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UAN: 111-717-111 (ext. 216)
www.buitms.edu.pk
admissions.faq@buitms.edu.pk

UNDERGRADUATE PROSPECTUS 2021

FACULTY OF
ENGINEERING &
ARCHITECTURE
BUITEMS

UNDERGRADUATE PROSPECTUS 2021

Quality and Excellence in Education

DISCLAIMER

Every effort has been made to ensure that the information in this Undergraduate Prospectus 2021-22 is correct at the time of printing. The Faculty of Engineering & Architecture BUITEMS , however, reserves the right to make changes wherever and whenever necessary. In the event of inconsistency between the information contained in this prospectus and the BUITEMS's regulations or programs, or where an interpretation of the prospectus is required, the decision of BUITEMS shall be final. The prospectus does not form any part of a contract between any person and the Institute.

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Message by the Vice Chancellor

The technical, social, political and economic developments are reshaping like never before, and this is happening with unprecedented acceleration also. Surely it is technology driven revolution, the very roots of which are embedded in education, information and research. BUITEMS following the suit is endeavoring to prepare students with technical knowledge and is training them to participate and lead the knowledge based societal revolution. The academic programs of the University are based on the philosophy of intellectual excitement and cutting-edge research particularly designed to meet the modern challenges. BUITEMS is a provincial institution but its academic perspectives are global as it is delivering comparable education available only in the best institutions of the world. The degrees awarded by this University are accredited and recognized worldwide. BUITEMS, keeping its vision and mission in sight, has made the difference with respect to curricula, learned faculty and enabling environment for the conduct of education. It is also encouraging that Government of Balochistan in order to develop the Engineering industry, has at the same time realized the importance and need for education and training of personnel in Engineering for the development and exploitation of minerals, coal deposits and energy sources. I am confident that booming trends of engineering education in the country will go a long way in the development and promotion of industry and also for the promotion of our exports with respect to national products, developed in collaboration with industry. Our degree programs are not only fulfilling the provincial requirements in this regard but are also contributing significantly at the national and international levels through the services of our graduates. BUITEMS is carrying out its distinctive role as a leading institution of teaching and learning in the fields of Engineering, Science and Technology, Arts and Basic Sciences and will keep on extending its horizons to include many more programs of studies in times to come. I am confident that our students will find the degree programs offered at BUITEMS compatible and fulfilling their dreams for their future professional achievements.

Ahmed Farooq Bazai (S.I)

BUITEMS has given a new vision and a distinct meaning to education. Its guidelines for academic achievements are comparable to those of the most renowned institutions of the world.

Our Vision

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

The University

Standing as the prestigious and leading university centered in Balochistan influencing the future with academic excellence BUITEMS is defined by its quality and rigour in education and applied research.

BUITEMS has five faculties and each faculty is comprised of many departments. The Faculty of Engineering & Architecture (FoE&A) has eight departments. The University through the offices of the Dean/ HODs, Registrar, Controller of Examinations and the Directorates helps in maintaining a conducive environment for teaching and Learning. All these offices along the faculty & students work as team.

Our Programs

BUITEMS transformative & innovative education system provides a wide range of academic programs spanning comprehensive areas of engineering, sciences and arts. It also provides multi-disciplinary and cross-faculty learning opportunities.
BUITEMS offers a diverse and comprehensive choice of courses in five faculties with a range of undergraduate and graduate programs. We motivate our students to explore their interests, discover their talents and pursue their passions for creating and discovering their own BUITEMS experience.

BUITEMS Structure

BUITEMS quest for academic excellence is based on five fundamental pillars; the students, the faculty, the curriculum, the learning environment and the civil society we serve. We stand committed to follow all statutory requirements in our academic offerings not only in following the standards but also to set new Records of Excellence.
We provide great learning opportunities for our students. We have considerably personalized teaching method for our Students with effective supervisions. As a research-intensive institution with a commitment to provide high- quality education, BUITEMS ensures an academically rigorous and stimulating experience for its students.
Highly-qualified faculty members, equipped labs and well structured program at BUITEMS provide a great learning experience in the undergraduate and graduate degree programs.

