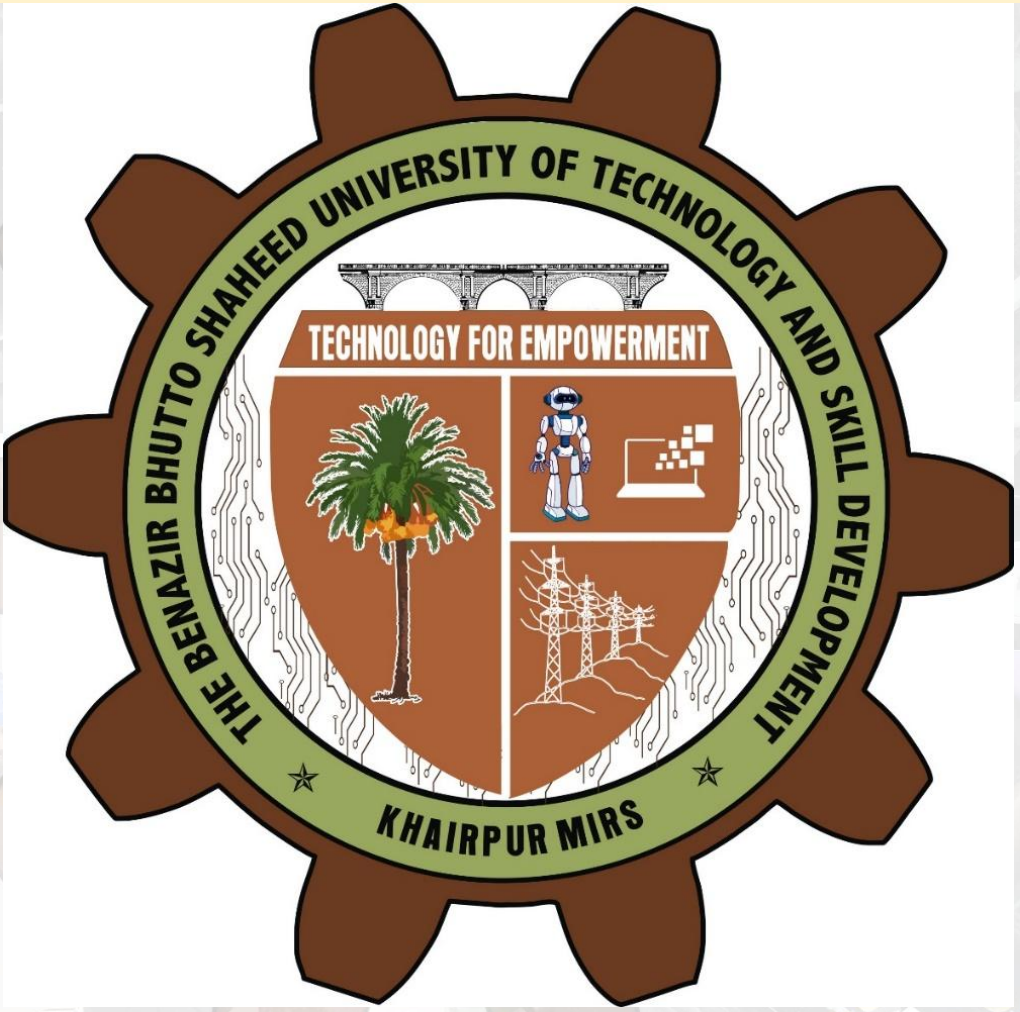
THE BENAZIR BHUTTO SHAHEED UNIVERSITY OF TECHNOLOGY AND SKILL DEVELOPMENT KHAIRPUR MIRS



POSTGRADUATE PROSPECTUS (2026-27)

Disclaimer

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PROFESSOR (MERITORIUS) DR. RASOOL BUX MAHAR
(VICE CHANCELLOR, BBS-UTECH)

Vice Chancellor's Message

Dear University Community,

The opening of postgraduate study programs i.e. Master of Science (MS) at our university makes me very happy. Regarding our dedication to academic excellence and to addressing the changing demands of our students and society, these programs represent a major turning point.

With a focus on providing cutting-edge education, our MS programs in Civil, Electrical, Electronic and Mechanical Engineering Technologies will give our graduates the skills, knowledge, and expertise needed to succeed in a world that is always evolving. Our steadfast dedication to promoting innovation and excellence in education is demonstrated by the addition of these programs.

I want to express my gratitude to the academic departments and the directorate of postgraduate studies team who have put lot of efforts to create these programs and make sure they are both relevant and of the greatest caliber.

Together, we'll keep raising the bar for education.

Thank you for being part of our academic community, and I anticipate great accomplishments in the years to come.

Sincerely,

PROF. DR. RASOOL BUX MAHAR
Vice Chancellor
The Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTECH),
Khairpur Mirs, Sindh

Dean, Faculty of Engineering Technology's Message

I am delighted to share with you the exciting news of the launch of our Master of Science (MS) programs in Civil, Electrical, Electronic and Mechanical Engineering Technologies. This marks a significant milestone in our academic journey and reaffirms our commitment to innovation and excellence in engineering technology education.

These programs have been carefully crafted to offer our students a dynamic and comprehensive education that combines theoretical knowledge with practical skills by doing research in the specified fields of their interest. We are dedicated to preparing our graduates for the rapidly evolving and increasingly complex challenges of the engineering and technology fields.

To our current and prospective students, I encourage you to seize this opportunity to further your education and expand your horizons. Our MS programs will empower you to excel in your chosen field and become leaders in the world of engineering and technology. I have no doubt that these new programs will contribute to the continued success of our faculty and university, attracting bright minds and fostering innovation in engineering technology.

Thank you for being an essential part of our academic community, and I eagerly anticipate the remarkable achievements and contributions that will stem from these new MS programs.

Warm regards,

PROF. DR. MANTHAR ALI KEERIO
Dean, Faculty of Engineering Technology
The Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTECH),
Khairpur Mirs, Sindh

Advisor, Postgraduate Studies' Message

I am delighted to share with you the exciting news of our university's latest endeavor - the introduction of Master of Science (MS) programs in Civil, Electrical, Electronic and Mechanical Engineering Technologies.

The Higher Education Commission (HEC), Pakistan has granted No Objection Certificate (NOC) to offer MS Engineering Technology programs in the Civil, Electrical, Electronic and Mechanical Engineering Technologies. I believe that the grant of NOC to launch MS programs in Engineering Technology will be a fruit of all the efforts devoted in creating a high-quality education and the best research environment in the region.

The Directorate of Postgraduate studies will make continuous efforts to further activate this directorate for up-to-date information sharing regarding the updates on postgraduate studies programs through university website and platforms.

We aim to make this directorate a hub that cultivates global leaders with academic excellence and humanistic excellence, and constantly develop academic and professional knowledge, by realizing excellent faculty, excellent students and excellent facilities through research reform, education reform, and administration and infrastructure reform.

I would like to thank the higher authority of my university, the faculty members and the staff who have worked devotedly for this directorate and continued support to launch these programs, and I ask to all for your continued support and interest for the upcoming growth to a world-class postgraduate studies directorate at BBS-UTECH, Khairpur Mirs.

Thank you for being an integral part of our academic community, and I look forward to the continued success and innovation that these new programs will undoubtedly bring.

With Warm regards,

DR. SADAM HUSSAIN JAKHRANI
Advisor to Vice Chancellor on Postgraduate Studies
The Benazir Bhutto Shaheed University of Technology and Skill Development (BBS-UTECH)
Khairpur Mirs, Sindh

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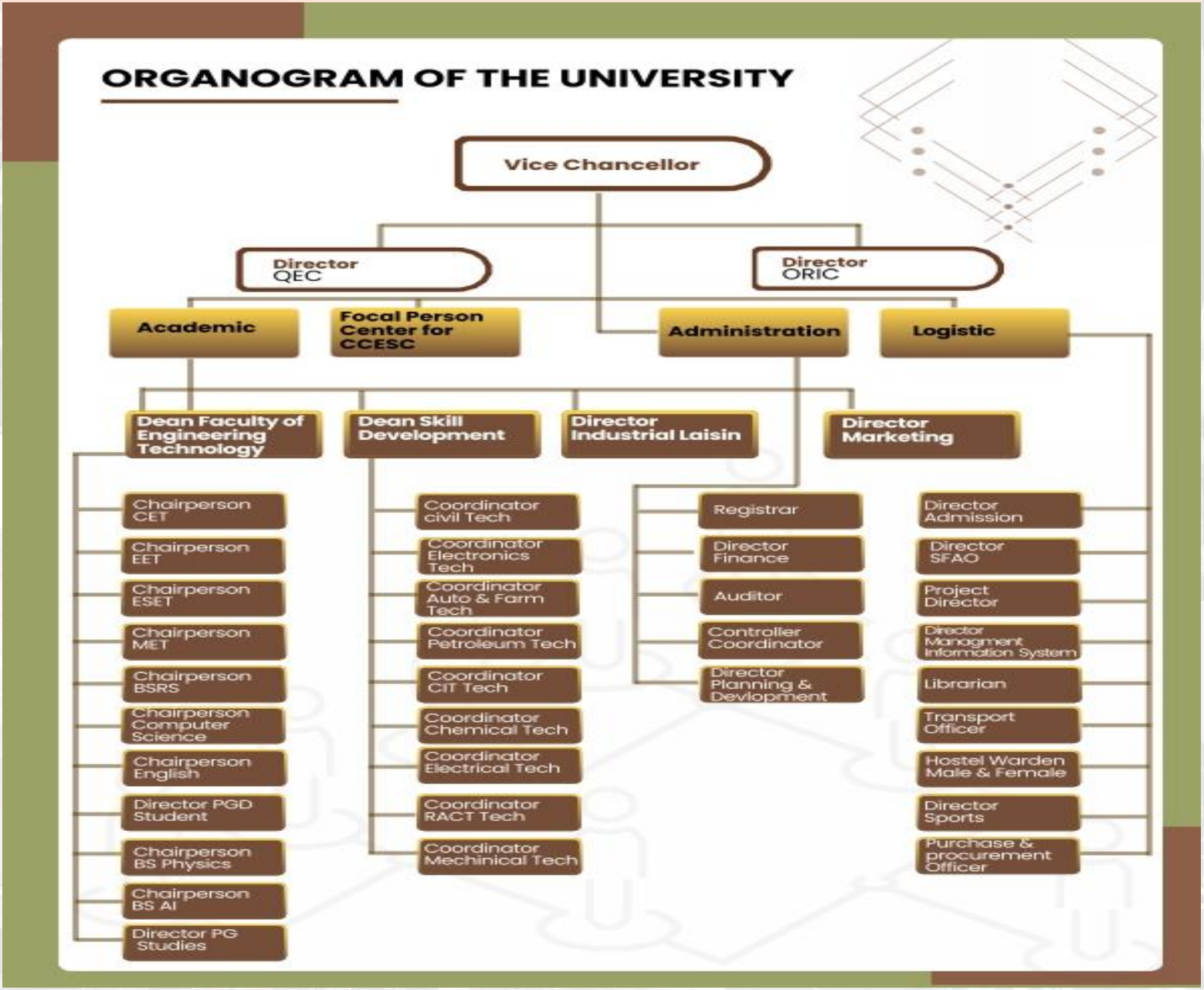

