

BUIITEMS

Balochistan University of Information Technology, Engineering and Management Sciences has given a new vision and a distinct meaning to education. Its guidelines for academic achievements are consistent with renowned institutions of the world. At BUIITEMS, we are a community of professionals committed to preparing the leaders of tomorrow. The foundations of Balochistan University of Information Technology, Engineering & Management Sciences are laid on the sound principles of excellence in academic standards, equity, equality, sincerity of purpose, and the vision for the future. BUIITEMS has been declared as the Global Hub for Sustainable Development Goal 8 i.e., for Decent Work and Economic Growth by the United Nations Academic Impact. With its dynamic team, the university has emerged as a premier seat of teaching and research.

Vision: To be among the leading universities of the world - accessible to all, imparting quality education and promoting cutting edge research.

Mission: We are committed to providing quality education with focus on research and to equip students with the art of living as productive members of society, contributing to the socio-economic uplift of Pakistan in general, and Balochistan in particular.

Campuses: The university has four campuses:

1. Takatu Campus houses the faculties of Information and Communication Technology, Biotechnology and Informatics, Social Sciences and Humanities, Management Sciences, Basic Sciences and Engineering and Architecture.
2. City Campus, which houses the faculty of Law department. The Chiltan Campus, which houses research farms and laboratories, related to life sciences.
3. University College of Zhob, BUIITEMS and are offering courses in Education, Computer science, Business administration and Economics
4. Muslim Bagh is purpose-driven campus to produce leaders proficient of 'shaping tomorrow' amid the contests and demands of emerging markets and technological innovation and are offering courses in economics, computer science, public administration and management sciences.

Governance: BUIITEMS quest for academic excellence is based on six fundamental pillars; the students, the faculty and staff, curriculum, the learning environment, research and the society we serve. We stand committed that in our academic offering we shall not only follow the standards, we shall also set new Records of Excellence. There are six faculties and each faculty is comprised of multiple departments. The university through the office of the Registrar, Controller of Examinations and the Directorates helps in maintaining a conducive environment for teaching and learning at BUIITEMS.

Statutory bodies including the Board of Studies, Board of Faculty, Academic Council, Advanced Studies and Research Board, Finance and Planning Committee, Discipline Committee, Syndicate and the Senate continuously provide guidance and direction in achieving the aims of excellence.

BUIITEMS Quality Policy Statement: BUIITEMS contributes in defining standards and systems for the uplift of socio-economic order through quality education and services by:

- 1) Providing an environment conducive to learning, teaching, academic inquiry and innovation
 - 2) Maintaining academic excellence and professionalism
 - 3) Adhering to established systems for ensuring good governance for management and transfer of knowledge
 - 4) Benchmarking with other leading institutions of higher education for improvement
 - 5) Enhancing efficient and effective operations by encouraging participation of stakeholders
 - 6) Pursuing continuous improvement through creativity, team work and adaptation to change
- > Playing a catalytic role to achieve the national, regional and global harmony.

Admission: Applying to BUITEMS: Four simple steps

Step: 1 Major (You will be studying a particular field for several years. Therefore, you should make sure to choose a field that interests and excites you)

Step: 2 Apply (Fill up the admission form online and submit its hardcopy in admission office alongwith the required documents and bank receipt of admission processing fee Apply Online: [<http://oas.buitms.edu.pk/application/index.php>])

Step: 3 Test (Eligible candidates will be invited to appear in the admissions test conducted by NTS. The valid test results of NTS/HAT are also acceptable)

Step: 4 Admission (Admission will be offered based on the merit calculated from the marks of Matric, Intermediate and the admission test)

Admission Process: Eligibility criteria is available on BUITEMS website: www.buitms.edu.pk For registration and online application, please visit: <https://oas.buitms.edu.pk> Upon successful submission of online application, print the processing fee slip and the (filled in) application form. Application processing fee (Rs.3500/non-refundable) can be deposited in Habib Bank Limited against online Account No. 2358-70001966-01, BUITEMS Airport Road, Quetta. The Application-processing fee can also be deposited by demand draft drawn in favor of Registrar BUITEMS. Attested copies of all educational documents (Degrees and DMCs), CNIC (applicant's & father's) / B Form (applicant's), local/domicile certificate (applicant's/father's), character certificate issued by last attended institution and 2 recent photographs must be attached with the admission form. Printed application form, processing fee slip and attested copies of documents must be sent to "Director Student Affairs & Academics, BUITEMS, Takatu Campus, Airport Road, Quetta, for Quetta based programs before the closing date. Incomplete applications are liable to rejection. Entry / Admission test shall be conducted by NTS. Valid NTS (NAT), HEC (HAT) are acceptable. Candidates from other Provinces are encouraged to apply. The candidates who have already applied for admissions against BUITEMS Admission Announcement for Fall-2023, need not to apply afresh.

Admission Department Contact: Takatu Campus, Airport Road, Baleli, Quetta. Phone#081-2880512(EXT.207/203), DirectLine:081-2880511, UAN:081-111-717-111, Email: admissions.faq@buitms.edu.pk

Documents Required to Submit after Admission: Attested copy of Secondary, School Certificate, Attested copy of Higher Secondary School Certificate, Attested copy of the Applicant's CNIC / B-form, Attested copy of Local/Domicile, Bank draft/pay order/receipt of cash payment (admission processing fee), Six recent photographs (passport size), Attested copy of CNIC of the applicant's father/guardian, Attested copy of Character Certificate from the last institute attended.

Departments:

1. **Computer Science (CS):** The Department of Computer Science at BUITEMS is one of the pioneer departments that was founded in 2002 as an undergraduate program along with the inauguration of the University. Later, the department expanded its offerings to MS in 2006 and PhD in 2014 respectively. Computer Science Department of BUITEMS

aspires to provide a comprehensive computational education environment that inspires curiosity, creativity and innovation for the enhancement of society in a positive and meaningful way. We, at Department of Computer Science, are committed to impart the fundamental and highly technical knowledge on computational issues involving computer communication, networking, security, software development, database management systems, data sciences, programming and to examine the features, attributes, practical implications, technical issues, and concepts in these areas. The program provides a unique opportunity to develop leading edge in-depth knowledge of specific computer science disciplines. Many of our students graduate to rewarding computer-related careers in software engineering, data science, system administration and management, research and development in industrial and governmental laboratories. Since computer technology has transformed almost all disciplines, many of our graduates use their computer science major to prepare them for a career in other disciplines such as medicine, law, education, physical and life sciences, social sciences, and humanities. Demand for graduates well-versed in computer science is high and is expected to continue to grow as the information age is accelerating.

Chairperson of Computer Science (CS): Mirza Amir

BS CS Program Admission Requirement: F.Sc (Pre Engineering)/ICS with Mathematics and Physics from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS CS Program Degree Requirement: Total Credit Hours: 133-134, Total Courses 37-43, Minimum CGPA ≥ 2.0 , Academic Rules.

MS CS Program Admission Requirement: 16 years of education or equivalent e.g. B.E/BS – 4 years in the relevant field from HEC recognized university with at least 60% marks (annual system) or CGPA 2.5 out of 4. Admission test conducted by the University or its authorized testing agency with a minimum 50% cumulative score will be required at the time of admission.

MS CS Program Degree Requirement: Total Credit Hours: 30, Total Courses 8-10, Minimum CGPA ≥ 2.5 , Academic Rules.

2. **Computer Engineering (CE):** Computer engineering is a discipline that embodies the science and technology of design, construction, implementation, and maintenance of software and hardware components of modern computing systems and computer-controlled equipment. At the Department of Computer Engineering, students are encouraged to hone the right mix of expertise covering both software programming and hardware design and implementation to be able to design and utilize computing systems for industrial automation (to handle different processes and machinery in an industry to replace a human being), embedded systems (found in devices from a digital wristwatch to space shuttle), robotics (to use machines to perform tasks done traditionally by human beings), multimedia (to combine and use multiple media formats i.e. text, audio, still images, animation, video and interactivity together), and artificial intelligence (to design and program machines to think like humans and mimic their

actions). Computer Engineering is a fast emerging and an exhilarating field offering diverse career paths in both software development and hardware engineering. Computer Engineers apply engineering techniques and computer science concepts to develop reliable, cost-effective hardware and software solutions catering to the challenging demands of industries ranging from health care to environmental sciences.