The Faculties

- The faculty is responsible to design the curricula.
- Organize lectures, seminars, practical and projects.
- Arrange examinations & mark papers.
- Maintain academic excellence and professionalism
- Provide an environment conducive to learning, teaching, academic inquiry and innovation

What we are looking for

We are looking for individuals who are willing to contribute in the field of science, engineering and arts.
We strongly encourage all applicants to choose fields of study which truly interest them.
We are looking for students who:

- have a strong academic potential
- have a strong interest in the fields they are applying for
- will benefit from and grow in the BUITEMS environment

Academic Potential

We are looking for students with a compelling academic background and potential. This should be reflected in the past qualifications and the entry test.
BUITEMS expects its students to excel further in terms of academic performance. Therefore, the student has to aim at excellent cumulative grade point average (CGPA) throughout the degree program.

Interest in your field of study

At BUITEMS, we are looking for students who are truly excited about their field of study they have chosen and want to make that field as their career path.
We firmly believe that the academic excellence can only be achieved when the student is motivated by his or her field of study; we believe that learning comes through stimulation and interest. Therefore, we strongly advise you to thinkcarefully when you choose your field of study.

Self-motivation

We are looking for students who are self-motivated and who can think critically.
We are looking for students who can understand the model of the higherlearning where a student is required to study and work independently in addition to classroom learning. If you believe you can excel in higher learning you need to be self-motivated, self-disciplined and have a desire to learn.

Four simple steps

You will be studying a particular field (also called major) for several years. Therefore, you should make sure that you choose a field that interests and excites you

1

Fill out the admission form available by visiting *admissions.buitms.edu.pk* or the admissions office at campus. Submit the form online or at the admissions office along with the requisite documents and bank receipt of admission processing fee.

2

Eligible students are invited to the NTS admissions test. The test is conducted on the NTS standard test for a given major.

3

Admission will be offered based on the merit calculated from the marks scored in metric, intermediate and the NTS admission test.

4

Calculating the merit

Merit is based on the cumulative of 20% for the marks scored in matriculation examination, 50% for the marks scored in intermediate examination and 30% for the marks scored in the NTS admissions test.

How do I apply?

You can apply through online BUITEMS admissions system. Download and print the application form. Attach all relevant documents and the receipt of application processing fee with the application. Send the complete application to the BUITEMS admissions office, make sure that the hard copy of your application reaches the admission office before the closing date.

What are the entry requirements?

Entry requirements for undergraduate and graduate programs are available in the Disciplines and Departments section of this prospectus.

Supporting documents

- 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

What are the payment options?

Online application processing fee is Rs.2500 for national applicants and US $75 for foreign applicants. Whereas fee for manual application processing is Rs. 2500. Please note that these amounts are non-refundable and must be deposited on or before the last date of the application submission.

You can avail one of the following options to deposit the application processing fee:

- Bank draft / pay order drawn in favor of Registrar BUITEMS, Quetta.
- Cash deposited in Account Number: 23587000000201, Habib Bank Ltd, BUITEMS University branch, Quetta, Pakistan.

What next?

Applicants will be called to take the admission test. The admit card for the test will be issued. In case of non-receipt of admit card, the admission office may be contacted. Please note that only candidates with complete applications will be notified. Candidate without the admit card will not be allowed to take the test/interview.

Where to send the documents?

Post your supporting documents and hardcopy of the Admission Form along with bank draft / pay order (admission processing fee) on the following address:

Admissions Office, BUITEMS
Takatu Campus, Airport Road, Baleli. Quetta.
UAN: +92 81 111-717-111
Other lines: +92 81 2880560 / 2880136 Extensions: 163, 216, 217

INTERNATIONAL STUDENT

We, at BUITEMS, believe that diversity brings innovation. We highly encourage international students to apply for admission at BUITEMS. Many international students from different parts of the world are enrolled in various study programs at BUITEMS. The eligibility requirements for international applicants are the same as for the applicants from within Pakistan. An applicant for transfer from a local or foreign institution is required to have passed the BUITEMS admission test by securing equal or more marks than the minimum merit of the program in which the student seeks admission. However, acceptance of request for transfer will depend on availability of seats, and the quality of academic work already done by the applicant.

