalties

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

Penalty	An officer / authority competent to impose penalty
(a)	
(i) Exclusion from classroom/ Laboratory/ Field work/workshop for four Classes from his/her own classes.	Class Teacher / Workshop Instructor
(ii) Impose fine up to Rs. 500/-	--- do ---
(b) Exclusion from the games or the field for the day.	Sports In-charge
(c) Exclusion from Instructional or sports tour or survey camp.	Teacher/Officer In-charge
(d)	
(i) Exclusion from the department for a period not exceeding one week.	Chairman of the Teaching Department/ Director of the Teaching Institute.
(ii) Impose fine up to Rs. 1000/-	--- do ---
(e) Exclusion from the Department for a period not exceeding two weeks.	Dean of the concerned Faculty on the recommendations of the concerned Departmental Committee
(f) Fine not exceeding Rs.500/-	Teacher In-charge, or Superintendent of Workshop
(g) Fine not exceeding Rs.5000/-	Dean of the Faculty Concerned on the Recommendation of the departmental committee concerned.
(h)	
(i) Fine not exceeding Rs.10,000/-	Vice-Chancellor on the Recommendations of the Dean concerned and concerned departmental committee.
(ii) Exclusion from the department for a period not exceeding 3 weeks	--- do ---
(i) Withholding of issue of character certificate	Chairman of the Teaching Department/ Director of the Teaching Institute.

(j) Cancellation of examination or part There-of or debarring from appearing in any examination or part there-of.	Vice-Chancellor on the recommendations of the Discipline Committee.
(k) Cancellation of remission of fee or University Scholarship.	Vice-Chancellor on the recommendations of the Dean of the Faculty concerned.
(l) 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.
(m) Suspension of admission from the University for a period specified or unspecified pending the final decision.	Dean of the concerned Faculty on the recommendations of the Departmental Committee.
(n) Rustication/Expulsion from the University for a period not exceeding one year.	Vice-Chancellor on the recommendations of the Discipline Committee
(o) Rustication/expulsion from the University for a period exceeding one year.	Syndicate on the recommendations of the Discipline Committee
(p) Cancellation of admission from the University.	Syndicate on the recommendations of the Discipline Committee.
(q) Withholding 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 inferior authorities as prescribed above.

Chance of Defend

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.

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 made to him/her, provided that the Vice-Chancellor may for valid reasons condone delay in any individual case.

Compensation

The Vice-Chancellor or any teacher or officer duly authorized by the Vice-Chancellor/Principal/Director of the Affiliated University / 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.

Prerequisite of Courses

Students have to qualify prerequisite of that course for selection of a course.

Maximum duration to qualify for the degree program is up to 7-years

REGULATIONS FOR SEMESTER SYSTEM

Regulations regarding the Courses of Studies for the Bachelor's Degree Programs of the Benazir Bhutto Shaheed University of Technology and Skill Development, under Section 32 (1) (a) of the Act, 2016

Short Title: These Regulations may be called the Benazir Bhutto Shaheed University of Technology and Skill Development Bachelor of Degree Course Regulations, 2017. These Regulations shall be subject to the Benazir Bhutto Shaheed University of Technology General Scheme of Studies for the bachelor's degree Course Statutes 2017.

Commencement: These Regulations shall be deemed to have come into force with effect from the First of September 2017.

Definitions: In these Regulations, unless expressly stated otherwise:

“University” means the Benazir Bhutto Shaheed University of Technology and Skill Development.

“Academic Year” means the Academic Year of the University.

“Semester” means a period of 22 weeks out of Academic Year for teaching and evaluation and/or guidance of the students of the University

“Syndicate” means the Syndicate of the University.

“Vice-Chancellor” means the Vice-Chancellor of the University.

“Pro-Vice-Chancellor” means the Pro-Vice-Chancellor of the University.

“Dean” means the Dean of the concerned Faculty of the University.

“Controller of Examinations” means the Controller of Examinations of the University.

“Chairman” means the Chairman of a Teaching Department of the University.

“Director” means the Director of Post Graduate Studies or Director of an Institute of the University.

“Teacher” means any Lecturer, Assistant Professor, Associate Professor or Professor teaching a subject/paper in the University or in a College/Institute affiliated to the University.

“Internal Examiner” means the teacher/person appointed by the Competent Authority, who has been teaching the subject to the regular class/section during the Academic Year for which the examination is being conducted.