2. IN-CHARGES / HEADS OF THE SECTIONS

Sr. #	Name	Designation
1.	Engr. Prof. (Meritorious). Dr. Rasool Bux Mahar	Vice Chancellor
2.	Engr. Prof. Dr. Manthar Ali Keerio	Dean, Faculty of Engineering Technology
3.	Engr. Prof. Dr. Aftab Ahmed Soomro	Dean (Acting), Faculty of Skill Development
4.	Engr. Mir Sajjad Hussain Talpur	Registrar / Director, Planning and Development
5.	Mr. Kashif Raza Rind	Director, Finance
6.	Dr. Sadam Hussain Jakhrani	Advisor to Vice Chancellor on Postgraduate Studies
7.	Dr. Imdadullah Thaheem	In-charge Chairperson, Department of Mechanical Engineering Technology
8.	Dr. Muhammad Saleem Memon	In-charge Chairperson, Department of Electronics Engineering Technology
9.	Engr. Safdar Ali Abro	In-charge Chairperson, Department of Electrical Engineering Technology
10.	Engr. Muhammad Abubakar Shaikh	In-charge Chairperson, Department of Civil Engineering Technology
11.	Mr. Ghulam Abbas Junejo	In-charge Director, Office of Research Innovation & Commercialization / In-charge Director, Marketing
12.	Engr. Imdad Ali Siyal	Project Director (Acting Charge)
13.	Mr. Naveed Hussain Abro	Librarian
14.	Dr. Asim Ali Abro	Advisor to Vice Chancellor on QEC
15.	Engr. Abdul Shakoor Shaikh	Advisor to Vice Chancellor on SWO / SFAO
16.	Engr. Asmatullah Memon	Advisor to Vice Chancellor on Industrial Laision
17.	Mr. Riaz Ahmed Arain	Director, Admissions (Acting Charge)
18.	Mr. Sajjad Ali Lashari	Warden, Boys Hostel
19.	Ms. Zareen Arsalan	Deputy Controller, Examinations / Warden, Girls Hostel
20.	Mr. Waqar Ali Narejo	System Network Administrator
21.	Syed Ali Taqi Shah	Audit Officer
22.	Engr. Samiullah Pathan	Transport Officer
23.	Mr. Ghulam Hyder Baloch	Purchase & Procurement Officer

3. UNIVERSITY AT A GLANCE

3.1.Brief History

After the creation of Pakistan there were only few Technical Institutes in the country. Keeping in view the importance of technical education, the Government of Pakistan constituted a Council of Technical Education. In June 1948 a committee of Technical Experts was formulated by that council to carry out a survey of all Technical Institutes, review Industrial Development programs, access requirements of technical manpower & consult the industrialists and report to the provincial & central Governments for developing more such technical programs. The Committee recommended the scheme of polytechnics & the same was approved by the Council in September 1950.

Initially, this was a Technical Institute named as "Sir Ali Murad Technical Institute" which was later up-graded to the level of a Polytechnic Institute by the Government of West Pakistan in the year 1962. Later, it had been further up-graded as "Government College of Technology, Khairpur" in 1974 to offer the B. Tech. Degree Programs.

The Government College of Technology was upgraded to The Benazir Bhutto Shaheed University of Technology and Skill Development in 2016. The University is offering four year Bachelors of Engineering Technology, Bachelor of Science and three-year Diploma of Associate Engineering in different Technologies.

3.2.Introduction

The significance of education in technology has increased manifold for boosting of economy of a country after the industrial and computer revolutions. Economic growth through increase in agriculture & Industrial production and service sector is based on educated & skilled human resource. The skilled manpower for both production & service industry includes an Engineer, an Engineering Technologist and a Technician. An Engineering Technologist occupies an important and middle position in the pyramid of productive work force as a maintenance & operation expert. Engineering & Technology Universities produce Engineers and Engineering Technologist whereas the Colleges of Technology & Polytechnics produce Associate Engineers.

The Government of Sindh realizing the role & importance of Engineering Technologists and to provide higher education opportunities to Diploma of Associate Engineers, established the first University of Technology namely The Benazir Bhutto Shaheed University of Technology and Skill Development at Khairpur Mirs in 2016. Curriculum devised and approved by National Technology Council Islamabad is being taught to the students.

3.3.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.

3.4.Infrastructure

i. Administration Block (Vice Chancellor Secretariat, Registrar office, Examinations office, Directorate of Admissions)
ii. Academic Block (Departments of Civil, Electrical, Electronics & Mechanical Engineering Technology)
iii. Masjid
iv. Playground
v. Residential Colony for Employees
vi. Hostel for Faculty & Staff
vii. Hostel for Boys and Girls
viii. Library and Dispensary
ix. Furnished Classrooms and Equipped Laboratories
x. Smart Classroom and Auditorium Hall

4. VISION STATEMENT OF THE UNIVERSITY

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

5. MISSION STATEMENT OF THE UNIVERSITY

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.

6. AIM & OBJECTIVES OF THE UNIVERSITY

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 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

7. QUALITY ENHANCEMENT CELL (QEC)

7.1.Introduction

The foundation of Quality Enhancement Cell (QEC) at BBS-UTECH Khairpur Mir's was laid on 5th April 2018. The purpose behind its establishment is to enhance the academic standards of the institute by assisting in designing market-oriented curriculum, providing quality education on modern teaching lines, and creating research-based congenial environment which could support faculty in strengthening their skills. The role of the QEC within BBS-UTECH Khairpur Mir's is to monitor and enhance existing academic processes, procedures and practices implemented within academic and administrative departments while keeping in view the mandate given by HEC-Pakistan and in compliance with international quality assurance networks. Quality Assurance in Higher Education institutions refers to a wide range of framework, which reflects different interests and needs from time to time. According to HEC's quality assurance guidelines, the head of the institute is leading the cell; whereas, the cell is headed by the Director assisted by Assistant Director and Data Analyst respectively for implementation of various strategies

7.2.Mission Statement

"The QEC office revolves around promoting excellence, innovation, and accountability in all facets of the institution's operations. By actively engaging stakeholders and implementing effective quality assurance measures, we are committed to creating an educational ecosystem that empowers our students to excel academically, ethically, and as responsible global citizens. Through continuous improvement and a student-centric focus, BBS-UTECH Khairpur Mirs aspire to be at the forefront of educational transformation and contribute positively to the advancement of society."

7.3. Terms of References (TORs)

1. QEC is responsible for promoting public confidence that the quality and standards of the award of degrees are enhanced and safeguarded.
2. QEC is responsible for the review of quality standards and the quality of teaching and learning in each subject area.
3. QEC is responsible for the review of academic affiliations with other institutions in terms of effective management of standards and quality of programs.
4. QEC is responsible for defining clear and explicit standards as points of reference to the reviews to be carried out. It should also help the employees to know as to what they could expect from candidates.
5. QEC is responsible to develop qualifications framework by setting out the attributes and abilities that can be expected from the holder of a qualification, i.e. Bachelors, Bachelor with Honors, Master's, M. Phil., Doctoral.
6. QEC is responsible to develop program specifications. These are standard set of information clarifying what knowledge, understanding, skills and other attributes a student will have developed on successfully completing a specific program.
7. QEC is responsible to develop quality assurance processes and methods of evaluation to affirm that the quality of provision and the standard of awards are being maintained and to foster curriculum, subject and staff development, together with research and other scholarly activities.
8. QEC is responsible to ensure that the university's quality assurance procedures are designed to fit in with the arrangements in place nationally for maintaining and improving the quality of Higher Education.
9. QEC is responsible to develop procedures for the following:
    - Approval of new program
    - Annual Monitoring and evaluation including program monitoring, Faculty monitoring, and student perceptions.
    - Departmental review
    - Student feedback
    - Employer feedback
    - Quality assurance of Master's, M.Phil. and PhD degree programs
    - Subject review
    - Institutional assessment
    - Program specifications
    - Qualification framework

8. OFFICE OF RESEARCH INNOVATION AND COMMERCIALIZATION (ORIC)

The Office of Research, Innovation & Commercialization – ORIC at Benazir Bhutto Shaheed University of Technology and Skill Development – BBS-UTECH has been constituted with the aim to enhance research, innovation, and commercialization activities and programs. ORIC at BBS-UTECH has the mandate to promote research and development activities, capitalize commercialization inventions, and enhance innovation in addressing the problems faced by industry and society at large. ORIC extends its strategic and operational support to RIC activities at campus. As technologies have grown more sophisticated and emerging industries have become more high-tech, universities have become more important players in the processes of invention, innovation, and commercialization. To support the invention, innovation, and commercialization processes ORIC at BBS-UTECH

has played a central role since its inception. The university is in the initial phase of development and being the infant ORIC several initiatives have been taken to support and promote RIC activities.

The continuous professional development and technical trainings of faculty and researchers to conduct research remains at core services of ORIC. Considering this, ORIC at BBS-UTECH is continuously striving to equip researchers with required technical and professional skills for publishing quality research and innovating inventions to cater growing needs of industrial sector. In this connection, several research seminars, trainings, and workshops on various topics of interest are being organized from time to time for university fertility. ORIC is committed to continuing career development programs in research, innovation, and commercialization. In pursuit of strengthening research, innovation, and commercialization activities and programs, ORIC at BBS-UTECH has framed this framework and comprehensive research policy with the following mission, goals, and objectives.

8.1. Vision & Mission

To provide strategic and operational support to research, innovation, and commercialization activities and programs of university, by facilitating research community for research capacity building and productivity, innovation to commercialization, industry-academia linkages, technology transfer, and intellectual property management.

8.2. Objectives

Considering its mission statement, ORIC at BBS-UTECH has outlined objectives and goals;

- Build research capacity of researchers and faculty.
- Establish, maintain, and promote research activities and programs.
- Enable congenial and conducive environment for research.
- Promote research publications and products.
- Identify potential sources for research funding.
- Enhance innovation in addressing the problems faced by industry and society at large.
- Cultivate the culture of commercialization.
- Establish industry-academia linkages for RIC activities.
- Extend and energize entrepreneurial initiatives.
- Enable technology transfer programs.
- Manage intellectual property rights.
- Facilitate and support researchers for publication and presentation of research work.
- Proactively provide information about research funding opportunities to researchers.
- Facilitate timely completion of funded research and development projects.
- Maintain efficient and productive communication channels with funding agencies.

9. TENTATIVE ACADEMIC CALENDAR FOR SESION 2026-27

TENTATIVE ACADEMIC AND EXAMINATION SCHEDULE FOR MS PROGRAMS (2026~27)	
Activities in a Semester	**Duration**
Teaching duration	16 Weeks
Mid Semester Examination (including mid break)	01 Week
Final Semester Examination (including final break)	04 Weeks
Duration of One (01) Semester	21 Weeks
Duration of Two (02) Semesters	42 Weeks
Summer Break	08 Weeks
Winter Break	02 Weeks
Total	**52 Weeks**

TENTATIVE SCHEDULE FOR MS PRE-ADMISSION TEST FOR THE INTAKE SESSION 2026~27 (BATCH-03, FALL 2026)	
Batch	**Fall 2026 (Batch-03)**
Advertisement Issuance	15.06.2026
Last Date to Apply	13.07.2026
Entry Test	26.07.2026
Display of Merit List	29.07.2026

TENTATIVE ACADEMIC CALANDER FOR MS PROGRAMS FOR THE YEAR 2026-27				
Batch	**Fall 2025 (Batch-02)**		**Fall 2026 (Batch-03)**	
Semester	**Semester 03**	**Semester 04**	**Semester 01**	**Semester 02**
Registration Date & Deadline	30.07.2026 to 05.08.2026	21.12.2026 to 06.01.2027	30.07.2026 to 05.08.2026	22.12.2026 to 06.01.2027
Date of Start of Classes	05.08.2026	06.01.2027	05.08.2026	06.01.2027
Conduct of Mid-Semester Examination	29.09.2026	02.03.2027	29.09.2026	02.03.2027
Date of Suspension of Classes	27.11.2026	30.04.2027	27.11.2026	30.04.2027
Display of Sessional Marks	04.12.2026	07.05.2027	04.12.2026	07.05.2027
Conduct of Final Semester Examination	11.12.2026	14.05.2027	11.12.2026	14.05.2027
Announcement of Result	18.01.2027	31.05.2027	18.01.2027	31.05.2027

Note: * Winter Vacations from 21.12.2026 to 05.01.2027, and Summer Vacations from 01.06.2027 to 27.07.2027

10. POSTGRADUATE PROGRAMS BEING OFFERED

The university is presently offering following postgraduate programs;

i. Master of Science (MS) Civil Engineering Technology
ii. Master of Science (MS) Electrical Engineering Technology
iii. Master of Science (MS) Electronic Engineering Technology
iv. Master of Science (MS) Mechanical Engineering Technology

10.1. Master of Science (MS) Civil Engineering Technology

10.1.1. Vision

To become pioneer program in producing highly qualified and innovative civil engineering technologists that can solve technical problems in the field of civil engineering.