As a BUITEMS student, you will be part of one of the nation's largest engineering, sciences and art schools. BUITEMS is a community known for its excellence- a student body of more than 10,000 and faculty from the world's leading institutions. You are advised to look up for full details on individual field of study, credit hours and research aspects so as to get the maximum out of your chosen field of study.

Frequently Asked Questions

What is the duration of a program at BUITEMS?

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.

How can I change the program of study at BUITEMS?

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.

Can I freeze a 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.

What is the 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.

What is a 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.

What are the different financial assistance options at BUITEMS?

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

For more information related to financial assistance you can contact the university advancement and financial assistance office.

Student Life

Life at BUITEMS is a work hard and have fun culture.

As members of the BUITEMS family, the student, faculty and staff enjoy an exciting, vibrant and colourful life at BUITEMS. From high class academic lectures and laboratory experiments, to exciting sports, art events and service projects, there are always great things happening on campus.

Events and fests

From the one-of-a-kind cultural festivals on campus to accomplished student performances in theatre, arts and culture, the student affairs plays a leading role in the life at BUITEMS. Student affairs comprises of more than twenty student clubs and organizations that continuously provide fuel for constructive social life at BUITEMS.

The Olympiad

The annual Olympiad marks the culmination of athletics and sports at BUITEMS. The Olympiad is a week of non-stop sports and athletics competitions in more than fifteen sports categories with over one thousand athletes participating from among the staff and students.

Community service

BUITEMS family members have a very special motivation for social service and social contribution for the society. The students and staff are contributing in the elementary education for child labor under the Free Citizen Schools. The organization has been formed by the staff and students of BUITEMS. Through the organization, the students BUITEMS have been directly educating young children who are laboring to meet the finances of their families.

Continuous Buzz

BUITEMS enhances the ability of students and staff to reach their fullest potential through diverse academic, personal, and professional development experiences. To achieve this, we foster a welcoming, stimulating campus life environment where students and staff develop intellectually, experience meaningful co-curricular opportunities, evidence civic responsibility, model intercultural and interpersonal understanding, and promote health and well-being. BUITEMS family is prepared to freely pursue life-long personal and professional fulfillment, engagement, and stewardship of ever-changing local

Sports

Whether you're a world-class athlete or new to exercise, we have the facilities and expertise to keep you motivated. From the fun to the competition side of the sport, we love it all at BUITEMS. We have more than 3,000 members of our sports facilities and approximately 1,000 students participate in different sports tournaments inside and outside the province. With so many activities to try out and plenty of post-exertion socializing opportunities available, you can get fit and have fun at the same time. If you are a talented athlete in training, we offer a range of services to support you as well as sports bursaries and funds for team participations in the inter-university championships and tournaments.

The University also has:

- Multi-purpose sports complex
- High class gym (separate for females)
- Swimming Pool
- Bowling Club
- PCB standard cricket stadium
- High class football ground
- Basketball courts

Facilities

BUITEMS boasts in providing one of the best sports facilities in the country. Sports and athletics form one of the core features of life at BUITEMS. The newly constructed sports complex is a jewel of recreation facilities at BUITEMS.

The Sports Complex provides venues and gear for a range of sports including basketball, handball, badminton, table tennis and volleyball. Fully equipped gym and fitness center is part of the Sports Complex that houses the finest fitness equipments to keep you agile and healthy. The world class cricket stadium at BUITEMS is commendable facility for cricket lovers. The stadium is operated with the support of the Pakistan Cricket Board (PCB) and regular regional tournaments are held at the stadium.

The football ground at BUITEMS is no less treat for football fans and players. The lush green ground remains one of the most busy sporting facilities on campus around the year. In addition, a number of separate facilities for basketball and other sports are located in different parts of the campus. Get registered and enjoy the excellent facilities to cope with your tedious work and study routine.

Facilities and Resources

Libraries

With over 40,000+ books, the BUITEMS central library continues to add to student's passion for reading. Both the campuses house one central library each with a number of small departmental libraries. The libraries also provide our students with free access to a world of books through digital library access. The library experience is augmented through a state-of-the-art automated library management system that assists in searching and locating books in the library anywhere from the campus.
The digital library service on the other hand places treasure of research journals, and millions of other publications on students' fingertips

We are committed to connecting you with the right resources, from dedicated teaching staff to a world class library and a range of co-curricular facilities. At BUITEMS, we spend millions on our equipment and academic support services to create a quality environment where you feel stimulated

Art galleries

Thanks to the Faculty of Arts and Basic sciences, the campus has a number of art galleries showcasing fascinating collection of modern art ranging from artifacts, paintings, and sculptures made by the students and faculty of FABS. Even if not directly related to your course, students of FICT spend time and receive their share learning and knowing arts at the galleries.