Chairperson of Computer Engineering (CE): Dr.Sibghatullah Bazai

BS CE Program Admission Requirement: F.SC (Pre-Engg)/ICS with Math's & Physics from any recognized board or equivalent with at least 60%Marks. Or Diploma of Associate engineering in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS CE Program Degree Requirement: Total Credit Hours: 133-134, Total Courses 37-43, Minimum CGPA ≥ 2.0 , Academic Rules.

3. **Electronic Engineering (EE):** The Department of Electronic Engineering at BUITEMS focuses on the future technological needs of the industry in particular and society in general. Current themes of focus at the department are Robotics, Artificial Intelligence, Digital Manufacturing, Automated and Electric Vehicles, Information Security, Wireless Networks and NanoTechnologies. The program was initiated in 2003, and since its inception, the Electronic Engineering Department has played a leading role in educating the youth of Balochistan regarding future technologies. Graduates of the Electronic Engineering Department are employed by National and International Research Institutions, Telecom Companies, Banks and Multinationals, Automotive, Textile, Biomedical, Petrochemical and other Manufacturing Industries, as well as become entrepreneurs and freelancers.

Chairperson of Electronic Engineering (EE): Dr. Muhammad Ayub

BS EE Program Admission Requirement: F.Sc Pre Engineering from any recognized board or equivalent with at least 60% marks or Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS EE Program Degree Requirement: Total Credit Hours: 136, Total Courses: 45, Minimum CGPA ≥ 2.0 , Academic rules.

4. **Electrical Engineering (ELE):** The Department of Electrical Engineering at BUITEMS was founded in 2012, initially offering an undergraduate degree in Electrical Engineering with a focus on Electric Power Systems Engineering. The motivation of the program is to offer quality education opportunities, produce qualified engineers for the growing power sector of the country. The department's undergraduate program has been accredited by Pakistan Engineering Council (PEC) under Level-II which is a recognition of quality education. The quality and success of the undergraduate program have captured the attention of practising engineers. The practising engineers showed interest in continuing studies, improve their skills, and conduct research at the department; therefore, the department initiated a graduate (MS) program in spring 2014. The four-year undergraduate (BS) program of the department provides students with a firm knowledge of mathematics and engineering with the ability to analyze, formulate, and design systems with an understanding of ethical and professional

responsibility. Moreover, the program includes special courses on personality grooming and communication skills, exploring entrepreneurship and management potentials of the students by the time of graduation. Another important aspect of this program is that the students are provided with an opportunity to either specialize in the field of telecommunication engineering or power systems engineering.

Chairperson of Electrical Engineering (ELE): Dr. Surat Khan

BS ELE Program Admission Requirement: F.Sc (Pre-Engineering) from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS ELE Program Degree Requirement: Total Credit Hours: 136, Total Courses: 42-44, Minimum CGPA ≥ 2.0 , Academic Rules.

5. **Software Engineering (SE):** Software Engineering program at BUITEMS is designed to produce graduates that are accustomed to the field of software engineering, ranging from the theoretical to practical. A software engineer can specialize in areas such as software engineering, requirement engineering, quality engineering, software testing and project management. The Software Engineering Department at BUITEMS is offering a four-year BS Software Engineering (BSSE) degree since 2012 to fulfil the need of the growing software market in the country and abroad. Graduates from the Software Engineering Department are ready to embark upon an exciting career in a diverse range of software technology-rich companies and industries.

Chairperson of Software Engineering (SE): Dr. Shah Marjan

BS SE Program Admission Requirement: F.Sc (Pre Engineering)/ICS with Mathematics and Physics from any recognized board or equivalent with at least 60% marks or Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks.

BS SE Program Degree Requirement: Total Credit Hours: 132, Total Courses: 42 + FYP(I&II), Minimum CGPA ≥ 2.0 , Academic rules.

6. **Information Technology:** Science and Technology have shaped the globe in almost all fields of life. It has changed the way we do business, learn, communicate, and even how we entertain ourselves. Success in any field – law, medicine, business, education, entertainment, finance and investment – requires a command of Technology. Moreover, innovations in technology have enabled us to connect everything to the internet (Internet of Things-IoT). The department of Information technology aspires to equip students with a grasp of knowledge which can enable them to contribute to advancing technologies. The Department of Information Technology at BUITEMS was founded in 2007 as an undergraduate program later on expanded its offerings to MS in Information Technology. The department has a growing, vibrant, research-oriented faculty who take great pride in research and education. We, at Department of Information Technology, are committed to imparting quality education in all horizons of IT including fields of computer communication, networking, security, software development, database management systems, programming, telecommunication management, artificial intelligence, enterprise systems and to examine the technical

issues related to technology implementation. The MS program of the department offers a two-year research degree in the specialized fields of telecommunication systems engineering and power systems engineering.

Chairperson of Information Technology (IT): Dr. Bushra Naeem

BS IT Program Admission Requirement: F.Sc/ICS with Mathematics from any recognized board or equivalent with at least 50% marks. Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS IT Program Degree Requirement: Total Credit Hours: 133-134 *, Total Courses: 37-43, Minimum CGPA \geq 2.0, Academic Rule

7. **Telecommunication Engineering (TE):** Communication is transformed into telecommunication. Telecommunication Engineering Department at BUITEMS is focused on transforming industry and academia and helps you in accelerating in the field of telecommunication. The program is attentive to the cutting-edge research in the emerging technologies of AI, Blockchain, and 5G and beyond, to address the future challenges in the telecommunication industry. The program helps you in availing the available opportunity in the field. We provide students with a platform to showcase their creativity and innovation and welcome to the demonstrate their ideas at the Department. The Department of Telecommunication Engineering at BUITEMS started its journey in 2005 as an undergraduate program, and the first batch is passed out in 2009. Since 2009 approximately 50 students are equipped with telecommunication knowledge and skill each year. The department features several industrial disciplines such as RF and microwave, satellite communication, Optical fiber communication, Wireless & Mobile Communication and Analog & Digital Communication that helps student shaping in these areas. The department expended its offering to MS in 2013 and initiated cutting-edge research in the state-of-the-art research fields. We are committed to prepare students for future challenges and impart the practical and theoretical knowledge in telecommunications that helps students in demonstrating their skills and abilities to handle the telecommunications systems. We provide leading-edge knowledge in the field and equip students for the available opportunities in the field. The program is dedicated to expanding its research capacities and abilities and ensure cutting edge research in the contemporary fields such as Blockchain, Artificial Intelligence (AI), Enabled telecommunication networks & systems, and 5G & beyond networks. We ensure a prominent future for our students and staff through our efforts in research and development in telecommunications.

Chairperson of Telecommunication Engineering (TE): Faizullah Khan

BS TE Program Admission Requirement: F.Sc (Pre-Engineering)/ICS with Mathematics and Physics from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer (DAE) in the relevant field securing at least 60% marks. Entry test will be conducted by NTS.

BS TE Program Degree Requirement: Total Credit Hours: 130-145 *, Total Courses: 42-44, Minimum CGPA \geq 2.0, Academic Rules.

Courses/subjects:

Computer Science: The Bachelor of Science in Computer Science is structured as a four-year (eight semester) program, where students must complete a designated set of courses across each semester.