The courses of Study:

The Courses of Studies for the degree of Bachelor of Technology (B.tech) shall be as followed in the Regulations, provided that these Regulations shall be subject to change as approved by the Academic Council of the University from time to time.

Duration of Semester & Year

First YEAR, Second year, Third year and Fourth year for the degree of Bachelor of Engineering Technology will be of one year duration (Total 4 years) each comprising of two semesters. Total Credit hours for all four years shall be 130-136.

There shall be two semesters in an academic year. The duration of teaching time in each semester shall be 16 weeks. The semester starting with the commencement of the academic year will be called the “First semester” and the following semester will be called the “Second Semester”.

Marks:

Each degree program shall carry a number of approved courses, and each course shall be assigned a number of Credit Hours. The Credit Hours per semester for each discipline shall be 15-.18. The details of the course, marks / grades assigned and the conditions for passing examinations shall be as prescribed by the Benazir Bhutto Shaheed University of Technology and Skill Development bachelor's degree Regulations 2017.

PERMISSIONS OF WRITER FOR SPECIAL STUDENTS

A visually impaired student may be allowed to attempt the Mid/Final Examinations of the University on Braille/ Computer/any other means of facilitation.

In case a student is physically handicapped/visually impaired, s/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. S/he will be allowed 45 minutes (maximum) extra time to solve the question paper.

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).

RECHECKING OF EXAMINATION SCRIPT

The answer book of a candidate shall not be re-assessed under any circumstances.

a. Whereas the re-checking does not mean re-assessment/re-evaluation/re-marking of the answer book. The Controller of Examination can arrange for re-checking of examination script by any faculty member from the relevant discipline on the complaint/request of students. The Controller of Examination or any officer or rechecking committee appointed shall see that:

- There is no computational mistake in the grand total on the title page of the answer book.
- The total of various parts of a question has been correctly made at the end of each question.
- All totals have been correctly brought forward on the title page of the answer book.
- No portion of any answer has been left un-marked.
- Total marks in the answer book tally with the marks sheet.
- The hand-writing of the candidate tally in the questions/answer book.

b. The candidate or anybody on his behalf has no right to see or examine the answer books for any purpose.

c. The marks of a candidate could even decrease in light of (a) (iii) above. In the event of reduction of marks, the record shall be corrected accordingly and revised transcript will be issued.

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:

Average marks shall be awarded to the student in that subject/course.

In case of Final Examination, if the candidate so desires, s/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.

In case of Internal Assessment, if the candidate so desires, s/he shall be given another chance as a special case to take the Make-up Assessment in that subject/course in the same academic session.

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 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 seek approval through the Dean and the Pro-Vice Chancellor from the Vice Chancellor to recheck the Scripts by a Subject expert (other than the subject teacher). The final recommendations of the Departmental Committee concerning the results will be submitted through the concerned Dean and Pro Vice Chancellor to the Vice Chancellor for consideration and approval.

YEARLY ACADEMIC PROGRAM

Academic Program	Duration
Teaching duration of 1st Semester	16 Weeks
Conduct of Mid Semester Examination	01 Week
Preparation and Conduct of Final 1st Semester Exam	05 Weeks
Summer Break	06 Weeks
Teaching duration of 2nd Semester	16 Weeks
Conduct of Mid Semester Examination	01 Week
Preparation and Conduct of Final 2nd Semester Exam	05 Weeks
Winter break	02 Weeks
Total	52 Weeks

Note:

Minimum number of contact hours for a theory subject of 3 CHs per semester is 42

Minimum number of contact hours for a practical of 1CH per semester is 42.

. The minimum requirement for each semester course:

- Assignments
- Tests (minimum two).
- Mid Semester Examination
- Final Semester Examination.