Research center and senior design labs

BUITEMS is committed to provide a conducive environment to the entire learning experience of students. The research center located in the Sir Syed block is a cutting-edge facility to serve that commitment. The research center has dedicated research desks for graduate students.
The research desks are equipped with high performance computiers. To cater the needs of undergraduate students working on final year projects, senior design labs are provided where student groups are assigned a research space with necessary resources depending on the student discipline.

NIC Quetta

National Incubation Center Quetta is committed to support the youth of Balochistan to develop sustainable and impactful startup ventures. In order to create jobs, revitalize community, commercialize new technology and strengthen the local economy.

The city is famous for its amazing weather and beautiful fruit orchards in and around. Quetta is surrounded by small valleys and hills. Quetta is situated at an average elevation of 1,680 meters above sea level, making it Pakistan's only high-altitude major city. Quetta has a semi-arid climate with a significant variation between summer and winter temperatures. Located in Pakistan's most attractive destination, BUITEMS has loads to offer you as a student.

Just 130 km away from the Quetta city, Ziarat is the popular tourist destination for tourists. It is famous for being the second largest Juniper forest in the world. Ziarat is home to the famous Ziarat residency where founder of nation Quaid e Azam Mohammad Ali Jinnah lived and spent his last days of life. residency is made of wood and stone and has a beautiful architecture, representing the English architecture of 19th century.

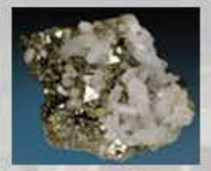
Attractions in & outside the city

Hanna Lake, which nestles in the hills ten kilometres east of the city, is a turquoise body of water that contrasts markedly with the bare surrounding hills. It is an attractive destination with facilities for boat hire. At one end of the Hanna Lake, there is an irrigation dam also which catches the eyes of the visitors at a first glance. A lakeside restaurant is crowded with hikers and campers during holiday periods.

The Hazarganji Chiltan National Park, 20 km south-west of Quetta, is a protected park area. The area is mountainous with precipitous slopes divided by ravines. Facilities include a museum, picnic spots and accommodation in rest houses.

Climate

Unlike more easterly parts of Pakistan, Quetta does not have a monsoon season of heavy rainfall. In the winter snow is the principal form of precipitation, and this falls mostly in the months of December, January and February. Winter starts in late November and ends in late March, with average temperatures near 4-5°C. Spring starts in early April and ends in late May and summer starts in late May and goes on until early September with average temperatures ranging from 24-26°C. Autumn starts in late September and continues until mid-November with average temperatures in the 12-18°C range.



Kharkhasa is located 10 km west of Quetta in a 16 km long narrow valley that contains a variety of flora and fauna species. The Chiltan Hill Viewpoint in the park provides a panoramic view of the city. A visit to the nearby cities of Kirani and Harnai are popular picturesque places for tourists traveling to and from Quetta.

The Quetta Geological Museum, located on Sariab Road has a collection of rocks and fossils. The Command and Staff College Museum is a museum dedicated to British military history. It is housed in the former bungalow of Field Marshal Bernard Montgomery. The Quetta Archaeological Museum, located on Wafa Road has a collection of rare antique guns, swords, manuscripts and a display of stone age tools, prehistoric pottery and articles found in Mehrgarh.

Wali Tangi Dam is a small dam in the Urak Valley situated approximately 20 km east of Quetta and attracts local tourists in summer.
Wali Tangi Dam was constructed by the Pakistan Army in the early 1960s with the purpose of supplying clean water to the Urak Valley and Quetta for irrigation and human consumption. The dam stores and utilizes fresh water from melting snows in the surrounding Zarghoon Hills, which are part of the Sulaiman Range.