Here's a breakdown of the courses, prerequisites, and credit hours for each semester:

First Semester:

1. CS-110/CS-110L - Introduction to ICT (Prerequisite: None, Credit Hours: 2+1)
2. CS- 114/CS-114L - Programming Fundamentals (Prerequisite: None, Credit Hours: 3+1)
3. HUM-175 - English Composition & Comprehension (Prerequisite: None, Credit Hours: 3+0)
4. MATHP-105 - Calculus & Analytical Geometry (Prerequisite: None, Credit Hours: 3+0)
5. PHY-205/PHY-205L - Applied Physics (Prerequisite: None, Credit Hours: 2+1)
6. HUM-101 Islamic Studies (Prerequisite: None, Credit Hours: 2+0)

Second Semester:

1. CS-212/L - Object Oriented Programming (Prerequisite: Programming Fundamentals, Credit Hours: 3+1)
2. Hum-268 - Communication & Presentation Skills (Prerequisite: English Composition & Comprehension, Credit Hours: 3+0)
3. CS Supporting I - Multivariable Calculus (Prerequisite: Calculus & Analytical Geometry, Credit Hours: 3+0)
4. EE-102/L - Digital Logic & Design (Prerequisite: None, Credit Hours: 3+1)
5. MATHA-234 - Discrete Structures (Prerequisite: Applied Physics, Credit Hours: 3+0)

Third Semester:

1. CS-214/L - Data Structure & Algorithms (Prerequisite: Object Oriented Programming, Credit Hours: 3+1)
2. CS-334 - Software Engineering (Prerequisite: None, Credit Hours: 3+0)
3. CE-213/L - Computer Organization and Assembly Language (Prerequisite: Digital Logic & Design, Credit Hours: 3+1)
4. University Elective I – Principle of Accounting (Prerequisite: None, Credit Hours: 3+0)
5. MATHP-111 - Linear Algebra (Prerequisite: None, Credit Hours: 3+0)

Fourth Semester:

1. CS-341/L - Operating Systems (Prerequisite: Data Structure & Algorithms, Credit Hours: 3+1)
2. TE-307/L - Computer Networks (Prerequisite: None, Credit Hours: 3+1)
3. CS-321 - Theory of Automata (Prerequisite: None, Credit Hours: 3+0)
4. CS Supporting II – Numerical Computing (Prerequisite: None, Credit Hours: 3+0)
5. University Elective II –Management Information Systems: (Prerequisite: None, Credit Hours: 3+0)

Fifth Semester:

1. HUM-266 - Technical & Business Writing (Prerequisite: None, Credit Hours: 3+0)
2. CS-421 - Compiler Construction (Prerequisite: Theory of Automata, Credit Hours: 3+0)

3. CS-412/L - Artificial Intelligence (Prerequisite: Discrete Structures, Credit Hours: 3+1) 4. CS-332/L - Database Systems (Prerequisite: Data Structure and Algorithm, Credit Hours: 3+1)
4. STAT-101 - Probability and Statistics (Prerequisite: None, Credit Hours: 3+0)

Sixth Semester:

1. CS-424 - Design & Analysis of Algorithm (Prerequisite: Data Structure and Algorithm, Credit Hours: 3+0)
2. Computer Science Elective I – Mobile Application Development (Prerequisite: None, Credit Hours: 2+1)
3. Computer Science Elective II – Web Development (Prerequisite: None, Credit Hours: 2+1)
4. CS Supporting III – Graph Theory (Prerequisite: None, Credit Hours: 3+0)
5. University Elective III – Digital Marketing Freelancing (Prerequisite: None, Credit Hours: 3+0)
6. University Elective IV – Software Architecture Design (Prerequisite: None, Credit Hours: 3+0)

Seventh Semester:

1. Final Year Project-I (Prerequisite: Software Engineering, Technical & Business Writing, Credit Hours: 0+3)
2. HUM-309 - Professional Practices (Prerequisite: None, Credit Hours: 3+0)
3. Parallel & Dist. Computing (Prerequisite: Operating Systems, Credit Hours: 3+0)
4. Information Security (Prerequisite: None, Credit Hours: 3+0)
5. Computer Science Elective III – Introduction to Data Sciences (Prerequisite: None, Credit Hours: 3+1)

Eighth Semester:

1. Final Year Project-II (Prerequisite: Final Year Project-I, Credit Hours: 0+3)
2. HUM-102 - Pakistan Studies (Prerequisite: None, Credit Hours: 2+0)
3. Computer Science Elective IV – Machine Learning (Prerequisite: None, Credit Hours: 3+0)
4. Computer Science Elective V – Information Technology Project Management (Prerequisite: None, Credit Hours: 3+0)
5. University Elective V – Entrepreneurship & Leadership (Prerequisite: None, Credit Hours: 3+0)

Software Engineering:

First Semester:

1. IT-102 - Information and Communication Technology (ICT) (Prerequisite: None, Credit Hours: 2-1)
2. SE-2XX - Software Engineering Fundamentals (Prerequisite: None, Credit Hours: 3-0)
3. ENG-161 - Reading and writing skills (Prerequisite: None, Credit Hours: 3-0)
4. PHY-205 - Applied Physics (Prerequisite: None, Credit Hours: 2-1)
5. HUM-138 - Psychology (Prerequisite: None, Credit Hours: 2-0)
6. HUM-1XX - Islamic Studies and Ethics (Prerequisite: None, Credit Hours: 2-0)

7. XX-1XX - Occupational Health and Safety (Prerequisite: None, Credit Hours: 1-0)

Second Semester:

1. CS-114 - Programming Fundamentals (Prerequisite: None, Credit Hours: 3-1)
2. ENG-361 - Communication & Presentation Skills (Prerequisite: None, Credit Hours: 3-0)
3. MATHA-234 - Discrete Structures (Prerequisite: None, Credit Hours: 3-0)
4. MATHP-118 - Calculus & Analytical Geom. (Prerequisite: None, Credit Hours: 3-0)
5. CS-119 - Web Development (WD) (Prerequisite: None, Credit Hours: 2-1)
6. HUM-102 - Pakistan Studies and Global Perspective (Prerequisite: None, Credit Hours: 2-0)

Third Semester:

1. CS-212 - Object-Oriented Programming (Prerequisite: Programming Fundamentals, Credit Hours: 3-1)
2. STAT-101 - Probability & Statistics (Prerequisite: None, Credit Hours: 3-0)
3. CE-2XX - Computer Architecture and Logic Design (Prerequisite: None, Credit Hours: 3-1)
4. MATHP-111 - Linear Algebra (Prerequisite: None, Credit Hours: 3-0)
5. CE-302 - SE Elective I (Web Engineering (WE)) (Prerequisite: WD, Credit Hours: 2-1)

Fourth Semester:

1. CS-214 - Object-Oriented Programming (Prerequisite: Object-Oriented Programming, Credit Hours: 3-1)
2. SE-231 - Software Design & Architecture (Prerequisite: Software Engineering Fundamentals, Credit Hours: 2-1)
3. IT-3XX - Human-Computer Interaction (Prerequisite: None, Credit Hours: 2-1)
4. XX-XXX - SE Elective – II (Prerequisite: None, Credit Hours: 3-0)
5. MGMT-206 - Principles of Management (Prerequisite: None, Credit Hours: 3-0)
6. MATHA-213 - Complex Variables and Transform (Prerequisite: None, Credit Hours: 2-0)

Fifth Semester:

1. SE-332 - Software Construction and Development (Prerequisite: Software Design & Architecture, Credit Hours: 2-1)
2. MGMT-2XX - Entrepreneurship and Marketing (Prerequisite: None, Credit Hours: 2-0)
3. XX-XXX - SE Elective – III (Prerequisite: None, Credit Hours: 3-0)
4. CS-332 - Database Systems (Prerequisite: None, Credit Hours: 3-1)
5. CS-341 - Operating Systems (Prerequisite: None, Credit Hours: 3-1)

Sixth Semester:

1. SE-321 - Software Quality Engineering (Prerequisite: Software Engineering Fundamentals, Credit Hours: 3-0)
2. TE-307 - Computer Networks (Prerequisite: None, Credit Hours: 3-1)
3. MATHA-216 - Numerical Analysis (Prerequisite: None, Credit Hours: 2-1)
4. XX-XXX - MDEE- I (Prerequisite: None, Credit Hours: 3-0)
5. HUM-266 - Technical & Business Writing (Prerequisite: None, Credit Hours: 3-0)

Seventh Semester:

1. SE-352 - Software Project Management (Prerequisite: None, Credit Hours: 3-0)
2. IT-321 - Information Security (Prerequisite: None, Credit Hours: 3-0)
3. SE-491L - Senior Design Project – I (Prerequisite: None, Credit Hours: 0-3)
4. XX-XXX - SE Elective – IV (Prerequisite: None, Credit Hours: 3-0)
5. CS-4XX - Design and Analysis of Algorithms (Prerequisite: Data Structure and Algorithm, Credit Hours: 3-0)