The Schedule of Tests, Mid Semester and Final Semester Examination shall be as under:

S.No	Activity	Period
1	Mid Semester Examination	After 08 Weeks
2	Final Semester	After 16 Weeks

Distribution of Marks: (Applying on all Batches with effect from August 15, 2022)

The distribution of marks for each theory and practical course is as under:

Theory

#	Activity	Theory of Maximum 100 Marks	Theory of Maximum 50 Marks
1	Sessional (Assignments/Quiz/Presentation)	20	10
2	Attendance	10	05
3	Mid Semester Examinations	20	10

4	Final Semester Examinations	50	25
	Total	100	50

Practical

#	Activity	Practical of Maximum 100 Marks	Practical of Maximum 50 Marks
1	Sessional (Lab Performance/ Practical general /skill competition)	20	10
2	Attendance	10	05
3	Mid Semester Examinations	20	10
4	Final Semester Examinations	50	25
	Total	100	50

For 8th semester (Supervised Industrial Training) the following distribution of marks have been approved:

#	Subjects	Marks
1.	Training Performance	600
2.	Viva Voce	200
	Total	800 Marks

With effect from the session starting from 15-12-2021, the new grading policy which is already applied on the Batch-20 and onwards also be applied on Batch-18 (8th semester) and Batch-19(7th and 8th semester), even if students of Batch-18 and 19 want to clear any failure subject or to improve any lower grade subject (i.e.: C or C+), also new grading policy will be applicable to them.

For improving the course or clear the failure course, students' needs to repeat the course, for that purpose summer courses should be offered to the students with the course registration fees of Rs. 5000. Students can only take 2 courses in a summer program, in extreme cases maximum 3 courses can be taken. Every students needs to filled up the examination form of fee of same as of regular examinations and appear in the summer semester examinations.

In summer courses other than regular students of BBSU-TECH, outsiders may be allowed for the same or other short courses, so that strength of students my increase.

Only for 19 Batch, the condition of C.G.P.A (i.e. 2.00 CGPA) in 1st year to be promoted in the 7th semester with 20-Batch should be debarred.

ABSOLUTE GRADING METHOD (GRADE EQUIVALENT)

Revised Grading Policy

GRADE	GRADE POINT	THEORY.		PRACTICAL	
		Max Marks 100	Max Marks 50	Max Marks 100	Max Marks 50
A+	4.00	≥ 85	≥ 42	≥ 85	≥ 42
A	3.75	75 to 84	37 to 41	75 to 84	37 to 41
B+	3.50	66 to 74	35 to 36	66 to 74	35 to 36
B	3.00	60 to 65	30 to 32	60 to 65	30 to 32
C+	2.50	55 to 59	27 to 29	55 to 59	27 to 29
C	2.00	50 to 54	25 to 26	50 to 54	25 to 26
F	FAIL	0 to 49	0 to 24	0 to 49	0 to 24

Fraction Nos will be rounded off to the nearest whole Nos Where 5.4=5, 5.5=6, 5.9=6

Subject carrying more than 100 marks in theory/Practical will be awarded grades accordingly.

The results will be prepared on the basis of Grade point Average (G.P.A)

METHOD OF WORKING OUT G.P

Credit Hours (C.H)

One credit hour (C.H) for a particular course is generally to be considered as one contact hour of teaching theory per week and for practical 1 C.H be considered as 3 contact hours

Quality Point (Q.P)

For computation of the (G.P.A) the quality point (Q.P) is first determine by the multiplying the value of the grade earned by the students with the Credit Hours of that course, e.g. if a student obtain "A+" grade for a three credit hours course then this quality point will be calculated as follows:

$$Q.P = 4 \times 3 = 12$$

Grade Point Average (G.P.A)

Grade point Average is an expression for the average performance of a student in the course he/she has offered during a particular semester. This is calculated by adding the quality points of all the courses taken, divided by the total number of Credit hours offered in a semester.

$$G.P.A = \frac{\text{Sum of Quality Points for all the courses appeared in a particular semester}}{\text{Sum of Credit Hours for all the courses appeared in a particular semester}}$$

Cumulative Grade Point Average (C.G.P.A) in a particular year

This is a figure ranging preferably from 0.00 to 4.00 be used to indicate the performance of a student in the year concerned. A standard scale of 0.00 to 4.00 is recommended to all HEIs

$$C.G.P.A = \frac{\text{Sum of the Q.P for all the courses appeared in a particular year}}{\text{Sum of the Credit Hours for all the courses appeared in a particular year}}$$

Cumulative Grade Point Average (C.G.P.A) for Degree

$$\text{C.G.P.A} = \frac{\text{Sum over all taken courses in all Semesters (Course Credit Hours x Grade Point Earned)}}{\text{Total Credit Hours taken in all Semester}}$$

CGPA REQUIRED FOR THE COMPLETION OF UNDERGRADUATE GRADUATE

- (i) For completion of the degree, the minimum qualifying CGPA for Bachelor of Engineering Technology Students are 2.00.
- (ii) 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, along with the forthcoming semester, provided that she/he is not debarred under the CGPA Improvement Regulation and time duration specified for the program.