10.1.2. Mission

To become the leading program to produce highly qualified, innovative civil engineering technologists with a wide range of skills and expertise that can successfully tackle complex challenges in the field of civil engineering.

10.1.3. Rationale

In response to the fast-growing field of civil engineering, there is an increasing need for professionals who possess not only practical expertise but also the skills to integrate new technologies and sustainable practices into their work. This program addresses this need by offering in-depth knowledge and practical skills to the students in the field of structural engineering, geotechnical engineering, water resources engineering, water and wastewater engineering, highways and transportation engineering, construction engineering etc. This program also solves many industrial problems related to different civil engineering fields through innovative, sustainable, emerging and applied research.

10.1.4. Preamble

The program aims to bridge the gap between theoretical knowledge and real-world applications in advanced level by preparing the graduates to further excel in various disciplines of the civil engineering.

10.1.5. Scope

The civil engineering technology covers the sub-disciplines like sustainable and emerging construction materials, structural analysis and design, transportation engineering, geotechnical engineering, environmental sustainability, irrigation and hydraulics and construction management, which covered by this program. The program emphasizes hands-on experience, research, and collaboration with industry partners.

10.1.6. Objectives

i. To prepare graduate students for a better understanding of civil engineering principles and their practical application.
ii. To strengthen the critical thinking and problem solving skills of the graduates in the field of civil engineering, to deal with complex problems.
iii. To support research and innovation in civil engineering technology through the collaboration of projects and thesis work.
iv. Fostering good practice in civil engineering projects and designs on the basis of ethics and sustainability.
v. To help in increasing the learning experience, by facilitating communication and collaboration between graduates, teachers and industry professionals.

10.1.7. Outcomes

The followings are the listed program outcomes of the MS-CET program at BBS-UTECH, Khairpur Mirs.

1. Graduates demonstrate in-depth knowledge of core civil engineering technology concepts.
2. Ability to apply theoretical principles to solve real-world engineering technology challenges.
3. Competence in using advanced tools, software, and techniques relevant to the field.
4. Enhanced analytical and decision-making abilities in engineering technology scenarios.
5. Ability to design and implement innovative solutions to broad technical problems.
6. Proficiency in interpreting data, codes, and technical standards to support effective problem solving.
7. Graduates undertake original research contributing to advancements in civil engineering technology.
8. Ability to design and conduct experiments, analyze results, and draw meaningful conclusions.
9. Increased involvement in interdisciplinary and industry-relevant research initiatives.
10. Awareness and application of ethical standards in professional practice.
11. Integration of sustainability principles in planning, design, and construction processes.
12. Responsible decision-making that balances technical, environmental, and societal factors.
13. Improved communication and teamwork skills for effective professional collaboration.
14. Active engagement with industry through seminars, internships, and joint projects.
15. Graduates develop professional networks that support continuous learning and career development.

10.1.8. List of Faculty Members

Sr. No.	Name	Designation
1	**Engr. Prof. (Meritorious) Dr. Rasool Bux Mahar** B.E (Civil), M.E (Civil), PhD (Environment Engineering)	Vice Chancellor
2	**Prof. Dr. Manthar Ali Keerio** B.E (Civil), M.E (Irrigation & Hydraulic), PhD (Civil Engineering)	Professor / Dean, FoET
3	**Engr. Muhammad Abubakar Shaikh** B.E (Civil), M.E (Structural Engineering)	Assistant Professor / In-charge Chairperson
4	**Dr. Sadam Hussain Jakhrani** B.E (Civil), M.E (Civil), PhD (Concrete Structural Engineering)	Associate Professor / Advisor, PGS
5	**Dr. Asim Ali Abro** B.E (Civil), M.E (Energy & Environment), PhD (Environment Engineering)	Assistant Professor / Advisor, QEC
6	**Engr. Shamotra** B.E (Civil), M.E (Hydraulic, Irrigation & Drainage), PhD (In-progress)	Assistant Professor (On Study Leave)
7	**Engr. Jawad Akhtar Siddiqui** B.E (Civil), M.E (Civil)	Lecturer
8	**Engr. Jabir Ali Keerio** B.E (Civil), M.E (Civil)	Lecturer
9	**Engr. Arun Kumar** B.E (Civil), M.E (Civil)	Lecturer
10	**Engr. Akhtar Ali Sargani** B.E (Civil), M.E (Civil)	Lecturer

10.1.9. Scheme of Studies (MS Civil Engineering Technology)

1st Semester – 1st Year						
Sr. No.	Course Code	Course Title	Credit Hours		Marks	
			Th	Pr	Th	Pr
01	CET-511	Advanced Civil Engineering Materials	03	00	100	00
02	CET-512	Water Resources Engineering and GIS	03	00	100	00
03	CET-513	Research Methodology	02	00	50	00
04	HUM-514 / HUM-515	Fehm-e-Quran-I / Civics and Community Engagement-I	00	01	00	50
Total			08	01	250	50
2nd Semester – 1st Year						
Sr. No.	Course Code	Course Title	Credit Hours		Marks	
			Th	Pr	Th	Pr
01	CET-521	Advanced Concrete Technology	03	00	100	00
02	CET-522	Wastewater Treatment and Design	03	00	100	00
03	MTH-523	Probability and Statistics	02	00	50	00
04	HUM-524 / HUM-525	Fehm-e-Quran-II / Civics and Community Engagement-II	00	01	00	50
Total			08	01	250	50
1st Semester – 2nd Year						
Sr. No.	Course Code	Course Title	Credit Hours		Marks	
			Th	Pr	Th	Pr
01	CET-611	Repair and Maintenance of RCC Structures	03	00	100	00
02	CET-612	Advanced Geotechnical Engineering	03	00	100	00
03	CET-613	Highways and Traffic Engineering	02	00	50	00
Total			08	00	250	00
2nd Semester – 2nd Year (Mandatory for MS by Coursework)						
Sr. No.	Course Code	Course Title	Credit Hours		Marks	
			Th	Pr	Th	Pr
01	CET-621	Construction Planning and Project Management	03	00	100	00
02	CET-622	Advanced Reinforced and Pre-Stressed Concrete	03	00	100	00
Total			06	00	200	00
2nd Semester – 2nd Year (Mandatory for MS by Thesis / Dissertation)						
Sr. No.	Course Code	Course Title	Credit Hours			
			Th		Pr	
01	CET-623	Thesis / Dissertation	00		06	
Total			06			
Total Credit Hours (1st to 4th Semester)			32			

10.2. Master of Science (MS) Electrical Engineering Technology

10.2.1. Vision

To be a global leader in Electrical Engineering Technology education and research, fostering innovation, excellence, and societal impact through an advanced and comprehensive master's program in electrical technology.

10.2.2. Mission:

To produce graduates who lead in a rapidly evolving technological landscape and drive positive societal impact by equipping them with cutting-edge technical skills, critical thinking abilities, and a deep understanding of the ever-changing electrical technologies.

10.2.3. Rationale:

Electrical engineering technology is developing rapidly thus there is a rising demand for individuals that have the expertise in the field with the abilities to incorporate cutting-edge methods and sustainable practices into their work. This program fills that demand by fostering modern technical proficiency, critical thinking skills, and a comprehension of the electrical technologies that are rapidly advancing.

10.2.4. Preamble:

The program aims to bridge the gap between theoretical knowledge and real-world applications in advanced level by preparing the graduates to further excel in various disciplines of the electrical engineering technology.

10.2.5. Scope:

The electrical engineering technology master's program covers the sub-disciplines such as power quality; electrical power transmission and distribution; power system operation, control, analysis, and protection; power electronics and motor drives; FACTS and HVDC; and power system planning and management. The program emphasizes hands-on experience, research, and collaboration with industry partners.

10.2.6. Objectives:

i. To prepare students for a better understanding of electrical engineering principles and their practical application.
ii. To strengthen critical thinking and problem-solving skills in the field of electrical engineering, to deal with complex problems.
iii. To support research and innovation in electrical engineering technology through the collaboration of projects and thesis work.
iv. Fostering good practice in electrical engineering projects and designs based on ethics and sustainability.
v. To help increase the learning experience, by facilitating communication and collaboration between students, teachers, and industry professionals.

10.2.7. List of Faculty Members

Sr. No.	Name	Designation
1	**Dr. Safdar Ali Abro** B.E (Electrical), M.E (Electrical), PhD (Electrical)	Assistant Professor / In-charge Chairperson
2	**Dr. Hassan Ali Soomro** B.E (Electrical), M.E (Electrical), PhD (Electrical)	Assistant Professor
3	**Dr. Ali Raza Chachar** B.E (Electrical), M.E (Electrical), PhD (Electrical)	Assistant Professor
4	**Engr. Muzamil Hussain Wadho** B.E (Electrical), M.E (Electrical), PhD (In-progress)	Assistant Professor
5	**Engr. Syed Ali Shan** B.E (Electrical), M.E (Electrical)-On Lien	Lecturer
6	**Engr. Aftab Ali Samejo** B.E (Electrical), M.E (Electrical), PhD (In-progress)	Lecturer
7	**Engr. Furqan Latif Memon** B.E (Electrical), M.E (Electrical), PhD (In-progress)	Lecturer
8	**Engr. Khalid Hussain Shah** B.E (Electrical), M.E (Electrical)	Lecturer

10.2.8. Scheme of Studies (MS Electrical Engineering Technology)

1st Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EET-511	Power Quality	03	00	100	00
02	EET-512	Electrical Power Transmission and Distribution	03	00	100	00
03	EET-513	Research Methodology	02	00	50	00
04	HUM-514 / HUM-515	Fehm-e-Quran-I / Civics and Community Engagement-I	00	01	00	50
Total			**08**	**01**	**250**	**50**
2nd Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EET- 521	Power Electronics and Motor Drives	03	00	100	00
02	EET-522	Advanced Power System Analysis	03	00	100	00
03	EET-523	Power System Operation and Control	03	00	100	00
04	HUM-524 / HUM-525	Fehm-e-Quran-II / Civics and Community Engagement-II	00	01	00	50
Total			**09**	**01**	**300**	**50**
1st Semester – 2nd Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EET- 611	FACTS and HVDC	02	00	50	00
02	EET-612	Power System Planning and Management	02	00	50	00
03	EET-613	Power System Protection	03	00	100	00
Total			**07**	**00**	**200**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Coursework)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EET- 621	Clean Energy Technologies	03	00	100	00
02	EET-622	Advanced High Voltage Engineering	03	00	100	00
Total			**06**	**00**	**200**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Thesis / Dissertation)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**			
			Th		**Pr**	
01	EET-623	Thesis / Dissertation	00		06	
Total			**06**			
Total Credit Hours (1st to 4th Semester)			**32**			

10.3. Master of Science (MS) Electronic Engineering Technology

10.3.1. Vision

To be a globally recognized leader in producing highly skilled and innovative electronics engineering technologists, contributing to advancements in technology and addressing real-world challenges.

10.3.2. Mission:

Our mission is to provide a comprehensive and advanced education in electronics engineering technology, emphasizing hands-on practical skills, critical thinking, and research-driven approaches. We aim to foster a collaborative learning environment that equips students with the knowledge and expertise needed to excel in various industries and make valuable contributions to the field.

10.3.3. Rationale:

The field of electronics engineering is rapidly evolving, with emerging technologies such as IoT, 5G, automation, and renewable energy requiring a new breed of professionals. This MS program addresses the growing demand for electronics engineering technologists who possess not only theoretical knowledge but also practical skills to design, implement, and maintain complex electronic systems.