Eighth Semester:

1. XX-XXX - MDEE-II (Prerequisite: None, Credit Hours: 3-0)
2. SE-492L - Senior Design Project – II (Prerequisite: Senior Design Project – I, Credit Hours: 0-3)
3. XX-XXX - SE Elective – V (Prerequisite: None, Credit Hours: 3-0)
4. XX-XXX - SE Elective – VI (Prerequisite: None, Credit Hours: 3-0)
5. SE-471 - Formal Methods in Software Engineering (Prerequisite: None, Credit Hours: 3-0)

Electronic Engineering:

First Semester:

1. HUM-163 - Functional English (Prerequisite: None, Credit Hours: 3+0)
2. MATHP-118 - Calculus and Analytical Geometry (Prerequisite: None, Credit Hours: 3+0)
3. EE-112/ EE-112L - Linear Circuit Analysis (Prerequisite: None, Credit Hours: 3+1)
4. PHY-205/ PHY-205L - Applied Physics (Prerequisite: None, Credit Hours: 2+1)
5. CS-120/CS-120L - Computer Fundamentals & Programming (Prerequisite: None, Credit Hours: 2+1)
6. ELE-102L - Workshop Practice (Prerequisite: None, Credit Hours: 0+1)

Second Semester:

1. HUM-268 - Communication Skills (Prerequisite: None, Credit Hours: 3+0)
2. HUM-101 - Islamic Studies (Prerequisite: None, Credit Hours: 2+0)
3. EE-208/ EE-208L - Electronic Devices & Circuits (Prerequisite: None, Credit Hours: 3+1)
4. ENGG-217L - Engineering Drawing (Prerequisite: None, Credit Hours: 0+1)
5. HUM-102 - Pakistan Studies (Prerequisite: None, Credit Hours: 2+0)
6. MATHP-111 - Linear Algebra (Prerequisite: None, Credit Hours: 3+0)

Third Semester:

1. STAT-403 - Probability & Random Variables (Prerequisite: None, Credit Hours: 3+0)
2. MATHA-214 - Differential Equations (Prerequisite: Calculus and Analytical Geometry and Linear Algebra, Credit Hours: 3+0)
3. EE-110/ EE-110L - Digital Logic Design (Prerequisite: None, Credit Hours: 3+1)
4. EE-204/ EE-204L - Instrumentation & Measurements (Prerequisite: Electronic Devices & Circuits, Credit Hours: 2+1)
5. EE-109/ EE-109L - Electronic Circuit Design (Prerequisite: None, Credit Hours: 3+1)

Fourth Semester:

1. HUM-276 - TRW & PS (Prerequisite: None, Credit Hours: 3+0)

2. MATHA-213 - Complex Variables and Transform (Prerequisite: None, Credit Hours: 3+0)
3. EE-491/ EE-491L - Analog Integrated Electronics (Prerequisite: Electronic Circuit Design, Credit Hours: 2+1)
4. EE-201/ EE-201L - Electrical Network Analysis (Prerequisite: Linear Circuit Analysis, Credit Hours: 3+1)
5. CE-324/ CE-324L - Microprocessors and Microcontrollers (Prerequisite: Digital Logic Design, Credit Hours: 3+1)

Fifth Semester:

1. EE-324/ EE-324L - Electrical Machines (Prerequisite: None, Credit Hours: 3+1)
2. STAT-403 - Signal & Systems (Prerequisite: None, Credit Hours: 2+1)
3. EE-241/ EE-241L - Control Systems (Prerequisite: Linear Algebra, Credit Hours: 3+1)
4. CS-212/ CS-212L - Object Oriented Programming for Engineers (Prerequisite: None, Credit Hours: 3+1)
5. TE-301/ TE-301L - Data Communication & Networks (Prerequisite: Communication Systems, Credit Hours: 2+1)

Sixth Semester:

1. EE-421 - Power Electronics (Prerequisite: Electrical Machines, Credit Hours: 3+1)
2. MATHA-216/ MATHA-216L - Numerical Analysis (Prerequisite: None, Credit Hours: 2+1)
3. EE-XX - IDEE-I (Prerequisite: None, Credit Hours: 3+0)
4. TE-314 / TE-314L - Communication Systems (Prerequisite: Signals and Systems, Credit Hours: 3+1)
5. MGMT-XX - Management Elective-I (Prerequisite: None, Credit Hours: 3+0)

Seventh Semester:

1. EE-XX - Elective-I (Prerequisite: None, Credit Hours: 3+0)
2. EE-XX - Elective-II (Prerequisite: None, Credit Hours: 3+0)
3. MGMT-XX - Management Elective-II (Prerequisite: None, Credit Hours: 3+0)
4. EE-441/ EE441L - Industrial Electronics (Prerequisite: None, Credit Hours: 3+1)
5. XX-XX - Social Science Elective - I (Prerequisite: None, Credit Hours: 2+0)
6. EE-481L - Final Year Project Part-I (Prerequisite: None, Credit Hours: 0+3)

Eighth Semester:

1. EE-XX - Elective-III (Prerequisite: None, Credit Hours: 3+0)
2. EE-XX - Elective-IV (Prerequisite: None, Credit Hours: 3+0)
3. TE-412/ TE-412L - Digital Signal Processing (Prerequisite: Signals & Systems, Credit Hours: 2+1)
4. XX-XX - Social Science Elective-II (Prerequisite: None, Credit Hours: 2+0)
5. XX-XX - IDEE-II (Prerequisite: None, Credit Hours: 3+0)
6. EE-482L - Final Year Project Part-II (Prerequisite: Final Year Project Part-I, Credit Hours: 0+3)

Electrical Engineering:

First Semester:

1. HUM-161 - Functional English (Prerequisite: None, Credit Hours: 3+0)

2. MATHP-118 - Calculus and Analytic Geometry (Prerequisite: None, Credit Hours: 3+0)
3. CS-107 - Introduction to Computing (Prerequisite: None, Credit Hours: 1+1)
4. HUM-101 - Islamic Studies/ Ethics (Prerequisite: None, Credit Hours: 2+0)
5. PHY-205 - Applied Physics (Prerequisite: None, Credit Hours: 3+1)
6. ENGG-201L - Engineering Drawing (Prerequisite: None, Credit Hours: 0+1)

Second Semester:

1. MATHP-214 - Differential Equations (Prerequisite: Calculus and Analytic Geometry, Credit Hours: 3+0)
2. ELE-112 - Linear Circuit Analysis (Prerequisite: None, Credit Hours: 3+1)
3. ELE-102L - Workshop Practices (Prerequisite: None, Credit Hours: 0+1)
4. HUM-102 - Pakistan Studies (Prerequisite: None, Credit Hours: 2+0)
5. CS-114 - Programming Fundamentals (Prerequisite: Introduction to Computing, Credit Hours: 3+1)
6. ELE-208 - Electronic Devices and Circuits Prerequisite: None, Credit Hours: 3+1)

Third Semester:

1. MATHP-111 - Linear Algebra (Prerequisite: None, Credit Hours: 3+0)
2. HUM-268 - Communication and Presentation Skills (Prerequisite: None, Credit Hours: 3+0)
3. ELE-110 - Digital Logic Design (Prerequisite: None, Credit Hours: 3+1)
4. MATHA-213 - Complex Variables and Transforms (Prerequisite: None, Credit Hours: 3+0)
5. ELE-201 - Electrical Network Analysis (Prerequisite: Linear Circuit Analysis, Credit Hours: 3+1)

Fourth Semester:

1. ELE-213 - Electromagnetic Field Theory (Prerequisite: Calculus and Analytic Geometry, Credit Hours: 3+0)
2. ELE-425 - Embedded Systems (Prerequisite: Digital Logic Design & Programming Fundamentals, Credit Hours: 3+1)
3. ELE-261 - Signal & Systems (Prerequisite: Complex Variables and Transforms, Credit Hours: 3+1)
4. ELE-202 - Probability Methods in Engineering (Prerequisite: Calculus and Analytic Geometry, Credit Hours: 3+0)
5. HUM-XXX - Social Sciences Elective-I (Prerequisite: None, Credit Hours: 2+0)