PROMOTION/TERM BACK POLICIES:

A student be promoted to the 2nd semester of the first year provided he/she has completed minimum attendance requirement and Filled up examination form and appeared in at least one of the Heads of the Final examinations (First Semester). (A theory or practical would be treated as separate heads).

If Student could not fulfill the above criteria, then he/she will be treated as term back. He/she has to get re-admission with lower batch in 1st semester 1st year and has to pay half fees of the particular batch with whom he/she is going to be admitted.

ii) A student will be promoted to the 1st semester of the 2nd year (3rd semester) provided he/she has obtained C-Grade or higher in at least 50% Heads (including minimum of 02 theory heads) of 1st semester of first year in regular examination and has completed minimum attendance requirement of 2nd semester of the 1st year and has filled up examination form and appeared in at least one of the heads of final examinations (Second Semester). (A theory or practical would be treated as separate heads). Benefit of the fraction will be given to the student.

If Student could not fulfill the above criteria then he/she will be treated as term back until he/she fulfill the above mentioned criteria. If any student wants to get the re-admission in 1st semester 1st year with lower batch then he/she has to pay full fees of the particular batch with whom he/she is going to be re-admitted.

If any student term back due to shortage of attendance of 2nd semester 1st year then he/she can get the re-admission in 2nd semester of 1st year with lower batch, he/she has to pay half fees of the particular batch.

iii) A student will be promoted to the 2nd semester of the 2nd year (4th semester) provided he/she has completed minimum attendance requirement of the 3rd semester, filled up the examination form and appeared in at least one head of the final examination (Third Semester). (A theory or practical would be treated as separate heads).

If any student term back due to shortage of attendance of 1st semester 2nd year (3rd Semester) then he/she can get the re-admission in 1st semester of 2nd year with lower batch, he/she has to pay half fees of the particular batch.

iv) A student will be promoted to the 1st semester of the 3rd year (5th semester) provided he/she has obtained C-Grade or higher in at least 50% Heads (including minimum of 05 theory heads) of 1st year (1st & 2nd Semester) prior to start of classes of 5th semester and has completed minimum attendance requirement of the 4th semester, and has filed up the examination form and appeared in at least one of the Heads of the final Examination (4th Semester). (A theory or practical would be treated as separate heads). Benefit of the fraction will be given to the student.

If Student could not fulfill the above criteria then he/she will be treated as term back until he/she fulfill the above mentioned criteria. If any student term back due to shortage of attendance of 2nd semester 2nd (4th Semester) year then he/she can get the admission in 2nd semester of 2nd year with lower batch, he/she has to pay half fees of the particular batch.

(v) A student will be promoted to the 2nd semester of the 3rd year (6th semester) provided he/she has completed minimum attendance requirement, filled up the examination form and appeared in at least one of the heads of the final examination (5th semester). (A theory or practical would be treated as separate heads).

If any student term back due to shortage of attendance of 1st semester 3rd year (5th Semester) then he/she can get the re-admission in 1st semester of 3rd year with lower batch, he/she has to pay half fees of the particular batch.

(vi) A student will be promoted to the 1st semester of the 4th year (7th semester) provided he/she has cleared all heads of first year, for 20 and onward batches, obtained C-Grade or higher in at least 50% Heads of second year (3rd & 4th Semester) (including minimum of 05 theory heads) prior to the start of the classes of 7th semester, and has completed minimum attendance requirement of the 6th Semester and has filled up the examination form and appeared in at least one of the Heads of the final Examination (6th Semester). (A theory or practical would be treated as separate heads). Benefit of the fraction will be given to the student.

If Student could not fulfill the above criteria then he/she will be treated as term back until he/she fulfill the above mentioned criteria. If any student term back due to shortage of attendance of 2nd semester 3rd year (6th Semester) then he/she can get the re-admission in 2nd semester of 3rd year with lower batch, he/she has to pay half fees of the particular batch.

(vii) A student will be promoted to the 2nd semester of the 4th year (8th semester) provided he/she has completed minimum attendance requirement, filled up the examination form and appeared in at least one of the heads of the final examination (7th semester). (A theory or practical would be treated as separate heads).