10.3.4. Preamble:

The MS in Electronics Engineering Technology program is designed for individuals seeking to deepen their understanding of advanced electronics concepts and applications. Rooted in a strong theoretical foundation, the program emphasizes the integration of hands-on experience, research, and industry collaboration. Graduates will be prepared to take on leadership roles, driving innovation, and effectively solving real-world challenges in the electronics industry.

10.3.5. Scope:

The program covers a wide range of topics within electronics engineering technology, including advanced circuit design, digital signal processing, embedded systems, communication systems, control systems, and sustainable electronics practices. Students will engage in practical lab work, research projects, and industry internships to gain practical experience and stay current with industry trends.

10.3.6. Objectives:

i. Provide students with an in-depth understanding of advanced electronics principles, theories, and practices, enabling them to analyze and solve complex engineering problems.
ii. Develop practical skills through laboratory work, simulations, and projects, enabling students to design, build, and test electronic systems effectively.
iii. Cultivate research abilities, encouraging students to explore innovative solutions, contribute to academic advancements, and address industry-specific challenges.
iv. Ensure the program remains up-to-date with industry requirements by fostering collaboration with technology companies, inviting guest speakers, and incorporating real-world case studies.
v. Instill a sense of ethics, responsibility, and sustainability in students, encouraging them to consider environmental and societal impacts in their engineering endeavors.
vi. Enhance students' communication and teamwork skills, enabling them to articulate ideas clearly, collaborate across disciplines, and work effectively in diverse environments.
vii. Foster leadership qualities and a mindset of continuous innovation, empowering graduates to drive positive changes in the electronics engineering field.

viii. Prepare graduates for successful careers in various industries such as telecommunications, aerospace, manufacturing, and renewable energy, with the ability to adapt to evolving technological landscapes.

ix. Instill a passion for lifelong learning, encouraging graduates to stay updated with the latest advancements, pursue further education, and remain valuable contributors to the field.

x. By combining a solid theoretical foundation, practical skills development, research emphasis, and industry collaboration, the MS in Electronics Engineering Technology program aims to produce well-rounded and highly competent electronics engineering technologists who can shape the future of technology.

10.3.7. List of Faculty Members

Sr. No.	Name	Designation
1	**Dr. Muhammad Saleem Memon** B.E (Electronics), M.E (Electronics), PhD (Power Electronics)	Assistant Professor / In-charge Chairperson
2	**Dr. Muhammad Hanif Ahmed Khan Khushik** B.E (Electronics), M.E (Electronics), PhD (Information & Computer Technology)	Assistant Professor
3	**Dr. Ronak Ali** B.E (Electronics), M.E (Control & Automation), PhD (Electronic Sensors)	Assistant Professor
4	**Engr. Shazia Feroz** B.E (Electronics), M.E (Electrical Power), PhD (In-progress)	Assistant Professor
5	**Engr. Kundan Kumar** B.E (Electronics), M.E (Control & Automation)-On Lien	Assistant Professor
6	**Engr. Ghalib Raza Solangi** B.E (Electronics), M.E (Electronic System Engineering), PhD (In-progress)	Assistant Professor
7	**Engr. Izhar Hussain Memon** B.E (Electronics), M.E (Renewable Energy), PhD (In-progress)	Lecturer
8	**Engr. Saadia Kulsoom Memon** B.E (Electronics), M.E (Communication Systems and Networks), PhD (In-progress)	Lecturer
9	**Engr. Arif Hussain** B.E (Electronics), M.E (Electronic System Design)	Lecturer

10.3.8. Scheme of Studies (MS Electronic Engineering Technology)

1st Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EST- 511	Electronic Instrumentation and Data Acquisition System	03	00	100	00
02	EST-512	Nanotechnology	03	00	100	00
03	EST-513	Research Methodology	02	00	50	00
04	HUM-514 / HUM-515	Fehm-e-Quran-I / Civics and Community Engagement-I	00	01	00	50
Total			**08**	**01**	**250**	**50**
2nd Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EST- 521	Modern trends in Electronics System Design	02	00	50	00
02	EST-522	Modeling and Control of Dynamic Systems	03	00	100	00
03	EST-523	Advanced Digital Signal Processing	03	00	100	00
04	HUM-524 / HUM-525	Fehm-e-Quran-II / Civics and Community Engagement-II	00	01	00	50
Total			**08**	**01**	**250**	**50**
1st Semester – 2nd Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EST- 611	Advanced Embedded System Design	03	00	100	00
02	EST-612	Advance FPGA based System Design	03	00	100	00
03	EST-613	Communication System Technologies	02	00	50	00
Total			**08**	**00**	**250**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Coursework)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	EST- 621	Power Electronics and Drives	03	00	100	00
02	EST-622	Artificial Intelligence	03	00	100	00
Total			**06**	**00**	**200**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Thesis / Dissertation)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**			
			Th		**Pr**	
01	EST-623	Thesis / Dissertation	00		06	
Total			**06**			
Total Credit Hours (1st to 4th Semester)			**32**			

10.4. Master of Science (MS) Mechanical Engineering Technology

10.4.1. Vision

To be a center of excellence that creates research-oriented environment with innovation and sustainable socio-economic development.

10.4.2. Mission:

To produce competent graduates having creative thinking to adopt innovative skills in the engineering technological domain to achieve smart projects which contributes in the national economic growth at optimum level.

10.4.3. Rationale:

Mechanical Engineering Technology is rapidly growing in the field of manufacturing processes to fulfil the rising demand of market by using various automation techniques. It develops the concepts of Computer Integrated Manufacturing, Flexible Manufacturing System and automated flow control systems which maintain the supply chain management. This program is driven by analytical and critical thinking approach fostering modern technical proficiency.

10.4.4. Preamble:

The program aims to solve the real-world application problems by using theoretical knowledge and practical skills with innovative techniques. The graduates be able to transform skill-based environment and excel in various disciplines in the field of Mechanical Engineering Technology.

10.4.5. Scope:

The master's program of Mechanical Engineering Technology covers the sub-disciplines such as Advanced Manufacturing Processes, Fluid flow and heat transfer, Renewable Energy Systems, Operation Research, Implementation of computer integrated manufacturing in SMEs, Hydrogen Technologies and Fuel Cells, Advanced Power Plant Systems, Computational fluid dynamics, Advanced Engineering Materials, Product Design and Development. The program emphasizes hands-on experience, research, and collaboration with industry partners.

10.4.6. Objectives:

i. To produce graduates for a better understanding of mechanical engineering principles and their practical applications.
ii. To strengthen critical thinking and problem-solving skills in the field of mechanical engineering technology, to deal with complex problems.
iii. To support research and innovation in mechanical engineering technology through the collaboration of projects and thesis work.
iv. To develop best practices approach in mechanical engineering projects based on ethical norms and sustainability.
v. To enhance the learning experience, by communication skills and collaboration between students, teachers, and industry professionals.

10.4.7. List of Faculty Members

Sr. No.	Name	Designation
1	**Dr. Imdadullah Thaheem** B.E (Mechanical), M.E (Energy Systems), PhD (Energy Science & Engineering)	Associate Professor / In-charge Chairperson
2	**Dr. Aftab Ahmed Soomro** B.E (Mechanical), M.E (Thermal System), PhD (Mechanical)	Professor / Dean, FoSD
3	**Engr. Abdul Shakoor Shaikh** B.E (Petroleum & Natural Gas), M.E (Energy Systems), PhD (In-progress)	Assistant Professor / Advisor, SWO
4	**Engr. Ayaz Ali Mandan** B.E (Mechanical), M.E (Energy & Environment), PhD (In-progress)	Assistant Professor
5	**Engr. Abdul Qadir Channa** B.E (Mechanical), M.E (Mechatronics), PhD (In-progress)	Lecturer
6	**Engr. Ali Mustafa Shah** B.E (Mechanical), M.E (Energy Systems)	Lecturer
7	**Engr. Asmatullah Memon** B.E (Mechanical), M.E (Energy Systems)	Lecturer
8	**Engrt. Rukhsar Ali Mazari** B.Tech (Mechanical), MS (Mechanical Engineering Technology)	Lecturer

10.4.8. Scheme of Studies (MS Mechanical Engineering Technology)

1st Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	MET-511	Advanced Manufacturing Processes	03	00	100	00
02	MET-512	Fluid Flow and Heat Transfer	03	00	100	00
03	MET-513	Research Methodology	02	00	50	00
04	HUM-514 / HUM-515	Fehm-e-Quran-I / Civics and Community Engagement-I	00	01	00	50
Total			**08**	**01**	**250**	**50**
2nd Semester – 1st Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	MET-521	Renewable Energy Systems	03	00	100	00
02	MET-522	Operations Research	03	00	100	00
03	MET-523	Hydrogen Technologies and Fuel Cells	02	00	50	00
04	HUM-524 / HUM-525	Fehm-e-Quran-II / Civics and Community Engagement-II	00	01	00	50
Total			**08**	**01**	**250**	**50**
1st Semester – 2nd Year						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	MET-611	Advanced Power Plant Systems	03	00	100	00
02	MET-612	Advanced Mechatronics	02	00	50	00
03	MET-613	Computational Fluid Dynamics (CFD)	03	00	100	00
Total			**08**	**00**	**250**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Coursework)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**		**Marks**	
			Th	**Pr**	**Th**	**Pr**
01	MET-621	Advanced Engineering Materials	03	00	100	00
02	MET-622	Product Design and Development	03	00	100	00
Total			**06**	**00**	**200**	**00**
2nd Semester – 2nd Year (Mandatory for MS by Thesis / Dissertation)						
Sr. No.	**Course Code**	**Course Title**	**Credit Hours**			
			Th		**Pr**	
01	MET-623	Thesis / Dissertation	00		06	
Total			**06**			
Total Credit Hours (1st to 4th Semester)			**32**			

11. GENERAL REGULATIONS FOR MASTER OF SCIENCE (MS) IN ENGINEERING TECHNOLOGY PROGRAM AT BBS-UTECH KHAIRPUR MIRS

11.1. Title of Regulations

These Regulations shall be called "Benazir Bhutto Shaheed University of Technology and Skill Development Khairpur Mirs for Award of Master of Science (MS) in Engineering Technology Degree Program – 2023".

11.2. Title of Degree

The title of degree shall be called "Master of Science (MS) in Engineering Technology".

11.3. Commencement

These Regulations shall be deemed to have come into force with immediate effect from the date of approval.

11.4. Definitions

In these Regulations unless otherwise expressly stated.

(i) "University" means Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs.
(ii) "College" means the constituent; Affiliated College of the University.
(iii) "Campus" means the constituent campus of the University.
(iv) "Vice Chancellor" means the Vice Chancellor of the University.
(v) "Principal" means the Principal of the constituent affiliated college of the university.
(vi) "Pro-vice Chancellor" means the Pro-vice Chancellor of the university / campus.
(vii) "Dean" means the Dean of the Faculty concerned of the University.
(viii) "Chairperson" means the chairperson of concerned department of the university.
(ix) "Director Postgraduate Studies means the Director Postgraduate Studies of the university / campus.
(x) "Supervisor" means the supervisor of the student who will supervise/guide/advise the student for carrying-out the research work.
(xi) "Co-supervisor" means the co-supervisor of the student who on behalf of the supervisor will assist/guide the students for carrying-out the research in particular area.
(xii) "Controller of Examinations" means the Controller of Examinations of the University.
(xiii) "Disciplinary Committee" means the Disciplinary Committee of the University.
(xiv) "Director ORIC" means the Director ORIC of the University.
(xv) "Departmental Committee" means the Departmental Committee of the concerned department of the University.
(xvi) "Academic Year" means the Academic Year of the University.
(xvii) "Semester" means a period of sixteen (16) weeks out of an academic year for teaching (excluding mid and final semester examinations).
(xviii) "Credit Hour (Cr. Hr.)" means one credit hour for a particular course is generally considered as one hour of teaching theory per week.
(xix) "Quality Point (QP)" means the value obtained by multiplying grade obtained by student with the credit hours of that course.
(xx) "Grade Point Average (GPA)" means a value obtained by dividing sum of quality points by sum of credit hours offered during a particular semester.