Pir Ghaib is a waterfall and picnic spot located 70 km from the Quetta City in historic Bolan valley. There are cascade waterfalls and two separate waterfalls flow into a larger clear and blue pool of cool water among the shady palm trees. The waterfall is known to be flowing where the surrounding is barren.

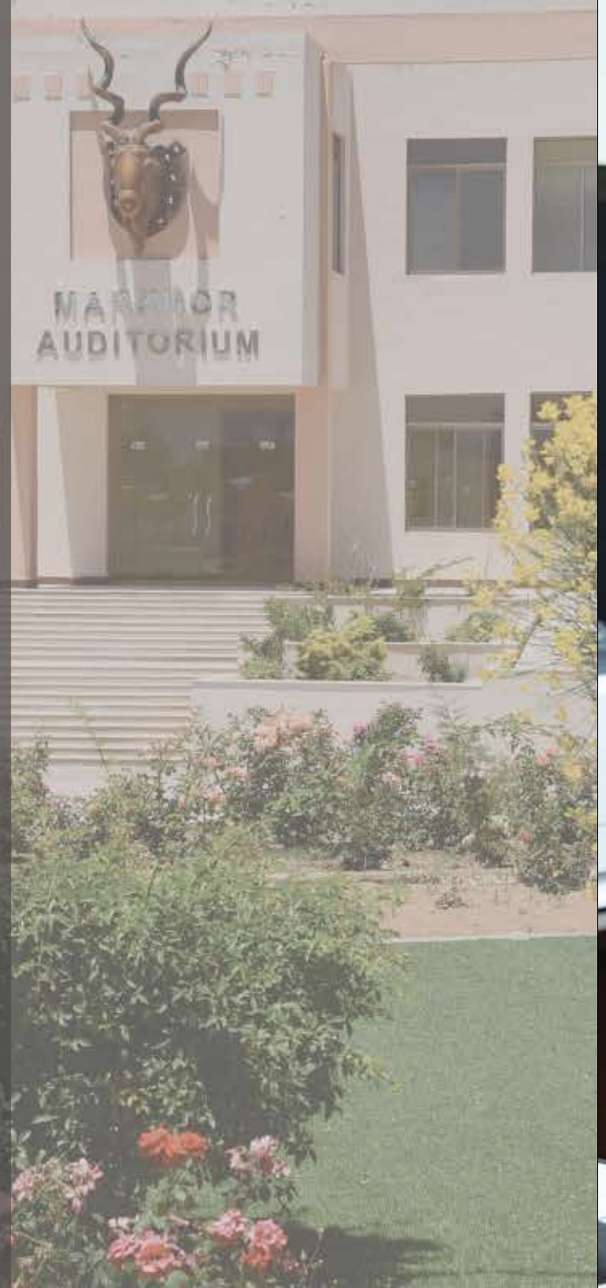
Faculty of Engineering & Architecture

The Engineering education in the country has significantly assisted the exploitation of natural resources .All we need is the excellence in Engineering education 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.

Faculty of Engineering and Architecture was established in 2004 and it is located at BUITEMS Takatu campus named after the Takatu mountain, Quetta.

The faculty initially had three departments: Petroleum and Gas Engineering, Textile Engineering and Chemical Engineering but, since 2007, the Faculty has established six more departments namely, Civil Engineering, Geological Engineering, Mechanical Engineering, and Architecture.

These Departments offering BS, MS and PhD degree programs. All BS Engineering and Architecture program are accredited by Pakistan Engineering Council and Pakistan Council for Architecture and Town Planning, respectively.



Dean's Message

The Faculty of Engineering and Architecture is deeply committed to its students and pledged to excellence in education. It strives to provide a challenging education environment and offers curriculum of studies that is a thorough blend of theoretical knowledge and latest research and practical experience.

The Faculty of Engineering and Architecture owns a creative environment for undergraduate and postgraduate students and offers a dynamic facility to those interested in research. The ambience here therefore makes our students perform well at their fields of interest and encourages them to produce results at their best efficiency and with innovation. Our aim is not only to make a real difference by contributing in the educational and intellectual environment of this country but also to bring about changes in the regionas an International University & as a faculty.

As Dean, I therefore take this opportunity to welcome our vibrant students to become partners in this journey of innovation and to work with dynamism towards the attainment of your chosen degrees. I hope you will find this journey leading towards a promising and successful future.