Fifth Semester:

1. ELE-212 - Electrical Machines (Prerequisite: Electrical Network Analysis, Credit Hours: 3+1)
2. HUM-264 - Technical Report Writing (Prerequisite: None, Credit Hours: 3+0)
3. ELE-XXX - Breadth Core - I (Prerequisite: None, Credit Hours: 3+1)
4. CS-XXX - Computing Elective (Prerequisite: Programming Fundamentals, Credit Hours: 3+1)
5. PHY/MATHA-X - Natural Sciences Elective (Prerequisite: None, Credit Hours: 3+0)

Sixth Semester:

1. TE-314 - Communication Systems (Prerequisite: Signal & Systems, Credit Hours: 3+1)

2. ELE-214 - Linear Control Systems (Prerequisite: Signal & Systems, Credit Hours: 3+1)
3. ELE-XXX - Breadth Core - II (Prerequisite: None, Credit Hours: 3+1)
4. MGMT-XXX - Social Sciences Elective - II (Prerequisite: None, Credit Hours: 2+0)
5. XXX-XXX - IDEE - I (Prerequisite: None, Credit Hours: 3+1)

Seventh Semester

1. ELE-XXX - Depth Elective - I (Prerequisite: None, Credit Hours: 3+1)
2. ELE-XXX - Depth Elective - II (Prerequisite: None, Credit Hours: 3+1)
3. ELE-XXX - Depth Elective - III (Prerequisite: None, Credit Hours: 3+0)
4. MGMT-XXX - Management Sciences Elective - I (Prerequisite: None, Credit Hours: 3+0)
5. ELE-436 - Senior Design Project - I (Prerequisite: None, Credit Hours: 0+3)

Eighth Semester:

1. ELE-XXX - Depth Elective - IV (Prerequisite: None, Credit Hours: 3+1)
2. ELE-XXX - Depth Elective - V (Prerequisite: None, Credit Hours: 3+0)
3. MGMT-XXX - Management Sciences Elective - II (Prerequisite: None, Credit Hours: 3+0)
4. XXX-XXX - IDEE - II (Prerequisite: None, Credit Hours: 3+1)
5. ELE-437 - Senior Design Project - II (Prerequisite: Senior Design Project - I, Credit Hours: 0+3)

Computer Engineering:

First Semester:

1. CS 118\L- Computer Fundamentals (Prerequisite: None, Credit Hours: 2+1)
2. PHY 205\L- Applied Physics (Prerequisite: None, Credit Hours: 2+1)
3. MATHP 118 - Calculus & Analytical Geometry (Prerequisite: None, Credit Hours: 3)
4. HUM 101 - Islamic Studies/Ethics (Prerequisite: None, Credit Hours: 2)
5. ENG 161 - Reading and Writing Skills (Eng.-I) (Prerequisite: None, Credit Hours: 3)
6. ENGG 202L - Workshop Practice Lab (Prerequisite: None, Credit Hours: 1)
7. ENVIRON-102 - Occupational Health and Safety (Prerequisite: None)

Second Semester:

1. CS 112\L - Computer Programming (Prerequisite: None, Credit Hours: 3+1)
2. MATHP 111 - Linear Algebra (Prerequisite: None, Credit Hours: 2)
3. EE 221\L - Electronic Circuits and Devices (Prerequisite: None, Credit Hours: 3+1)
4. ENG 361 - Communication Skills (Prerequisite: None, Credit Hours: 2)
5. EE 203\L- Linear Circuit Analysis (Prerequisite: None, Credit Hours: 3+1)
6. HUM 102 - Pakistan Studies and Global Perspective (Prerequisite: None, Credit Hours: 2)

Third Semester:

1. TE 305\L - Computer Comm. and Networks (Prerequisite: None, Credit Hours: 3+1)
2. CS 212\L - Object-Oriented Programming (Prerequisite: Computer Programming, Credit Hours: 3+1)
3. MATHA 213 - Complex Variables and Transforms (Prerequisite: None, Credit Hours: 3)
4. EE 110\L - Digital Logic Design (Prerequisite: None, Credit Hours: 3+1)

5. MATHA 234 - Discrete Structures (Prerequisite: None, Credit Hours: 3)

Fourth Semester:

1. EE 261\L - Signals & Systems (Prerequisite: Complex Variables and Transforms, Credit Hours: 3+1)
2. CE 211\L - Computer Architecture and Organization (Prerequisite: Digital Logic Design, Credit Hours: 3+1)
3. MATHA 214 - Differential Equations (Prerequisite: Calculus & Analytical Geometry, Credit Hours: 3)
4. CS 214\L - Data Structures & Algorithms (Prerequisite: Object-Oriented Programming, Credit Hours: 3+1)
5. MS-Elective I (Prerequisite: None, Credit Hours: 3)

Fifth Semester:

1. CE 326\L - Microprocessors and Interfacing (Prerequisite: Computer Architecture and Organization, Credit Hours: 3+1)
2. CS 341\L - Operating Systems (Prerequisite: Object-Oriented Programming, Credit Hours: 3+1)
3. TBA - Social Science-Elective I (Prerequisite: None, Credit Hours: 2)
4. HUM 292 - Technical Writing (Prerequisite: None, Credit Hours: 3)
5. TE 412\L - Digital Signal Processing (Prerequisite: Signals & Systems, Credit Hours: 3+1)

Sixth Semester:

1. TBA - CEDE - I (Prerequisite: TBA, Credit Hours: 2+1 or 3)
2. TBA - CEDE - II (Prerequisite: TBA, Credit Hours: 2+1 or 3)
3. MATHA 217 - Probability Methods in Engineering (Prerequisite: None, Credit Hours: 3)
4. CS 331\L - Database Management Systems (Prerequisite: None, Credit Hours: 3+1)
5. EE 302\L - Digital System Design (Prerequisite: Digital Logic Design, Credit Hours: 3+1)

Seventh Semester:

1. TBA - MDEE – I (Prerequisite: None, Credit Hours: 2+1 or 3)
2. TBA - CEDE-III (Prerequisite: TBA, Credit Hours: 2+1 or 3)
3. TBA - Numerical Analysis (Prerequisite: TBA, Credit Hours: 2)
4. TBA - Numerical Analysis Lab (Prerequisite: TBA, Credit Hours: 1)
5. CE 451L - Senior Design Project-I (Prerequisite: None, Credit Hours: 3)
6. CE 303\L - Software Engineering (Prerequisite: None, Credit Hours: 2+1)

Eighth Semester:

1. TBA - CEDE - IV (Prerequisite: TBA, Credit Hours: 2+1 or 3)
2. TBA - Management Science Elective-II (Prerequisite: None, Credit Hours: 3)
3. TBA - MDEE – II (Prerequisite: None, Credit Hours: 3)
4. CE 452L - Senior Design Project-II (Prerequisite: Senior Design Project-I, Credit Hours: 3)
5. TBA - Social Science Elective-II (Prerequisite: None, Credit Hours: 3)

Telecommunication Engineering:

First Semester:

1. HUM-163 Functional English (Prerequisite: None, Credit Hours: 3+0)
2. MATHP-118 Calculus & Analytical Geometry (Prerequisite: None, Credit Hours: 3+0)
3. HUM-101 Islamic Studies / Ethical Behavior (Prerequisite: None, Credit Hours: 2+0)
4. PHY-205 Applied Physics (Prerequisite: None, Credit Hours: 3+1)
5. CE-162L Computer Aided Engineering Design (Prerequisite: None, Credit Hours: 0+1)
6. CS-114 Programming Fundamentals (Prerequisite: None, Credit Hours: 2+1)
7. EE-103L Electronics Workshop (Prerequisite: None, Credit Hours: 0+1)

Second Semester:

1. MATHA-214 Differential Equations (Prerequisite: Calculus and Analytical Geometry, Credit Hours: 3+0)
2. HUM-268 Communication Skills (Prerequisite: None, Credit Hours: 3+0)
3. EE-102 Digital Logic Design (Prerequisite: None, Credit Hours: 3+1)
4. EE-203 Circuit Analysis (Prerequisite: None, Credit Hours: 3+1)
5. CS-212 Object Oriented Programming (Prerequisite: Programming Fundamentals, Credit Hours: 3+1)