(xxi) "Cumulative Grade Point Average (CGPA)" means the value obtained by dividing sum of quality points for all the courses appeared by sum of credit hours for all the courses appeared.

11.5. Requirement to Launch MS Engineering Technology Programs

For launching/starting a MS program, the concerned department must meet the minimum criteria of having teaching faculty members as per HEC guidelines. Furthermore, the research field of the PhD faculty members should match with the title of the program.

(i) To be eligible for admission to the Master of Science (MS) in Engineering Technology degree program at BBS-UTECH, the candidate must possess relevant bachelor's degree (B.E. / BS / B.Tech. (Hons.) / B. Tech. (04 years) / BSc with 16 years education in Engineering / Technology / Engineering Technology from a HEC recognized Institution with minimum CGPA 2.0 out 4.0 or 50% marks in terminal / annual examination.

(ii) The candidates who have a relevant bachelor's degree (16 years education) from foreign university, he/she must submit the verified copy of equivalence certificate obtained from HEC Pakistan along with the application form.

(iii) The candidates have to produce valid and relevant GRE test score, or GAT (General/Subject) test score conducted by National Testing Service (NTS), or HAT gener0al test conducted by HEC with minimum 50% score or have to appear and qualify the GAT (General) type test to be conducted by the University with minimum 50% score.

(iv) The merit list will be prepared by the university, where the admission will be given to top thirty (30) candidates in each program per intake. The subsequent criterion will be followed for merit calculation.

  (a) 50% weightage from the valid GRE/GAT test or Test to be conducted by the university.
  (b) 50% weightage from relevant field of undergraduate studies (16 years education).

(v) The applicant must submit the Online / Manual Application Form duly completed in all respects, along with the relevant documents to the Director, Postgraduate Studies (PGS) on or before the last date during the office hours for this purpose, after which no application shall be entertained.

(vi) The Director Postgraduate Studies will process applications received and will prepare merit list of the candidates who qualify the test for admission and put up to Vice-Chancellor for approval.

(vii) Selected candidates for admission to the programs will be informed of their selection by notification/letter issued by Director Postgraduate Studies or their names will be displayed on the University notice board as well as departmental notice board and on website of the University.

(viii) The selected candidates will be required to report to the Director, PGS for verification of their documents and payment of prescribed fees and seek registration within stipulated time as mentioned in the admission notification/letter. The Director PGS shall assign registration number to each student.

(ix) The classes for MS in each program will commence when at least TEN (10) students are enrolled for a given program. The maximum number of enrolments, in each program is limited to THIRTY (30) students.

(x) The Director, PGS shall request the chairpersons of the concerned departments for allocation of subject teachers for the courses that are to be taught in the semester.

(xi) The Director, PGS shall forward the names of the candidates admitted in the due course of time to the concerned Chairperson for arranging their classes in the department. Though the classes of MS will commence only when at least TEN (10) students are enrolled for a given course.

(xii) No student will be admitted after two (02) weeks of the commencement of the classes.

(xiii) A postgraduate student, if employed, will be required to submit "**No Objection Certificate**" along with application form for admission from his/her employer before registration stating that he/she would be permitted to attend the classes regularly during the period of his/her studies.

(xiv) If any of the particulars given by the candidate in his / her application for admission or at any stage after getting admission are found to be incorrect or facts suppressed, his / her admission shall stand cancelled, and he / she shall be expelled from the University.

(xv) A candidate who is already enrolled in some other institution is ineligible to get admission in this University. If any case is detected where a student enrolled in this University is also student of some other Institution, his / her admission in the University shall be stand cancelled and a penalty/fine will be imposed on him/her by the disciplinary committee of the university.

(xvi) At the time of admission, selected candidates shall submit an undertaking to abide by all the rules of the University and not indulge in any political / religious and any other unethical activity.

Table 1- The list of eligible disciplines for each MS engineering Technology programs

MS Program	Eligible Disciplines
Civil Engineering Technology	i. Civil Engineering / Technology / Engineering Technology ii. Geotechnical Engineering / Technology / Engineering Technology iii. Highway & / or Transportation Engineering / Technology / Engineering Technology iv. Environmental Engineering / Technology / Engineering Technology v. Structural Engineering / Technology / Engineering Technology vi. Construction Engineering / Technology / Engineering Technology vii. Water Resources Engineering / Technology / Engineering Technology viii. Irrigation Engineering / Technology / Engineering Technology ix. Drainage Engineering / Technology / Engineering Technology x. Architecture Engineering / Technology / Engineering Technology xi. Agricultural Engineering / Technology / Engineering Technology xii. Building Engineering / Technology / Engineering Technology xiii. Geological Engineering / Technology / Engineering Technology xiv. Any other relevant field as per UNESCO's subject classification.
Electrical Engineering Technology	i. Electrical Engineering / Technology / Engineering Technology ii. Electronics Engineering / Technology / Engineering Technology iii. Energy Systems Engineering / Technology / Engineering Technology iv. Mechatronics Engineering / Technology / Engineering Technology v. Any other relevant field as per UNESCO's subject classification.
Electronic Engineering Technology	i. Electronics Engineering / Technology / Engineering Technology ii. Electrical Engineering / Technology / Engineering Technology iii. Computer System Engineering / Technology / Engineering Technology iv. Telecommunication Engineering / Technology / Engineering Technology

	v. Mechatronics Engineering / Technology / Engineering Technology vi. Biomedical Engineering / Technology / Engineering Technology vii. Any other relevant field as per UNESCO's subject classification.
Mechanical Engineering Technology	i. Mechanical Engineering / Technology / Engineering Technology ii. Industrial Engineering / Technology / Engineering Technology iii. Manufacturing Engineering / Technology / Engineering Technology iv. Metallurgy & Materials Engineering / Technology / Engineering Technology v. Mechatronics Engineering / Technology / Engineering Technology vi. Automation & Control Engineering / Technology / Engineering Technology vii. Environment Engineering / Technology / Engineering Technology iii. Textile Engineering / Technology / Engineering Technology ix. Petroleum & Natural Gas Engineering / Technology / Engineering Technology x. Chemical Engineering / Technology / Engineering Technology xi. Energy Systems Engineering / Technology / Engineering Technology xii. Biomedical Engineering / Technology / Engineering Technology xiii. Mining Engineering / Technology / Engineering Technology xiv. Agricultural Engineering / Technology / Engineering Technology xv. Any other relevant field as per UNESCO's subject classification.

11.6. Duration of MS Engineering Technology Programs

(i) "The minimum period for completing degree of Masters (MS) in Engineering Technology shall be two (02) academic years (04 semesters) of and maximum period shall be four (04) academic years (08 semesters)."

(ii) In case a student is unable to complete the degree within the prescribed timeframe and claims for extension in duration, the university may constitute an appropriate authority/committee and determine the causes of delay. In the event of force majeure (i.e., delay on account of circumstance beyond the control of student), the university may grant an extension in the period of award of degree in accordance with the duration limiting factor(s) and shall also take corrective measures in case the delay is caused by process or administrative reasons.

11.7. Course of Studies for MS Engineering Technology Programs

(i) The courses of studies for the degree programs of the University shall be as recommended by the Board of Studies of the concerned department and approved by Advanced Studies & Research Board (ASRB) of the University from time to time.

(ii) 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 up to maximum of 09 for MS in Engineering Technology programs.

(iii) There shall be two (02) semesters in an academic year. The duration of teaching time in each semester will be sixteen (16) weeks excluding mid and final semester examination. Though, there will be twenty-one (21) weeks in a semester including teaching, mid and final semester examinations.

11.8. Scheme of Studies for MS Engineering Technology Program

The scheme of studies for MS in Engineering Technology programs shall be as under:

(i) The minimum period for completing MS degree in Engineering Technology by thesis / dissertation shall be four (04) semesters i.e. thirty (30) credit hours in total.

(ii) The 30 credit hours are again distributed as (03) semesters of 24 credit hours of theory classes and one (01) semester of 06 credit hours of research / thesis / dissertation.

(iii) In case, a student is not willing to continue his/her MS degree by thesis / dissertation, then he/she has to study an equivalent of theory classes of 06 Cr. Hr. in 4th semester.

11.9. Fees for MS Engineering Technology Programs

The fees in following heads will be charged per semester/year/once to all the students till the conduct of final viva voce and is changeable as per university policy. However, the semester period of even a single day will be considered as full semester for imposing the semester fees.

Table 1: Semester-wise fees (Rs.) Break-up for MS by Coursework / Research-work, Fall 2026 (Batch-03)

Sr. No.	Fees Head	1st Semester	2nd Semester	3rd Semester	4th Semester
1	Registration / Admission fees	20,000	---	20,000	---
2	Tuition fees	25,000	25,000	25,000	25,000
3	Enrolment card fees	1,000	---	---	---
4	Student identity card fees	1,000	---	1,000	---
5	Degree / pass verification fees (from last institute attended) *	3,000	---	---	---
6	Internet usage	2,000	2,000	2,000	2,000
7	Research journal	2,000	2,000	2,000	2,000
8	Study tour fees**	2,000	---	2,000	---
9	Medical fees	2,000	2,000	2,000	2,000
10	Sports / other co-curricular activities fees	2,000	2,000	2,000	2,000
11	Library fees deposit (Refundable) ***	2,000	---	---	---
12	Caution money deposit (Refundable) ***	5,000	---	---	---
13	Any other fees as per university policy	---	---	---	---
Sub-Total		**67,000**	**33,000**	**56,000**	**33,000**
Gross Total		**189,000/-**			

***** The degree/pass may be verified by the university at any time after getting admission. In case of fake degree/pass submission, the admission may be cancelled at any time during the study or even after the graduation.

** The study tour will be arranged for one (01) day only within the Sindh province, as per plan provided by the department/university upon the request of the students.

*** The fees (Library deposit fees & Caution money deposit) will be paid by the students during the time of admission while getting admission in 1st semester of the studies.

Note: The fees for MS by Coursework in 4th semester or after the 4th semester (if there is any case of re-admission / delay in completion) will only be charged to such students, as per university policy. Also, the fees refund policy will be applicable to all students as per HEC's fees refund policy and/or notified/adopted by the university from time to time.

Table 2: Other Applicable Fees, Fall 2026 (Batch-03)

Sr. No.	Fees Head	One Time Fees (Rs.)
1	Application processing fees	3,000
2	Examination + Marks certificate (per semester) *	3,500
3	Recounting of marks (per course/paper) **	1,000
4	Lab equipment maintenance fees (to be paid during research proposal submission) ***	6,000
5	Research proposal processing fees (per proposal) ***	3,000
6	Conduct of seminars (per seminar) ***	3,000
7	Thesis evaluation fees ***	5,000
8	Transcript fees (normal)****	3,000
9	Pass Certificate (normal) ****	3,000
10	Degree fees (normal)****	5,000
11	Re-admission fees*****	20,000
Total		**55,500**

* The fees for issuance of semester exams + marks certificate will be deducted for the no. of exams appeared / mark certificate(s) issued, or as the case may be.

** The fees for recounting of the marks in any semester will be paid by the student upon his/her request.

*** The fees are applicable to the students who will opt for MS by research-work / dissertation. These fees are applicable for one time. If the proposal is resubmitted or the seminar is reconducted or thesis is re-evaluated, the fees will be charged separately for each time.

**** The transcript, pass and degree fees (in case of urgent) will be charged separately, as per university's policy.

***** The fees for re-admission will be paid by student, if he/she failed to achieve the given criterion in regular semester, and want to re-enroll with the junior batch, as specified by the university.

11.10. Minimum Requirements for Completion of MS Engineering Technology Degree by Course Work

For successful completion of MS Engineering Technology degree in relevant program by course work, the candidate has to meet the following required benchmarks before graduation.