If any student term back due to shortage of attendance of 1st semester 4th year (7th Semester) then he/she can get the re-admission in 1st semester of 4th year with lower batch, he/she has to pay half fees of the particular batch.

CREDIT TRANSFER POLICY-BBS-UTECH KHAIRPUR MIRS

Introduction:

To handle the cases of Undergraduate Students requesting credit transfer to Benazir Bhutto Shaheed University of Technology and Skill Development Khairpur Mir's (BBSU-TECH) from Local/favoring educational institutions, and from within BBS-UTECH Khairpur Mir's a policy/standing operation procedure (SOPs) has been formulated. All Transfer requests are evaluated and processed in the light of this policy in a controlled manner.

Procedure:

To handle Under extraordinary circumstances, on the recommendation of the Chairperson/Chairman of the concerned institute/department, the case will be processed by Dean for approval of the Vice-Chancellor and notified by the Register.

The Vice-Chancellor may allow the transfer of a student within BBSU-TECH, from other foreign /Pakistani universities/colleges of repute, generally under the following conditions:

- 1-The applicant can apply after completion of the first year of study.
- 2-He/she should apply to BBSU-TECH, four weeks before the start date of a semester.
- 3-The applicant should be an enrolled student in his/her parent university at the time of applying for Transfer.
- 4-Possesses SSC & HSSC/equivalent certificates of relevant groups with minimum 60% marks.
- 5-All Non-FSc stream candidates have to provide an equivalence certificate duly obtained from IBCC, Pakistan.
- 6-Should have academic performance of reasonably promotion policy of BBSU-TECH.
- 7-Courses to be transferred have a minimum B Grade. Courses must correspond to courses offered by BBS-UTECH or equivalent in depth and intensity.
- QEC Represents You & QEC Needs Your Support 8-The credits transferred are counted towards the degree requirement and the GPA of the transferred credits shall not be counted towards the calculation of CGPA.
- 9-Candidate must complete at least 60% credit hours of his degree program at BBSU-TECH.
- 10-The university/college/institute from which the student requests for transfer is well known, accredited, recognized by HEC, and has a respectable standing/ranking.
- 11-Candidates applying from abroad must ensure that their institute/university is accredited from a respective accreditation body.
- 12-Transfer within BBS-UTECH will be allowed to students admitted based on the BBS-UTECH selection process.
- 13-Inter-institutional transfers of students within BBS-UTECH will be allowed only once and managed/processed based on the laid down procedure in vogue.
- 14-BBS-UTECH authorities reserve the right to reject cases without assigning any reason.

Application must be submitted at least 4 weeks prior to the start of a regular semester.

15-Technology program of Engineering program of vice versa. As amended/ updated from time to time, will be applicable in the processing of all transfer cases.

How to Apply:

a. Download the transfer form.

<https://BBSU-TECH.edu.pk/wp-content>

b. Duly filled transfer form may be forwarded to Undergraduate Section, Directorate of Admission, BBS-UTECH Khairpur Mirs along with following: -

- (1) Official transcript of semesters studied at Parent University.
- (2) Photocopy of mark sheets of Matric and FSc/equivalent examinations (equivalence certificates from IBCC, Pakistan in case of O/A level/ equivalent exams).
- (3) Detailed course outlines of courses already studied.
- (4) No Objection Certificate (NOC) from Parent University.
- (5) Character certificate from Parent University.
- (6) Bank draft amounting to Rs 5000/- (Rupees five thousand) in favor of BBS-UTECH Khairpur Mirs as initial transfer processing fee.
- (7) Transfer fee applicable after migration/transfer is accepted/approved by BBS-UTECH Khairpur Mirs.

QEC Represents You & amp; QEC Needs Your Support

Transfer Fee PKR

Transfer from foreign universities 100,000/-

Transfer from local universities 50,000/-

Processing BBS-UTECH fee 5,000/-

Attendance Requirement

A student should have at least 75% attendance to appear in the Final Semester Examination of that particular subject.

In genuine cases, maximum 10% condonation in attendance shall be the discretionary powers of the Vice Chancellor on the basis of an application to be scrutinized by Director/Chairman concerned and routed through respective Dean concerned / Pro-Vice Chancellor.

The eligibility attendance of Theory/Practical for late admitted students of First Semester of First Year shall be calculated from the date of admission.