Third Semester:

1. MATHA-213 Complex Variables & Transforms (Prerequisite: Calculus & Analytical Geometry, Credit Hours: 3+0)
2. HUM-102 Pakistan Studies (Prerequisite: None, Credit Hours: 2+0)
3. ELE-201 Electrical Network Analysis (Prerequisite: Circuit Analysis, Credit Hours: 2+1)
4. MATHP-111 Linear Algebra (Prerequisite: None, Credit Hours: 3+0)
5. CS-214 Data Structures and Algorithms (IDEE-I) (Prerequisite: None, Credit Hours: 2+1)
6. EE-208 Electronic Devices and Circuits (Prerequisite: Applied Physics, Credit Hours: 3+1)

Fourth Semester:

1. TE-408 Computer Communications & Networks (Prerequisite: None, Credit Hours: 3+1)
2. CE-324 Microprocessors and Microcontrollers (Prerequisite: Digital Logic Design, Credit Hours: 3+1)
3. ELE-202 Probability Methods in Engineering (Prerequisite: None, Credit Hours: 3+0)
4. EE-261 Signals & Systems (Prerequisite: Complex Variables and Transforms, Credit Hours: 3+0)
5. EE-105 Electromagnetic Theory (Prerequisite: Calculus & Analytical Geometry, Credit Hours: 3+0)

Fifth Semester:

1. TE - 433 Wave Propagation & Antennas (Prerequisite: Electromagnetic Theory, Credit Hours: 3+1)
2. TE-314 Communication Systems (Prerequisite: None, Credit Hours: 3+1)
3. HUM-264 Technical Report Writing (Prerequisite: None, Credit Hours: 3+0)
4. TE-412 Digital Signal Processing (Prerequisite: Signals and Systems, Credit Hours: 3+1)
5. EE-241 Control Systems (Prerequisite: Linear Algebra, Credit Hours: 2+1)

Sixth Semester:

1. TE-442 Optical Fiber Communications (Prerequisite: None, Credit Hours: 3+1)

2. (IDEE-II) (Prerequisite: None, Credit Hours: 2+1)
3. TE-313 Digital Communications (Prerequisite: Probability Methods in Engineering, Credit Hours: 3+1)
4. MGMT-202 Entrepreneurship & Leadership (Prerequisite: None, Credit Hours: 3+0)
5. TE-415 Transmission and Switching Systems (Prerequisite: None, Credit Hours: 3+1)

Seventh Semester:

1. TE-432 Microwave Engineering (Prerequisite: Wave Propagation & Antennas, Credit Hours: 3+1)
2. TE-425 Emerging Wireless Technologies and RF Planning (Prerequisite: None, Credit Hours: 3+0)
3. TE-422 MBC I (Telecom Traffic Engineering) (Prerequisite: Probability Methods in Engineering, Credit Hours: 3+0)
4. ECON-105 Engineering Economics (Prerequisite: None, Credit Hours: 3+0)
5. TE-452L Final Year Project-I (Prerequisite: None, Credit Hours: 0+3)
6. CE-303 Software Engineering (Prerequisite: None, Credit Hours: 2+1)
7. CE-303L Software Engineering Lab (Prerequisite: None, Credit Hours: 1)

Eighth Semester:

1. MGMT-304 Organizational Behavior or Sociology (Prerequisite: None, Credit Hours: 3+0)
2. TE-423 MBC II (Telecom Policies & Regulation) (Prerequisite: None, Credit Hours: 3+0)
3. TE-441 / TE-409 MBC III (Satellite Communication or Network Security) (Prerequisite: None, Credit Hours: 3+0)
4. HUM-302 Professional Practices (Prerequisite: None, Credit Hours: 3+0)
5. TE-453L Final Year Project-II (Prerequisite: Senior Design Project-I, Credit Hours: 0+3)

Information Technology:

First Semester:

1. IT-102/IT-102L Introduction to ICT (Prerequisite: None, Credit Hours: 2+1)
2. CS-114/CS-114L Programming Fundamentals (Prerequisite: None, Credit Hours: 3+1)
3. HUM-364 English Composition & Comprehension (Prerequisite: None, Credit Hours: 3+0)
4. MATHP-105 Basic Mathematics (Prerequisite: None, Credit Hours: 3+0)
5. PHY-205/PHY-205L Applied Physics (Prerequisite: None, Credit Hours: 2+1)
6. HUM-101 Islamic Studies (Prerequisite: None, Credit Hours: 2+0)

Second Semester:

1. CS-212/L Object-Oriented Programming (Prerequisite: Programming Fundamentals, Credit Hours: 3+1)
2. ENG-361 Communication & Presentation Skills (Prerequisite: None, Credit Hours: 3+0)
3. MATHP-118 Calculus & Analytical Geometry (Prerequisite: Basic Mathematics, Credit Hours: 3+0)
4. HUM-102 Pakistan Studies (Prerequisite: None, Credit Hours: 2+0)
5. University Elective - I (Prerequisite: None, Credit Hours: 3+0)
6. MATHA-234 Discrete Structures (Prerequisite: None, Credit Hours: 3+0)

Third Semester:

1. CS-214/L Data Structures & Algorithms (Prerequisite: Programming Fundamentals, Credit Hours: 3+1)
2. CS-332/L Database Systems (Prerequisite: Introduction to ICT, Credit Hours: 3+1)
3. TE-307/L Computer Networks (Prerequisite: None, Credit Hours: 3+1)
4. University Elective II (Prerequisite: None, Credit Hours: 3+0)
5. MATHP-111 Linear Algebra (Prerequisite: None, Credit Hours: 3+0)

Fourth Semester:

1. CS-341/L Operating Systems (Prerequisite: None, Credit Hours: 3+1) IT-332/L Web Technologies (Prerequisite: Programming Fundamentals, Credit Hours: 2+1)
2. IT-321 Information Security (Prerequisite: None, Credit Hours: 3+0)
3. STAT-101 Probability & Statistics (Prerequisite: None, Credit Hours: 3+0)
4. University Elective III (Prerequisite: None, Credit Hours: 3+0)

Fifth Semester:

1. HUM-266 Technical & Business Writing (Prerequisite: None, Credit Hours: 3+0)
2. IT-421/L System & Network Administration (Prerequisite: Computer Networks, Credit Hours: 3+1)
3. CE-303 Software Engineering (Prerequisite: None, Credit Hours: 3+0)
4. IT-341 IT Infrastructure (Prerequisite: None, Credit Hours: 3+0)
5. CS-231/L DB Administration and Management (Prerequisite: Database Systems, Credit Hours: 3+1)

Sixth Semester:

1. IT Supporting I (Prerequisite: None, Credit Hours: Varies)
2. IT Elective I (Prerequisite: None, Credit Hours: Varies)
3. IT-303/L Virtual Systems & Services (Prerequisite: Operating Systems, Credit Hours: 3+1)
4. MGMT-212 Entrepreneurship & Leadership (Prerequisite: None, Credit Hours: 3+0)
5. IT Elective II (Prerequisite: None, Credit Hours: Varies)

Seventh Semester:

1. Final Year Project-I (Prerequisite: None, Credit Hours: 0+3)
2. IT Elective III (Prerequisite: None, Credit Hours: 3+0)
3. CE-132 Cyber Security (Prerequisite: Information Security, Credit Hours: 3+0)
4. IT Supporting II (Prerequisite: None, Credit Hours: 3+0)
5. IT Supporting III (Prerequisite: None, Credit Hours: 3+0)

Eighth Semester:

1. Final Year Project-II (Prerequisite: None, Credit Hours: 0+3)
2. University Elective IV (Prerequisite: None, Credit Hours: 3+0)
3. IT Elective IV (Prerequisite: None, Credit Hours: 3+0)
4. IT Elective V (Prerequisite: None, Credit Hours: 3+0)
5. HUM-302 Professional Practices (Prerequisite: None, Credit Hours: 3+0)

Scholarships:

Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS) is an equal opportunity institution dedicated to supporting all qualified students seeking higher education, regardless of their financial status. The university offers a range of scholarships to promote academic excellence, including merit scholarships that are awarded to the top 10% of students in each program. These students receive fee concessions every semester based on their previous semester's GPA, ensuring that diligent and industrious students have the opportunity to access free or subsidized education.