(i) Regular Classes and Assessment

Activity	**Period**
Sessional (Assignments/Project/Tests/Presentations)	During/After classes
Mid Semester Examination	After teaching of 08 weeks
Final Semester Examination	After teaching of 16 weeks

(ii) Yearly Academic Program

Teaching duration of 1st semester	16 Weeks
Mid Semester Examination including mid break	01 Weeks
Final Semester Examination including final break	04 Weeks
Summer Break	08 Weeks
Teaching duration of 2nd Semester	16 Weeks
Mid Semester Examination including mid break	01 Weeks
Final Semester Examination including final break	04 Weeks
Winter Break	02 Weeks
Total	**52 Weeks**

Note: Minimum number of contact hours for a theory subject of 3 Cr. Hr. per semester is 42 and for 02 Cr. Hr. is 28 contact hours. One (01) credit hour of theory is equal to 01 contact hour.

(iii) Medium of Instructions

Instruction in all courses be carried out in English language.

(iv) Mid Semester Examination

Mid semester examination will be of 01 hour duration for 02 Cr. Hr. courses and 1.5 hours for 03 Cr. Hr. courses. Each question paper will contain two (02) questions for 02 Cr. Hr. courses and 03 questions for 03 Cr. Hr. courses, with no choices at all.

(v) Attendance Requirement

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

(vi) Appearance in the Final Semester Examination

The final semester examination will be opened to the students who fulfills the following conditions;

(a) During the semester immediately preceding the examination, he / she has been on the roll list of the concerned Department of concerned faculty.

(b) He /she has fulfilled the minimum requirements of the attendance i.e. 75%.

(c) He / she has submitted his / her Examination form dully filled-in completely along with the prescribed fee to the Controller of Examination, through Director Postgraduate Studies.

(vii) Final Semester Examination

Final semester examination will be of 02-hours duration for 02 Cr. Hr. course and 03-hours duration for 03 Cr. Hr. course. Each question paper will contain 05 questions. The student has to attempt all questions.

(viii) Distribution of Marks

The distribution of marks of 02 Cr. Hr. theory course in a semester will be as under:

	Maximum Marks
Sessional work i.e. Assignments/Project/Tests/Presentations	10
Mid Semester Examination	10
Final Semester Examination	30
Total: 50 Marks	

The distribution of marks of 03 Cr. Hr. theory course in a semester will be as under:

	Maximum Marks
Sessional work i.e. Assignments/Project/Tests/Presentations	20
Mid Semester Examination	20
Final Semester Examination	60
Total: 100 Marks	

(ix) Conduct of Sessional Work, Mid-Semester and Final Semester Examinations

(a) 10 marks of the sessional work for 02 Cr. Hr. courses shall be awarded to a student by the teacher concerned after conducting at least 02 assignments / 01 mini project / 02 tests (subjective type) / 02 presentations. The average of the above activities will be considered for award of sessional work marks.

(b) 20 marks of the sessional work for 03 Cr. Hr. courses shall be awarded to a student by the teacher concerned after conducting at least 02 assignments / 01 mini project / 02 tests (subjective type) / 02 presentations. The average of the above activities will be considered for award of sessional work marks.

(c) At the end of each semester, the marks of sessional work secured by the student of the concerned subject shall be announced by the concerned subject teacher by displaying on the Notice Board.

(d) Mid semester Examination will be conducted by the Examination Department in collaboration with the Directorate of Postgraduate Studies.

(e) The question paper drawn from within the course of mid semester (duly sealed) for the mid semester and final semester examinations will be submitted by the concerned teacher to the Controller of Examinations at least 03 days before the Examinations of concerned course/subject.

(f) The scripts of mid semester examination will be shown to the students after evaluation. Each blank page/gaps in the scripts will be stamped/line drawn, by the factotum / head invigilator/invigilator concerned.

(g) The marks of each test and mid semester examination will be displayed and solutions will be discussed in the classroom with the students. If any student is not satisfied with the evaluation, he/ she may convey this to the Chairperson of the concerned department/Director, PGS within 07 days of the result thus displayed and the matter will then be looked into by the **Departmental Committee**, whose decision will be final. Any such objections after the expiry of 07 days will not be entertained.

(h) The teachers will prepare 03 copies of the result of each course separately at the end of each semester (including attendance record, marks of sessional work, mid semester examination and final semester examination) on the prescribed proforma and shall forward to the Controller of Examinations.

(i) The cumulative result (including the marks of sessional work, mid semester examination and final semester examination) of each semester of a year will be announced by the Controller of Examinations.

(x) Setting of Question Paper/Assessment of Scripts

(a) Question Papers for Semester Examination shall be drawn **(according to format)** by the teacher(s) of concerned subject as Examiners, for all departments. In case of more than one subject teacher of a particular subject in the same department with assigned sections, the respective teacher will draw question paper of concerned section.

(b) The departmental committee with consent of dean of the faculty may moderate the question paper, if necessary.

(c) The scripts of the Theory Examination will be assessed by the respective Examiner.

(xi) Scanning of Result

Prior to sending ledgers of the results of Regular / Supplementary Examination to the Vice Chancellor for his/her signature, the overall tabulated and checked ledgers shall be pursued and re-scanned by the **Departmental Committee** of the concerned Department, Director (PGS) and the Dean of concerned Faculty.

(xii) Passing Examinations

(a) A candidate having passed all the heads with minimum CGPA equal to 3.0 shall be declared “PASS” and shall be eligible for award of degree.

(b) In case of failure or having less CGPA than required for graduation, i.e. 3.0 out of 4.0, the student will be given one chance to clear / improve his/her GPA in the given course. Though, the student has to submit an examination form along with the students of regular batch concerned, for the course he/she is improving the marks. The expenses incurred on such examination will be borne by the candidate him / herself.

(c) In case, if the student fails to secure required CGPA again, then he / she will be allowed once for a special chance to clear / improve his / her marks in any course (1st to 4th semester), though the chance is subject to approval of ASRB. The expenses incurred on such examination shall be borne by the student his / herself.

(d) A candidate who fails in any head(s) even after special chance will be disqualified for the degree.

(xiii) Promotion Rules

(a) The Director, Postgraduate Studies is authorized to allow the MS students for re-admission who have the gap of one year only. However, the re-admission will be allowed once during the degree program.

(b) A student will be promoted to the 2nd semester of the first year provided that he/she has completed minimum attendance requirement i.e. 75% and filled up examination form and appeared in at least one of the Heads of the Final Semester examination (First Semester).

(c) A student will be promoted to the 3rd semester provided that he / she has obtained minimum C grade or higher in at least 50% Heads of 1st semester of first year in regular examination and has completed minimum attendance requirement i.e. 75% of 2nd semester and has filled up the examination form and appeared in at least one of the heads of examinations (2nd Semester). Benefit of the fraction will be given to the student.

(d) A student will be promoted to the 4th semester provided that he / she has obtained minimum CGPA equal to 3.0 or higher in 1st semester of first year and cleared 100% courses of 1st Semester, 50% heads of 2nd semester of first year in regular examination and has completed minimum attendance requirement i.e. 75% of 3rd semester and has filled up the examination form and appeared in at least one of the heads of examinations (3rd semester).

(xiv) Time for Checking Scripts

The time limit for checking the answer scripts shall be 05 scripts per day plus one week after the conduct of examination of the concerned course, unless specified.

(xv) Final Award

The final award list once received in the office of the Controller of Examination shall not be liable to the subsequent change, except with the permission of the Vice-Chancellor.

(xvi) Recounting of Marks

Recounting of the marks shall be done on payment of prescribed fee, for a candidate who submits an application to the Controller of Examination, through the Director, Postgraduate Studies within two (02) weeks from the date of announcement of result.

(xvii) Transfer of Credits

Transfer of credits earned in any other HEI (local / international) may be approved in individual case up to a maximum of nine (09) credit hours, as determined by the ASRB for award of degree, provided that:

(a) The student has passed these courses with at least 60% marks.

(b) The departmental committee of the concerned department certifies that the courses are similar and equivalent to approved courses of the scheme of studies of the MS program of the concerned department of the university.

(c) In cases where the regulations/statutes are silent, the decision of the ASRB shall be final. Interpretation of these regulations by the ASRB of the University shall be deemed final.

(xviii) Progress of Students

Progress of all postgraduate students will be monitored by the chairperson concerned and the Director, Postgraduate Studies.

(xix) Conduct of the Students

The conduct of the postgraduate students will be monitored by the Directorate of Postgraduate Studies. In case of any misconduct observed or reported by class teacher, Chairperson / Directorate of PGS or any other person in writing will be processed by Director Postgraduate Studies for permission to send the same to the discipline committee of the University for Proper Disposal.

(xx) Grade Equivalent

The 50% marks in each subject will be considered as PASS and will be considered as 2.00 CGPA and 60% marks aggregate will be considered for award of Degree and will be considered as 3.00 CGPA. The results will be prepared on the basis of Grade Point Average (GPA), as given in the Table below.

Grade	Grade Point	Maximum Marks (100)	Maximum Marks (50)
A+	4.00	85 or above	42.5 or above
A	3.75	75 to 84	37.5 to 42
B+	3.50	66 to 74	33 to 37
B	3.00	60 to 65	30 to 32.5
C+	2.50	55 to 59	28 to 29.5
C	2.00	50 to 54	25 to 27
F	<2.00	<50 Fail	<25 Fail

(xxi) Method of Working out Grade Point

(a) Credit Hours (Cr. Hr.)

One credit hour for a particular course is generally to be considered as one hour of teaching theory per week.

(b) Quality Points (QP)

For computation of the (GPA), the quality point (QP) is first determined by multiplying the value of the grade earned by the students with the Credit Hours of the that course e.g. if a student obtain "A^{+}" grade for a three credit hours course then his quality points will be calculated as follows:

$$QP = 4 \times 3 = 12$$

(c) Grade Point Average (GPA)

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.

$$GPA = \text{Sum of QP} / \text{Sum of Cr. Hr.}$$

(d) Cumulative Grade Point Average (CGPA)

The cumulative Grade Point Average (CGPA) is the expression describing the performance of a student in all semester is determined by the following way.

$$CGPA = \sum QP \text{ for all the courses appeared} / \sum \text{Cr. Hr. for all the courses appeared}$$

(xxii) Cancellation of Admission

In case, if the progress of the postgraduate student is not satisfactory, Director Postgraduate Studies will present the case to ASRB for consideration. The ASRB may issue warning to the candidate or even can cancel the admission if deems appropriate.

(xxiii) Award of MS Degree (Course Work)

A student shall be awarded degree of MS (course work) only after he / she has passed the examination as prescribed in relevant sections, and successfully completed all requirements within stipulated time frame.

(xxiv) Modification of Regulations

These Regulations are subject to modification by the Statutory Bodies (ASRB/Academic Council) and or Competent Authority of the university as may be felt appropriate in future, or any error / mistake / omission required at any time or as the case may be.

11.11. Minimum Requirements for Completion of MS Engineering Technology Degree by Thesis / Dissertation

For successful completion of MS Engineering Technology degree in relevant program by thesis / dissertation, the student has to meet the following minimum required benchmark for graduation.

(i) Regular Classes and Assessment

In a course, at least following activities are done in each semester.

Activity	Period
Sessional (Assignments/Project/Tests/Presentations)	During/After classes
Mid Semester Examination	After teaching of 08 weeks
Final Semester Examination	After teaching of 16 weeks

(ii) Yearly Academic Program

Teaching duration of 1st semester	16 Weeks
Mid Semester Examination including mid break	01 Weeks
Final Semester Examination including final break	04 Weeks
Summer Break	08 Weeks
Teaching duration of 2nd Semester	16 Weeks
Mid Semester Examination including mid break	01 Weeks
Final Semester Examination including final break	04 Weeks
Winter Break	02 Weeks
Total	**52 Weeks**

Note: Minimum number of contact hours for a theory subject of 3 Cr. Hr. per semester is 42 and for 02 Cr. Hr. is 28 contact hours. One (01) credit hour of theory is equal to 01 contact hour.

(i) Medium of Instructions

Instruction in all courses be carried out in English language.