Conduct of Sessional Work/Mid-Semester and Final Semester Examinations

10/5 marks of assignment for subjects carrying 100/50 marks shall be awarded by the teacher concerned after conducting 3/2 class tests (MCQ type) and 2/1 best of 3/2 class tests shall be counted toward award of 10/5 marks. The entire record of evaluated class tests shall be submitted by the concerned subject teacher to Examinations Department at the time of submission of final results.

At the end of each semester, the marks of attendance, sessional work, and lab work secured by the student in Theory and Practical of the concerned subject shall be announced by the concerned subject teacher by displaying sessional marks on the Notice Board.

Mid Semester Examination will be conducted by the Examination Department in collaboration with the concerned Department/Institute.

The mid-semester examination will be conducted only for theoretical subjects.

The time duration for mid semester examination will be 1 hour for 3 CHs course, and each question paper will contain 3 questions with a choice to attempt any two, whereas, the time duration for 2 CHs course examination will be 45 minutes and the question paper will contain 3 questions with a choice to attempt any two.

REGULATIONS FOR CONDUCT OF EXAMINATIONS

*Regulations regarding the conduct of Examinations of the Benazir Bhutto Shaheed University of Technology and Skill Development, under Section 32 (1) (d) of the Act, 2016.

1. Short Title: These Regulations may be called the Benazir Bhutto Shaheed University of Technology and Skill Development (BBSU-TECH) conduct of Examinations Regulations, 2017.

2. Commencement: These Regulations shall be deemed to have come into force with effect from the First of July 2017.

3. Definitions: In these Regulations, unless expressly stated otherwise:

“University” means the Benazir Bhutto Shaheed University of Technology and Skill Development.

“Syndicate” means the Syndicate of the University.

“Vice-Chancellor” means the Vice-Chancellor of the University.

“Dean” means the Dean of the concerned Faculty of the University.

“Controller of Examinations” means the Controller of Examinations of the University.

“Chairman” means the Chairman of a Teaching Department of the University.

“Director” means the Director of Post Graduate Studies or Director of an Institute of the University.

“Teacher” means any Lecturer, Assistant Professor, Associate Professor or Professor teaching a subject / paper in the University.

“Discipline Committee” means the Discipline Committee of the University constituted under the First Statutes appended to Benazir Bhutto Shaheed University of Technology and Skill Development Act 2016 and/ or constituted separately for the constituent with the approval of the Vice-Chancellor.

“Unfair means Control Committee” means the Committee appointed by the Vice-Chancellor to scrutinize the reported cases of unfair means/ malpractice of the University & Affiliated Colleges/ Institutes for recommendation to the Discipline Committee/ Vice-Chancellor.

“Vigilance/ Inspection Committee” means the Vigilance/ Inspection Committee which may be constituted by the Vice-Chancellor for monitoring overall conduct of Examination of the University.

“Head Invigilator” means the concerned Dean, of the faculty appointed by the Vice-Chancellor as Head Invigilator for overall monitoring of Regular Examination of Bachelor of Engineering Technology or any other examination conducted by the University held in the University.

“External/ Internal Head Invigilator” means the Teacher of the University (at least Associate Professor) appointed by the Vice-Chancellor as External/ Internal Head Invigilator on the recommendation of the concerned Dean for supervising overall conduct of Regular/ Supplementary Examination of the University.

“Factotum” means the Director/ Chairman or his nominee not below the rank of Associate Professor of the concerned Department appointed by the Vice-Chancellor for conducting Regular/ Supplementary Examinations of the respective Institute/ Department.

“Invigilator” means any Teacher appointed by the concerned Factotum for conduct of Regular/Supplementary Examination of the concerned Institute/Department. In case of the External Invigilators from amongst the Teachers of the University may be appointed by the Vice-Chancellor on the recommendation of concerned Director/Chairman.

“Tabulator/Checker” means the teacher at the University possessing experience and good understanding of examination system appointed by the Vice-Chancellor on the recommendation of the Controller of Examinations for compilation and scrutiny of results of candidates of the University.

4. Last dates for receipt of application forms and dates for the conduct of Term/Semester Examination of the University are notified by the Controller of Examinations with the approval of the Vice-Chancellor as per Academic Calendar or as proposed by the Academic Heads concerned, as the case may be.