Additionally, students from extremely low-income backgrounds are eligible for monetary assistance through fee concessions, which range from 25% to 100%. To qualify for these concessions, applicants must submit documentation that is verified for accuracy, and an interview is conducted following their online application.

The Sibling Scholarship program further supports families with multiple students enrolled at BUITEMS. If two siblings are studying at the university, the senior sibling will receive a 50% fee concession. If three siblings are enrolled, the senior sibling qualifies for a 100% fee concession. Students can download application forms from the BUITEMS website at [BUITEMS Students](#) or obtain them from the BUITEMS TUC shop. For further details, students are encouraged to visit the Admin office.

Types of Scholarships:

BUITEMS offers several scholarships to facilitate students during their studies:

1. Merit Scholarship
2. Fee Waivers
3. BUITEMS Kinship/Sibling Scholarship
4. Work & Study Program
5. Donors' Scholarships

Additionally, various donors support our committed students through scholarships. Notably, the Higher Education Commission of Pakistan has established programs to aid and accommodate needy yet diligent students through scholarships offered by multiple organizations.

Professional Education Foundation (PEF) Scholarship Program

PEF scholarship are announce for the students of 1st semester only.

Apply online on the given link and submit the hard form, available at Tuck shop, to the Financial Aid Office.

Eligibility Criteria:

- 1st semester student
- Students studying in any Engineering program, CS, IT and BSBA.

Documents Required:

- Attested copy of mark sheet of matric and intermediate.
- Supporting document in case you have any physical disability.
- Supporting document which proves loss of father in case of orphan. (Death Certificate)

- Proof of income of the family (Certificate or salary slip of the father and of other earning members) or a certificate from a local Councilor or Imam e Masjid.
- Name of two persons with their address and telephone nos. who knows you and your family and can provide confirmation if needed by the foundation.

Teachers

1. **Dr. Bakhtiar Khan Kasi**, PhD, bakhtiar.kasi@buitms.edu.pk, Ext: 717, Dean of Faculty of Information and Communication Technology (FICT), expertise in Artificial Intelligence, Machine Learning, Information Retrieval, Constraint Processing, Static Analysis, Big Data Analysis, SMT Solving, Natural Language Processing, Office No: SSA-62.
2. **Dr. Muhammad Akram**, PhD, akram.khan@buitms.edu.pk, Ext: 708, Associate Dean and Professor in Software Engineering (SE), expertise in Distributed Systems, Software Project Management, Software System Security, Office No: SSA-65.
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- Sheikh Jaffar Khan Mandokhail (Chancellor) - Governor Balochistan

Faculty

1. **FICT (Faculty of Information & Communication Technology)**: The Faculty of Information of Communication Technology (FICT) is an exceptional community of students, educators, scholars, and researchers who embrace the breadth of the computing and engineering professions. We are a diverse and vibrant community committed to foster advancements, promoting inter-disciplinary cross-cutting technological breakthroughs in a variety of fields including, artificial intelligence, robotics, embedded systems, electrical engineering, computer hardware, and software systems. The FICT has seven departments offering degree programs at the undergraduate and graduate levels in the disciplines of Computer Science, Software Engineering, Electrical Engineering, Telecommunication Engineering, Electronic Engineering, Information Technology, and Computer Engineering. Our undergraduate degrees are carefully designed for engineers and computing professionals to cope with the strains of the fourth industrial revolution (Industry 4.0) and to cater to the specific needs of government and industry; promoting interdisciplinary research. We emphasize in nourishing entrepreneurial skills in our students, preparing them to contribute to the knowledge economy of the country.

Dean of FICT: Dr. Bakhtiar Khan Kasi.

Offered Programs by FICT: Computer Science, Computer Engineering, Software Engineering, Electronic Engineering, Electrical Engineering, Telecommunication Engineering, Information Technology

2. **FBS (Faculty of Basic Sciences):** The faculty of Basic Sciences imparts education in the subjects of Physics, Chemistry, and Mathematical Sciences. The Faculty is committed to providing the best possible facilities in all these subjects. To achieve this goal, the faculty is providing proper education and training with an analytical and practical approach in a stimulating intellectual environment. We prepare the students for challenges of the modern world and imbue them with a competitive spirit. The basic sciences are the precursors to the highly competitive professions of medicine, engineering, computer and many applied scientific disciplines. Our aim is on the acquisition of practical knowledge in the relevant science laboratories. The primary focus of the FBS is teaching and research. The faculty offers both master and doctor degree program. All the courses are designed to produce not only skilled professionals but also good human beings. Learning at FBS goes beyond classrooms, the students are provided with ample opportunities to explore, research and innovate utilizing state of the art facilities at the university under the supervision of highly qualified faculty.

Dean of FBS: Dr. Muhammad Naeem Shahwani.

Offered Programs by FBS: Chemistry, Physics, Mathematics

3. **FoE&A (Faculty of Engineering & Architecture):** Engineering education in the country has significantly assisted the exploitation of natural resources. In this connection, BUITEMS is committed to provide qualified workforce by continuously producing well-trained engineers with skills required for growing industries. The engineers produced will serve oil and gas sector, mining and mineral industry, dam building, construction, petrochemical based industries, fertilizers plants as well as serving other public and private sector organizations.

Dean of FoE&A: Dr. Ali Nawaz Mengal.

Offered Programs by FoEA: Civil Engineering, Petroleum and Gas Engineering, Mechanical Engineering, Textile Engineering, Chemical Engineering, Mining Engineering, Geological Engineering, Architecture

4. **FLSI (Faculty of Life Sciences & Informatics):** The faculty of Life Sciences at BUITEMS feels pride in supporting efforts towards quality and excellence in education. Keeping this goal in mind, we started our journey in 2003 pioneering at the country level, undergraduate and graduate study programs in Biotechnology & Informatics. Today the faculty of Life Sciences houses three departments offering nine-degree programs. The

study programs in Biotechnology, Microbiology and Environmental Science take care of the needs and problems of the society in its curricula and research. The undergoing projects of DNA forensics and molecular diagnostics laboratories are two of the leading examples. We are known for highly qualified faculty members who are actively contributing both in teaching and research. The faculty has a global network of research collaborations on a range of themes from genetic diseases to biodiversity studies, medicinal plants, etc. We're proud of our inclusive, diverse and multicultural outlook with students and faculty members from all around Pakistan. We are keen to transform into an international outlook in future. Our focus is to help students become positively impactful internationally. For this purpose, we are investing in our human resource, curricula and research. Additionally, we are linking our faculty and students to the relevant industry: increasing relevance and employability of our graduates.

Dean of FLSI: Dr. Nazeer Ahmed.

Offered Programs by FLSI: Biotechnology, Environmental Science, Microbiology

5. **FMS (Faculty of Management Sciences):** The Faculty of Management Sciences offers a variety of programs catered by the three departments of Management Sciences, Economics and Public Administration. The departments offer a variety of programs that enable students to enjoy academic and administrative positions in both public and private organizations. The department of Management Sciences focuses on nurturing and equipping you with the best skills of leadership and Management. Economics on the other hand focuses on upbringing the policymaking abilities in you which will help you in decision making. The public administration department prepares you to understand and perform the duties of public offices. The faculty of management has proved to be inevitable in today's growing markets. The requirement for ambitious graduates is growing and an emerging trend towards industrialization and development has enticed the need for talented and skilled human resource in Pakistan. The faculty seeks to sustain its achievements through work devotion, highest academic performance, commitment, staff recognition, talent nurturing and students potential grooming. The Faculty attracts a capable student body with diverse demographic profile from the remote areas of the country, with priority to the students from Balochistan. The student community from all walks of life enriches the Faculty with lively intellectual environment and makes it the Faculty of choice. The faculty provides a forum for a rich cross-fertilization of ideas and a valuable national networking opportunity. In collaboration with business, industry, government, Universities and the community, the Faculty is to be a catalyst in the process of social change and economic development through creation and dissemination of knowledge of the highest standards in Pakistan and the region.