(ii) Mid Semester Examination

Mid semester examination will be of 01 hour duration for 02 Cr. Hr. courses and 1.5 hours for 03 Cr. Hr. courses. Each question paper will contain two (02) questions for 02 Cr. Hr. courses and 03 questions for 03 Cr. Hr. courses, with no choices at all.

(iii) Attendance Requirement

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

(iv) Appearance in the Final Semester Examination

The final semester examination will be opened to the students who fulfills the following conditions;

(a) During the semester immediately preceding the examination, he / she has been on the roll list of the concerned Department of concerned faculty.
(b) He /she has fulfilled the minimum requirements of the attendance i.e. 75%.
(c) He / she has submitted his / her Examination form dully filled-in completely along with the prescribed fee to the Controller of Examination, through Director Postgraduate Studies.

(v) Final Semester Examination

Final semester examination will be of 02-hours duration for 02 Cr. Hr. course and 03-hours duration for 03 Cr. Hr. course. Each question paper will contain 05 questions. The student has to attempt all questions.

(vi) Distribution of Marks

The distribution of marks of 02 Cr. Hr. theory course in a semester will be as under:

	Maximum Marks
Sessional work i.e. Assignments/Project/Tests/Presentations	10
Mid Semester Examination	10
Final Semester Examination	30
	Total: 50 Marks

The distribution of marks of 03 Cr. Hr. theory course in a semester will be as under:

	Maximum Marks
Sessional work i.e. Assignments/Project/Tests/Presentations	20
Mid Semester Examination	20
Final Semester Examination	60
	Total: 100 Marks

(vii) Conduct of Sessional Work, Mid-Semester and Final Semester Examinations

(b) 10 marks of the sessional work for 02 Cr. Hr. courses shall be awarded to a student by the teacher concerned after conducting at least 02 assignments / 01 mini project / 02 tests (subjective type) / 02 presentations. The average of the above activities will be considered for award of sessional work marks.
(c) 20 marks of the sessional work for 03 Cr. Hr. courses shall be awarded to a student by the teacher concerned after conducting at least 02 assignments / 01 mini project / 02 tests (subjective type) / 02 presentations. The average of the above activities will be considered for award of sessional work marks.
(d) At the end of each semester, the marks of sessional work secured by the student of the concerned subject shall be announced by the concerned subject teacher by displaying on the Notice Board.
(e) Mid semester Examination will be conducted by the Examination Department in collaboration with the Directorate of Postgraduate Studies.
(f) The question paper drawn from within the course of mid semester (duly sealed) for the mid semester and final semester examinations will be submitted by the concerned teacher to the Controller of Examinations at least 03 days before the Examinations of concerned course/subject.
(g) The scripts of mid semester examination will be shown to the students after evaluation. Each blank page/gaps in the scripts will be stamped/line drawn, by the factotum / head invigilator/invigilator concerned.

(h) The marks of each test and mid semester examination will be displayed and solutions will be discussed in the classroom with the students. If any student is not satisfied with the evaluation, he/ she may convey this to the Chairperson of the concerned department/Director (PGS) within 07 days of the result thus displayed and the matter will then be looked into by the **Departmental Committee**, whose decision will be final. Any such objections after the expiry of 07 days will not be entertained.

(i) The teachers will prepare 03 copies of the result of each course separately at the end of each semester (including attendance record, marks of sessional work, mid semester examination and final semester examination) on the prescribed format and shall forward to the Controller of Examinations.

(j) The cumulative result (including the marks of sessional work, mid semester examination and final semester examination) of each semester of a year will be announced by the Controller of Examinations.

(viii) Setting of Question Paper / Assessment of Scripts

(a) Question Papers for Semester Examination shall be drawn (as per format) by the teacher(s) of concerned subject as Examiners, for all departments. In case of more than one subject teacher of a particular subject in the same department with assigned sections, the respective teacher will draw question paper of concerned section.

(b) The departmental committee with consent of dean of the faculty may moderate the question paper, if necessary.

(c) The scripts of the Theory Examination will be assessed by the respective Examiner.

(ix) Passing Examinations

(a) A candidate having passed all the Heads with minimum CGPA equal to 3.0 shall be declared "PASS" and shall be eligible for award of degree.

(b) In case of failure or having less CGPA than required for graduation, i.e. 3.0 out of 4.0, the student will be given one chance to clear / improve his/her GPA in the given course. Though, the student has to submit an examination form along with the students of regular batch concerned for that he/she is improving the marks. The expenses incurred on such examination will be borne by the candidate him / herself.

(c) In case, if the student fails to secure required CGPA again, then he / she will be allowed once for a special chance to clear / improve his / her marks in any course (1^{st} to 3^{rd} semester), though the chance is subject to approval of ASRB. The expenses incurred on such examination shall be borne by the student his / her self.

(d) A candidate who fails in any head(s) even after special chance will be disqualified for the degree.

(x) Promotion Rules

(a) The Director, Postgraduate Studies is authorized to allow the MS students for re-admission who have the gap of one year only. However, the re-admission will be allowed once during the degree program.

(b) A student will be promoted to the 2^{nd} semester of the first year provided that he/she has completed minimum attendance requirement i.e. 75% and filled up examination form and appeared in at least one of the Heads of the Final Semester examination (First Semester).

(c) A student will be promoted to the 3^{rd} semester provided that he / she has obtained minimum C grade or higher in at least 50% Heads of 1^{st} semester of first year in regular examination and has completed minimum attendance requirement i.e. 75% of 2^{nd} semester and has filled up the examination form and appeared in at least one of the heads of examinations (2^{nd} Semester). Benefit of the fraction will be given to the student.

(d) A student will be promoted to the 4th semester provided that he / she has obtained minimum CGPA equal to 3.0 or higher in 1st semester of first year and cleared 100% courses of 1st Semester, 50% heads of 2nd semester of first year in regular examination and has completed minimum attendance requirement i.e. 75% of 3rd semester and has filled up the examination form and appeared in at least one of the heads of examinations (3rd semester).

(xi) Conduct of Seminars and Viva Voce

The Directorate of Postgraduate Studies will arrange the conduct the seminars/viva voce of each student who applied for seminar/viva voce within one (01) month subject to the availability of external, internal examiners and completion of all requirements by the student for the seminar/viva voce.

(a) Initial Seminar

i. After successful completion of the course work of second (2nd) semester, the student will select his/her Thesis/Dissertation topic in consultation with his/her Academic Supervisor and submit the research proposal on prescribed proforma/format. The student will be eligible to deliver initial seminar of his/her project only if his / her minimum GPA in the first semester is not less than 3.0 out of 4.0.

ii. Meeting all the requirements, the candidate will deliver initial seminar publicly in presence of Director Postgraduate Studies, Dean of the faculty concerned, Supervisor/co-supervisor, internal examiner, external examiner and at least 50% ASRB members.

iii. The student who has applied for initial seminar, he/she may be liable to pay technical research proposal processing fees with condition that he / she will complete thesis work within six months (180 days). In case, one fails to do so, he / she will pay fee for extra period i.e. may be one semester or more, as the case may be.

iv. After the conduct of initial seminar, the comments of members will be brought under discussion in the subsequent meeting of ASRB. On the approval of ASRB, the student will be allowed to proceed with his/her research work or will be directed to change/modify the topic, as the case may be.

v. The student has to publish at-least one (01) research paper in a HEC recognized journal or one (01) conference proceeding after successful conduct of initial seminar, and submit the proof of acceptance before final seminar.

vi. The published research paper or conference proceeding of the student then shall be verified by the Director, ORIC for its genuineness, similarity report and relevancy to research / thesis / dissertation title.

(b) Final Seminar and Viva Voce

i. The candidate will be eligible to deliver final seminar of his / her thesis/dissertation, if his /her minimum CGPA till third (3rd) semester is not less than 3.0 out 4.0 with at least acceptance letter / proof of publication of related research paper or conference proceeding as mentioned in para 1.12(xi)(a)v & vi.

ii. Before final seminar and viva voce the student should submit his / her thesis (as per format) duly checked by the academic supervisor to the Director Postgraduate Studies for evaluation by internal and external examiners.

iii. The incomplete applications shall not be entertained by the Directorate of Postgraduate Studies, and may return the applications if found incomplete or the student was ineligible for appearing in final seminar and viva voce.

iv. Those students who submit their applications before 15th day of the month, their seminar/viva voce will be conducted up to 15th day of the next month. Any application received for conduct of seminar/viva voce after

15th day of the month will be entertained in next to subsequent month subject to availability of external, internal and members of ASRB.

For example:

i. Application received on or before 15.01.2024, their seminar/viva voce will be conducted from 01.02.2024 to 15.02.2024.
ii. Application received after 15.01.2024 and before 31.01.2024, their seminar/viva voce will be conducted from 01.03.2024 to 15.03.2024.

(c) Examination Evaluation System

i. Theory: Internal examiner / Concerned Course Teacher.
ii. Initial and Final Seminar (s): Internal Examiner(s) preferably from within the University, and External Examiner(s) from outside the University (another institute in Pakistan), and at least 50% of the members from ASRB.
iii. Viva Voce / Thesis: Internal Examiner(s) preferably from within the University, and External Examiner(s) from outside the University (another institute in Pakistan).

(d) Appointment of Examiners

i. The concerned chairperson in consultation with the concerned supervisor should propose the panels (at least 03 members) for internal and external examiners. From these panels, Dean of the Faculty shall recommend the internal and external examiner. Furthermore, the Vice Chancellor shall then appoint/approve the examiners as proposed by the Dean of the faculty or may change both or any examiner, if deems necessary.
ii. The presence of the Director Postgraduate studies, Dean of concerned faculty, and the chairperson of the concerned department is mandatory during the seminar. However, the seminars will be postponed if 50 % members of ASRB are not available during the seminar. Moreover, the presence of any one of the supervisor or co-supervisors is mandatory for conduct of the seminars/viva voce.

(e) Recommendations of Examiners

i. Recommendations of Examiners (Initial Seminar)

The examiners shall recommend in the prescribed proforma, after thorough evaluation of the synopsis submitted and presented in initial seminar.

ii. Recommendations of Examiners (Final Seminar / Viva Voce / Thesis)

The examiners shall recommend in the prescribed proforma, after thorough evaluation of the students research work during final seminar / defense / viva voce and thesis.

iii. Declaration of Final Thesis Results

The results of final viva voce/thesis examination will be announced by the controller of examination, though it will not be announced until the minimum period of the degree and completion of all other requirements i.e. class work, research work, publication of research paper / conference proceeding has not been completed yet.

(xii) Time for Checking Scripts

The time limit for checking the answer scripts shall be 05 scripts per day plus one week after the conduct of examination of the concerned course, unless specified.

(xiii) Final Award

The final award list once received in the office of the Controller of Examination shall not be liable to the subsequent change, except with the permission of the Vice-Chancellor.

(xiv) Recounting of Marks

Recounting of the marks shall be done on payment of prescribed fee, for a candidate who submits an application to the Controller of Examination, through the Director, Postgraduate Studies within two (02) weeks from the date of announcement of result.

(xv) Scanning of Result

Prior to sending ledgers of the results of Regular / Supplementary Examination to the Vice Chancellor for his/her signature, the overall tabulated and checked ledgers shall be pursued and re-scanned by the departmental committee of the concerned Department, Director (PGS) and the Dean of concerned Faculty.

(xvi) Transfer of Credits

Transfer of credits earned in any other HEI (local / international) may be approved in individual case up to a maximum of nine (09) credit hours, as determined by the ASRB for award of degree, provided that:

(a) The student has passed these courses with at least 60% marks.
(b) The departmental committee of the concerned department certifies that the courses are similar and equivalent to approved courses of the scheme of studies of the MS program of the concerned department of the university.
(c) In cases where the regulations/statutes are silent, the decision of the ASRB shall be final. Interpretation of these regulations by the ASRB of the University shall be deemed final.

(xvii) Progress of Students

Progress of all postgraduate students will be monitored by the chairperson concerned and the Director, Postgraduate Studies.