5. Question papers for Term/ Semester Examination shall be drawn up by the teachers of concerned subjects as Internal Examiners. In case of more than one subject teacher of a particular subject, the senior teacher will internally moderate the same and pass on to the Controller of Examinations duly sealed for moderation by External Examiners appointed by the University Authority.

6. Head Invigilators/ Factotums for Term/ Semester Examination shall be appointed by the Vice-Chancellor and Invigilators by the concerned Factotum. The number of Invigilators shall be decided by the concerned Factotum/ Head Invigilator at the ratio of 10 candidates per Invigilator with a minimum of two including subject teacher. The fraction of 0.5 or above shall be considered as 01.

7. For each Centre of Examination, two Head Invigilators, one internal and one external shall be appointed. The External Invigilators may also be appointed with the approval of the Vice-Chancellor for shared invigilation at the concerned University.

8. The overall conduct of Examination may be monitored by the Vigilance / Inspection Committees to be appointed by the Vice-Chancellor.

No Head Invigilator, Factotum or Invigilator shall be appointed at any examination at which any of the following relatives of his/her is appearing. Wife, husband, son, daughter, grand-son, grand-daughter, brother, sister, nephew, niece, grand niece/ nephew, uncle, aunt, first cousin, son/ daughter of first cousin, son-in-law, daughter-in-law, brother-in-law and sister-in-law.

(b) The Head Invigilators, Invigilators and Factotums shall, along with their acceptance, sign a declaration to the effect that no relative of theirs, as mentioned in (a) above, is appearing at that examination at which they have been appointed to work.

9. Instructions to Invigilators shall be given as per University policy.

10. The Term/Semester Examination of undergraduate / diploma courses of the University shall be held in the premises of the University and that as decided by the Vice-Chancellor.

11. Examination fees once paid shall not be refunded or held in reserve for a future examination, except in the following circumstances:

(1) When a candidate dies prior to the commencement of an examination.

- (2) When an application form is rejected by the University.
12. The Vice-Chancellor shall have power to exclude any candidate from a University examination on being satisfied that he/she is suffering from an infectious or contagious disease. Whenever any candidate is thus excluded, the fee paid by him/her for admission to the examination shall be refunded to him/her.
13. No person other than the candidates, University Officers and/or University representatives, Head Invigilators, Factotums, Invigilators and other workers appointed for the Examinations work will be allowed to enter the premises of any Centre of an Examination. The Head Invigilators/ Factotums/ Invigilators/Naib Qasids shall wear the specific badges during the conduct of Examinations.
14. No candidate shall be admitted to the Examination, who arrives at the place of Examination late by more than a half of an hour after time fixed for a paper.
15. Head Invigilators/ Factotums shall instruct the Invigilators that they should take particular care to collect from candidates all answer books provided to them, whether used or unused, cross the blank pages and enter on the face cover the number of supplements used. The Invigilators must acknowledge the receipt of Blank Answer Books after proper counting prior to start of Exam.
16. Head Invigilators/Factotums should see that Invigilators:
 - (a) do not engage in a conversation with the candidates during the examination and do not read what the candidates write;
 - (b) do not give any kind of explanation connected with any question set.
 - (c) do not do any private or office work during the hours of supervision, nor on any account admit outsiders to the place of examination;
 - (d) do not give copies of the question paper set to anyone who is not a candidate sitting for the examination.
 - (e) do not use mobile phone during the examination duties.
 - (f) must report the cases of candidates to Factotums/ Head Invigilators who are found indulged in unfair means/impersonation/ undisciplined acts etc. along with relevant materials/ evidence.
17. The Factotums/ Head Invigilators shall see that no candidate leaves his/her seat within the first half of an hour of the Examination.
18. The sealed envelopes containing question papers shall be opened by Head Invigilator/ Factotum concerned directly in the examination Hall not more than 15 minutes before the time fixed for each paper. The concerned Factotum/ Head Invigilator shall ensure that seals are intact prior to opening of envelopes and shall also certify accordingly.
19. Question papers for various blocks should be distributed among the various invigilators not more than 5 minutes before the time fixed for each paper.
20. The concerned Invigilators shall report the cases in writing to Factotums/ Head Invigilators fully documented of any such candidate who is found indulged in copying/ impersonation/ misbehavior/undisciplined acts etc. The Invigilators/Factotums/Head Invigilators shall not cancel any answer of Question(s) fully or partially on any reason whatsoever.
21. The Factotums/ Head Invigilators shall expel any candidate found copying or for any other offence considered serious by them and report cases of expulsion and/or of offences to the Controller of Examinations for further necessary action.
22. When a candidate is expelled from an examination, the Factotum/ Head Invigilator should obtain from him/her, before he/she leaves the Examination hall, an explanation, if he/she has any to make, and attach it to his/her report.