Dean of FMS: Dr. Syed Munawar Shah.

Offered Programs by FMS: Management Sciences, Economics, Public Administration, Law

6. **FSSH (Faculty of Social Sciences and Humanities):** Faculty of Social Sciences & Humanities (FSSH) offers an array of degree programs under the umbrella of FSSH. Interdisciplinary, multidimensional and holistic education is inevitable in the challenging market of the world. FSSH aims to address this need of the youth of the country by offering graduate and undergraduate degree programs in seven disciplines. Our mission is to provide to the students of various professions and disciplines, sound knowledge of social sciences _ a necessary tool in all applied sciences, engineering and technology, and of arts and humanities, which make them socially responsible citizens with the right qualification as well as inculcate in them an inquisitive mind and the capability to question conventional wisdom.

Dean of FSSH: Dr. Abdul Wadood.

Offered Programs by FSSH: Education, English, Fine Arts, International Relations, Mass Communication, Psychology, Sociology.

Fee Structure Criteria Regular Program:

The fee criteria for the university include several components: an admission fee of Rs. 18,826, a registration fee of Rs. 3,764, a security fee of Rs. 6,695, a tuition fee of Rs. 34,275, an examination fee of Rs. 3,426, and a lab and library fee of Rs. 10,714. The total fee for the first semester is Rs. 77,700, which includes the admission, registration, and security fees.

For the subsequent semesters (2nd to 8th), these additional fees are not applicable, making the total fee per semester Rs. 48,415.

- Fee are payable by semester before the due date.
- Repeat course fee during regular session Lecture/Lab: 3000/1500.
- Repeat course fee during winter/summer session(s) Lecture/Lab: 4000/2000.
- University fee structure are subject to change

Fee Structure for Self Support Programs:

The fee criteria for the university include several components: an admission fee of Rs. 30,000, a registration fee of Rs. 15,000, a security fee of Rs. 7,000, a tuition fee of Rs. 90,500, an examination fee of Rs. 10,000, and a lab and library fee of Rs. 18,000. The total fee for the first semester is Rs. 170,500, which includes the admission, registration, and security fees. For the subsequent semesters (2nd to 8th), these additional fees are not applicable, making the total fee per semester Rs. 118,500.

ACADEMIC CALENDAR

The academic calendar for Spring 2024 includes the following important dates: Classes commence on March 4, 2024, with an enrollment deadline on March 12, 2024, and the fee submission last date on

March 22, 2024. The deadline to drop courses is March 27, 2024. Mid-term exams are scheduled from May 8 to May 14, 2024. The course withdrawal deadline is July 15, 2024, and final exams will be held from July 24 to July 31, 2024. Results will be announced on August 23, 2024.

For Fall 2024, classes begin on August 12, 2024. The fee submission deadline is August 21, 2024, and the enrollment deadline is August 22, 2024. The course drop deadline is September 11, 2024. Mid-term exams will take place from October 8 to October 14, 2024. The course withdrawal deadline is December 2, 2024, and final exams are scheduled from December 10 to December 16, 2024

Offices:

- 1. Directorate of Finance:** The Directorate of Finance started functioning as Finance Section immediately after the establishment of the university in 2002. The Directorate of Finance initially had only six staff members in a single office; however, it has since been growing and expanding its functions. Presently, the affairs of Directorate of Finance are run by six Deputy Directors along-with their support staff under the supervision of Additional Director Finance and Director Finance respectively. The directorate facilitates students and BUITEMS staff, both Faculty & Administrative about visiting faculty payments, Board of Studies, Study Tours, Sports Activities, etc. Besides, students are facilitated and guided in fee related matters, fee refunds and fee clearance matters.
Services of Finance: Management of Accounts and Record Keeping, Revenue/Receipt Management, Payments/Payroll & Recurring Expenditure Management, Liaison w.r.t External Audit Activities, Students Fee, Students Scholarship, Students Fee waivers, In-House Training for Faculty and Staff, Management of Funds, Recurring Budget Management, Management of Grants, Financial Management of Policies, Safeguarding of Assets & Investments
- 2. Controller of Examinations Office:** The office of Controller of Examinations BUITEMS was established with the approval of the university ordinance in 2002. It plays a vital role in the smooth functioning of the university and it is considered the backbone of the university. The Office of the Controller of Examinations is working in compliance with the HEC and other relevant accreditation bodies like PEC, PCatP and NBEAC. The Controller of Examinations Office deals in all matters related to examinations. This office ensures the necessary confidentiality of the record. It also ensures the issues related to examinations as per examination policies & academic rules & regulations. Any kind of ambiguity in this regard is clarified through University Examination Committee and other statutory bodies. You can get Semester result, Convocation form, Certificate form, Degree form, Transcript form, DMC and Verification, Fee structure for examinations related document, Merit Scholarships from <https://www.buitms.edu.pk/Controller-Examinations-Office>.
- 3. Directorate of Information Technology:** We aim to provide brilliance in Information Technology services and solutions which could elevate the vision, mission and goals of BUITEMS. We are also committed to provide swift, efficient and reliable cutting edge Information Technology services and solutions up to the satisfaction of our potential users.

Services : Networks, systems, Website, PBX, Computer labs , Audio Visual Facilities, Video Conferencing, Smart Uni wifi

Computer Laboratories: HBL Computer Lab-1, HBL Computer Lab-2, HBL Computer Lab-3, HBL Computer Lab-4, CAD/CAM Engineering Lab, GIS & Remote Sensing Lab, Advanced Computing Lab, Software Development Lab, CISCO Local Academy, Iqbal Hall Lab, Digital Library, Blue Chip Lab, Lab-I (City Campus), Lab-II (City Campus), Lab-III (City Campus), MS Research Lab

Freezing Semester: Freezing is not allowed in the first semester of a program. A student shall be allowed to apply for freezing of at most two semesters in his / her entire program of study, after the first semester.

Academic Rules: <https://www.buitms.edu.pk/Documents/acadrules/gradRules.pdf>

Change of Program: Change of academic program is generally not encouraged. However, it may be allowed on the recommendation of the Chairpersons concerned and approval of the Dean(s), within the first two weeks of the first semester, subject to the fulfillment of eligibility criterion and availability of the seat. Merit of the student has to be above the merit of the last student admitted into the program to which transfer is desired.

Duration of Program: The duration of BS programs is four years, equally divided into eight semesters. However, the B. Arch program is spread over five years (ten semesters). Each semester is 18 weeks long, 16 weeks for teaching, and two weeks for the conduct of midterm and final examinations. The duration for completion of the MS program is 2 years from the date of enrolment into the MS program.

Limit of courses in a single semester: A student is required to take 15-18 credit hours course work per regular semester. However the Chairperson of the department may allow a maximum of 21 credit hour course work in one semester on the approval of the Dean.

Financial assistance options: The BUITEMS Fee Concession & Scholarship Policy has the following aspects: Merit scholarship (available after the first semester), Work and study program, Fee concession for needy students, Fee concession for siblings, Fee concession for dependants of BUITEMS employees, Fee in installments, USAID need-based scholarship

Probation period: Whenever a student's CGPA falls between 1.0 and 2.0 he / she shall be put on the first probation for the next semester

- If the student fails to raise the CGPA to 2.0 or above, he/ she shall be placed on the probation for the next semester.
- If the student who was earlier on second probation fails to raise CGPA to 2.0 or above, he/she shall be placed on the last probation.
- If the student fails to raise CGPA to 2.0 or above in the last probation, he / she shall be dropped from the university rolls.

For undergraduate and MS programs a minimum of 2.0 and 2.5 CGPA respectively, is required to pass out.

Connect to WIFI: To connect to the BUITEMS Smart University Wi-Fi, follow these steps: Type your CMS ID (e.g., 50999), Insert your password, Use the system certificate option, Enter the domain name (buitms.edu.pk), Select MSCHAPV2 as the authentication method, Press the connect button.