(xviii) Conduct of the Students

The conduct of the postgraduate students will be monitored by the Directorate of Postgraduate Studies. In case of any misconduct observed or reported by class teacher, supervisor, Chairperson / Directorate of PGS or any other person in writing will be processed by Director Postgraduate Studies for permission to send the same to the discipline committee of the University for Proper Disposal.

(xix) Grade Equivalent

The 50% marks in each subject will be considered as PASS and will be considered as 2.00 CGPA and 60% marks aggregate will be considered for award of Degree and will be considered as 3.00 CGPA. The results will be prepared on the basis of Grade Point Average (GPA), as given in the below.

Grade	Grade Point	Maximum Marks (100)	Maximum Marks (50)
A+	4.00	85 or above	42.5 or above
A	3.75	75 to 84	37.5 to 42
B+	3.50	66 to 74	33 to 37
B	3.00	60 to 65	30 to 32.5
C+	2.50	55 to 59	28 to 29.5
C	2.00	50 to 54	25 to 27
F	<2.00	<50 Fail	<25 Fail

(xx) Method of Working out Grade Point

(a) Credit Hours (Cr. Hr.)

One credit hour for a particular course is generally to be considered as one hour of teaching theory per week.

(b) Quality Points (QP)

For computation of the (GPA), the quality point (QP) is first determined by multiplying the value of the grade earned by the students with the Credit Hours of the that course e.g. if a student obtain "A^{+}" grade for a three credit hours course then his quality points will be calculated as follows

$$QP = 4 \times 3 = 12$$

(c) Grade Point Average (GPA)

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.

$$GPA = \text{Sum of QP} / \text{Sum of Cr. Hr.}$$

(d) Cumulative Grade Point Average (CGPA)

The cumulative Grade Point Average (CGPA) is the expression describing the performance of a student in all semester is determined by the following way.

$$CGPA = \sum QP \text{ for all the courses appeared} / \sum Cr.\ Hr. \text{ for all the courses appeared}$$

(xxi) Cancellation of Admission

In case, if the progress of the postgraduate student is not satisfactory, Director Postgraduate Studies will present the case to ASRB for consideration. The ASRB may issue warning to the candidate or even can cancel the admission if deems appropriate. Moreover, if the student does not deliver his/her initial seminar within 30 months after the date of admission, his/her admission in Master's Program will be cancelled.

(xxii) Award of Degree by Research Work / Thesis / Dissertation

A student shall be awarded degree of MS degree only after he / she has passed the examination as prescribed in relevant sections, and successfully defended his / her research work within stipulated time frame.

(xxiii) Modification of Regulations

These Regulations are subject to modification by the Statutory Bodies (ASRB/Academic Council) and or Competent Authority of the university as may be felt appropriate in future, or any error / mistake / omission required at any time or as the case may be.

12. ADMISSION PROCESS FOR MS ENGINEERING TECHNOLOGY PROGRAMS SESSION 2026~27

- The application forms can be filled online for getting admissions in MS Programs for intake Fall 2026 (Batch-03). The online form can be submitted on the https://admissions.bbsutsd.edu.pk/.
- The online application form should be dully filled and completed in all respect and be submitted online on portal along-with the uploading of required documents, and the paid bank challan of Rs. **3,000/- (three thousand rupees only)** paid in **Account No. 00737935637203,** Account titled: **BBSUTSD-FEES COLLECTION ACCOUNT**, HBL Mall Road Branch, Khairpur Mirs on or before **13.07.2026.**
  Note: For more information regarding the admission procedure, eligible disciplines and updates, please keep visiting our website: https://bbsutsd.edu.pk or email us on: director-admission@bbsutsd.edu.pk, director-pgs@bbsutsd.edu.pk, or contact us on: 0243-687059, 0333-7591475, 0304-1938240

12.1. Important Admission Dates

Activity	Deadline
Issuance of online application forms	15.06.2026
Last date for submission of online application forms	13.07.2026
Conduct of entry test (for the candidates who don't have valid relevant GRE/GAT/HAT Test Score) at BBS-UTECH, Khairpur Mirs	26.07.2026
Display of merit list	29.07.2026
Registration	30.07.2026 to 05.08.2026
Commencement of classes	05.08.2026

12.2. General Instructions

i. Register by clicking the "Register" Button. The username will be your CNIC or Passport #.
ii. Login with your username and password and fill in the online application form.
iii. You must upload scanned ORIGINAL documents as mentioned against the programs in the below list.
iv. Print your bank challan and submit the application fee in any branch of HBL. Upload a copy of the paid bank challan from your account.
v. After successful registration, an admit card will be generated automatically and will be available for download after the closing date of online application submission. The candidate has to print out and bring the admit card to the Pre-Entry test venue.
vi. Kindly provide valid and correct mobile phone numbers. All instructions / announcements will also be communicated to you through cell phone numbers.
vii. If the below-mentioned documents are not uploaded before the due date, the submitted application form will not be considered for admission.
viii. After submitting the application form, please wait for further instructions.

12.3. General Eligibility

i. To be eligible for admission to the Master of Science (MS) in Engineering Technology degree program at BBS-UTECH, the candidate must possess relevant bachelor's degree (B.E. / BS / B.Tech. (Hons.) / B. Tech. (04 years) / BSc with 16 years education in Engineering / Technology / Engineering Technology from a HEC recognized Institution with minimum CGPA 2.0 out of 4.0 or 50 % marks in terminal / annual examination.

ii. The candidates who have a relevant bachelor's degree (16 years education) from a foreign university must submit the verified copy of the equivalence certificate obtained from HEC Pakistan along with the application form.
iii. The candidates have to produce a valid and relevant GRE test score, or GAT (General/Subject) test score conducted by National Testing Service (NTS), or HAT general test conducted by HEC with a minimum 50% score or have to appear and qualify for the GAT (General) type test to be conducted by the University with a minimum 50% score.

12.4. Documents Required During Registration

i. Matriculation / SSC or Equivalent Certificate and Marksheet
ii. Intermediate / HSC / DAE / Equivalent Certificate and Marksheet
iii. Bachelor's Degree (16 Years) or Equivalent Certificate and / or Transcript
iv. Valid GRE/GAT (General/Subject) Result Card (if qualified)
v. Computerized National Identity Card (CNIC) / Passport (for foreigners)
vi. Passport Size Photographs (04 Nos.)
vii. Domicile Certificate and Form C Certificates / Country residential proof (for foreigners)
viii. Registration Certificate of National Technology Council / Pakistan Engineering Council / Pakistan Council of Architect and Town Planners etc.

12.5. Pre-admission Test Criteria and Pattern

i. The candidates who don't have valid and relevant GRE test score, or GAT (General/Subject) test score conducted by National Testing Service (NTS), or HAT general test conducted by HEC with a minimum 50% score, have to appear and qualify for the GAT (General) type test to be conducted by the University with a minimum 50% score.
ii. The entry test pattern for Admissions to Master of Science in Engineering Technology Programs for Session 2025~26 (Fall 2025, Batch-02) to be conducted by the university shall be as under:
    a. English / Verbal Reasoning = 25%
    b. Mathematics / Quantitative Reasoning = 25%
    c. Intelligence Quotient / Analytical Reasoning = 25%
    d. Computer = 25%

12.6. Merit Criteria for Admission

Merit criteria for admission to Master of Science Programs for Academic Session 2025~26 be allowed on the following weightage calculations:

i. 50% weightage from B.E. / BS / B.Tech. / BSc (16 years education in relevant field as per eligibility criteria)
ii. 50% weightage from entry test score / valid GRE/GAT (General/Subject Type Test Score)

12.7. Fee Return Policy

i. HEC fees return policy, as notified/adopted by the university from time to time will be adopted.

12.8. 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 BBS-UTECH. List of the documents to be verified at the time of the interview is available is mentioned in section 12.4. above.

12.9. Medical Fitness

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

12.10. Closing of Admission

The admission for session will be closed at the end of 4th week from the date of commencement of classes. After this period the vacant seats will not be filled at any stage.

12.11. Cancellation of Admission

i. Due to continuous absence from the classes for a period of one month during the session.
ii. Violation of submitted undertaking.

12.12. NOC for In-service Candidates

In service Govt / semi-govt. employees candidates applying for admission must produce NOC from the competent authority at the time of admission.

12.13. 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.

13. RULES OF DISCIPLINE

i. Every Student Shall Observe the Following:

(a) He /She must be faithful in his/her religious duties and respect the convictions of other in matters of religion and customs;

(b) He /She must be loyal to his/her country and refrain from doing anything which might lower its honor and prestige;

(c) He /She shall be truthful and honest in his/her dealings with all people;

(d) He /She must respect the elders and be polite to all specially to the women, the children, the old people, the weak and the helpless;

(e) He /She must respect his/her teachers and others in authority in the University;

(f) He /She must keep his/her mind clean and be clean in speech, sports and habits;

(g) He /She shall help his/her fellow beings especially those in distress;

(h) He /She must devote himself/herself faithfully to his/her studies and obey and follow the rules, instructions, guidelines issued by the University authorities from time to time He /She must observe thrift and protect property.

ii. No Student Shall:

(a) Smoke in his/her classroom, laboratory, workshop, library, examination hall or Convocation Hall and during any academic functions;

(b) Consume alcoholic liquor or other intoxicating drugs within the University Campus or during the instructional, sports or cultural tours or survey camps or enter any such place or attend any such tour or camp while under the influence of such intoxicants;

(c) Organize or take part in any function within the University Campus, organize any club or society of students without permission of the University authorities;

(d) Indulge into activities against the Islamic and Pakistan Ideology or national solidarity;

(e) Indulge into activities promoting, prompting or involving violence or hatred or contempt;

(f) 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;

(g) 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;

(h) 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 malpractice.

(i) Bring, keep or use any kind of weapon or firearms or sharp tool within the University Campus;

(j) Use or occupy fully or partially any room or any building of the University Campus un-authorized.

(k) Organize or take part in procession or meeting within the University Campus, prejudicial to the

(l) 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;

(m) 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;

(n) Bring, keep, or use mobile phone with built.in camera and digital dictionary within the Academic and Examination buildings of the University;
(o) Snatch mobile phones, use mobile phone during examination/class/PR or in the library;
(p) Tease the girl/boy students; demonstrate indecent or immoral gestures/attitude towards Girl /boy students on the Campus;
(q) Abuse/violate IT policies framed or to be framed from time to time.

13.1. 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.

13.2. Discipline Committee

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

13.3. 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.

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

13.5. 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. (ii) Impose fine up to Rs. 500/-	Class Teacher / Workshop Instructor --- 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. (ii) Impose fine up to Rs. 1000/-	Chairman of the Teaching Department/ Director of the Teaching Institute. --- 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 concerned departmental committee.
(h) (i) Fine not exceeding Rs.10,000/- (ii) Exclusion from the department for a period not exceeding 3 weeks	Vice-Chancellor on the Recommendations of the Dean concerned and concerned departmental committee. --- do ---
(i) With-holding 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. Provided that the superior authorities shall be equally competent to impose lighter penalties with the competence of inferior authorities as prescribed above.	Syndicate on the Recommendations of the Discipline Committee.

13.6. 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.

13.7. Appeal Against Penalties

(i) An appeal against imposition of the penalties shall lie with the Vice-Chancellor, provided that where the penalty has been imposed by the Vice-Chancellor, himself, an appeal shall lie with the Syndicate. Provided that when a penalty has been imposed by the Syndicate, an application for review can be made to the Syndicate.

(ii) No appeal by a student under these Regulations shall be entertained unless it is presented within two weeks from the date on which the decision is communicated to him/her, provided that the Vice-Chancellor may for valid reasons condone delay in any individual case.

13.8. 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.

14. 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: _____ Signature of the Applicant / Candidate

Date: _____

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CNIC NO.

FOR MORE INFORMATION:

University Website: www.bbsutsd.edu.pk
Webpage for Directorate of Postgraduate Studies: www.bbsutsd.edu.pk/directorate-of-pgs/
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