23. The Head Invigilator (External/ Internal) of the affiliated college/ Factotum of the University should countersign all reports made by the Invigilators at the end of the Examination in each paper.
24. At the conclusion of each paper, the answer books tied with supplement(s), if any, should be carefully counted and packed along with pertinent Question Paper(s) and Invigilators Report(s) in the presence of the Factotums/ Head Invigilators.
25. The Factotums/ Head Invigilators will be responsible for safe delivery of all answer books in the Examinations Department along with any reported case(s).
26. Within a week of the conclusion of the whole Examination, the Factotum(s)/ Head Invigilator(s) shall forward to the Controller of Examinations statement showing the respective vouchers, Remuneration bills of Invigilators /Factotums/ Head Invigilators and a report on the conduct of the examination.
27. On receipt of a report regarding the misconduct of any candidate at any Examination, including breach of any of the Regulations or instructions laid down for the proper conduct of Examination, the Syndicate/ Vice-Chancellor shall have power to impose penalty on account of such misconduct or breach of Regulations/ Instructions on merit of the case as per recommendation of the Unfair means Control Committee/ Discipline Committee.
28. On recommendation of the Controller of Examinations, the Vice-Chancellor shall approve the names of Tabulators and Checkers for compilation & scrutiny of results of Regular/ Supplementary Examinations of the University. The remuneration shall be paid to concerned officials as may be fixed by the competent authority subject to completion of assigned task in all respects to be certified by the Controller of Examinations.
29. As soon as a result is announced, the Controller of Examinations of the University shall send copies of Result Gazettes to all concerned Deans, Directors/ Chairmen of the University, for display/ office record. The declared results shall be subject to rectification at any stage on the basis of original record if any error/ omission is found to have occurred inadvertently and as such this shall be reflected in the Marks/Grade/ Pass Certificate in the form of Note.

The following certificates may be issued to the students by the Controller of Examinations/ authorized Dy. Controller or Asstt: Controller of Examinations on receipt of prescribed fees.

Pass Certificate for each Degree Course

- (ii) Marks/ Grade Certificate for each Term/ Semester.
- (iii) Transcript.
- (iv) Over-all Cumulative G.P.A. Certificate for all years of the course.
- (v) Appearance Certificate.
- (vi) POSITION / Merit Certificate.
- (vii) Award Certificate.

UNDERTAKING

(The following undertaking is to be furnished by the candidates for admission on judicial stamp paper of Rs.100/- at the time of registration.)

I _____ S/o

R/o,

do hereby state on solemn affirmation that I shall:

- a) Abide by all the rules / regulations regarding admission, conduct of Academic Program, Discipline, behavior etc. in force in University at present or to be approved and implemented in future.
- b) Confine my activities to the academic pursuits during my studies in the University and would not indulge in any political, Un-social activities directly or indirectly and shall be liable to be expelled from the University, in case I am found involved in any such activities.
- c) Never use violence or threat or pressure or any dispute with others.
- d) Not hold a gathering or meeting or take out processions in any part of the University campus other than the areas specified for the purpose.
- e) Not indulge in any kind of unfair or unlawful means / malpractice in examination and coercion by any means.
- f) Not bring into campus, consume or encourage, consumption of alcoholic products, drugs and narcotics not indulge in acts of moral turpitude.
- g) Not bring or keep any type of weapons within the University premises.
- h) Not damage any University property, including building, equipment, vehicles etc in any manner.
- i) In case of violation of any of the undertaking as herein above given by me I shall not only be liable for disciplinary action as per university rules but shall also be liable for criminal prosecution under law of land.

Place: _____

Date: _____

Signature of the Applicant / Candidate

[illegible]

C.N.I.C NO



**BENAZIR BHUTTO SHAHEED
UNIVERSITY OF TECHNOLOGY & SKILL DEVELOPMENT
(BBS-UTECH), KHAIRPUR MIRS**