Dr. Syed Kamran Sami

Outcome Based Education

Washington Accord

Outcome-Based Education (OBE) represents a clearly focused and powerful way of organizing and operating instructional systems. OBE fosters a better integration between education at school, workplace and higher education level. OBE helps learners to accept responsibility for learning, as they are now at the centre of the learning process. Recognition of prior learning prevents the duplication and repetition of previous learning situations.

It is an educational theory that bases each part of an educational system around goals (outcomes). By the end of the educational experience, each student should have achieved the goal. There is no single specified style of teaching or assessment in OBE; instead, classes, opportunities, and assessments should all help students achieve the specified outcomes.

Established in 1989, the Washington accord is an international accreditation covenant for the professional engineering academic undergraduate programs. The initial signatories were Australia, Canada, the Republic of Ireland, Hong Kong, Japan, New Zealand, Singapore, South Africa, South Korea, Taiwan, Malaysia, India, Sri Lanka, the United Kingdom and the United States. It recognizes that there is significant equivalency of the engineering programs accredited by those signatories and that graduates of accredited programs in any of the signatory countries are acknowledged by the other signatory countries as having met the academic requirements for entry in to the practice of engineering. The admission of new signatories to this accord require the approval of at least two-thirds of the existing signatories and then preceded by a prescribed period of provisional status during which the accreditation criteria and procedures established by the applicant, and the way in which these procedures and criteria are implemented, will be subject to a comprehensive examination.

PEC is a provisional signatory to Washington Accord. To be able to get the member status, PEC is implementing OBE in all engineering degree awarding institutes. BUITEMS is also making every effort to take the PEC accreditation for all engineering programs based on OBE manual.

OBE emphasizes on the student learning by

- Utilizing student learning outcomes to make explicit what a student is expected to be able to know, comprehend or do.
- Providing learning positive activities that would help students to attain those course learning outcomes.
- Assessing the extent to which the student meets these outcomes through the use of explicit assessment criteria.

The key features of OBE are as follows

- It has program objectives and outcomes, Course Learning Outcomes (CLO's) and performance indicators (PI's).
- It is objective and outcome driven, in which every stated objective and outcome could be assessed and evaluated.
- It is centered around requirement of students and key stakeholders.
- Since CLO's are intentional, so they must be assessed using appropriate PI's.
- Program educational objectives (PEO) address the graduates attainment within 3-5 years after their graduation.
- PEO's consist of abilities to be acquired by students before they graduate, are formulated based on the program objectives.
- PEO's address knowledge , Skills and Attitudes to be acquired by the students.
- PLO's are mapped with PEO's of the engineering program and CLO's of each course are specifically mapped with PLO's.

Program Learning Outcomes (PLO's) of all Undergraduate Engineering Programs

Program learning outcomes are the narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills and attitude that the students acquire while progressing through the program. The program must demonstrate that by the time of graduation the students have attained a certain set of knowledge, skills and behavioral traits, at least to some acceptable minimum level. Specifically, it is to be demonstrated that the students have acquired the following graduate attributes:

1. Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

2. Problem Analysis: An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

3. Design/Development of Solutions: An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

4. Investigation: An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.

5. Modern Tool Usage: An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.

6. The Engineer and Society: An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

7. Environment and Sustainability: An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

9. Individual and Team Work: An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.

10. Communication: An ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project Management: An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

12. Lifelong Learning: An ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

Architecture

Pakistan with 6th largest population of the world, Urbanization and the urban issues are becoming the problem of the country.

There is need to deal with such issues by providing innovative solutions to create a better living (built and physical) environment.

Balochistan is the least developed province of the country, there is a strong need of architects, designers and planners who can contribute not only to provide better living facilities but also enhance the overall built environment with sustainable design and practices.

Architects work in the construction industry designing new buildings and the spaces in and around them. They also help restore and conserve old buildings, and develop new ways of using existing buildings. They are involved in construction projects from the earliest stages to completion.

The Department

The department of Architecture at BUITEMS was founded in September 2009, as an undergraduate program with just four faculty members and forty students. Today, the Architecture Department has nineteen faculty members; most of them are foreign qualified from best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering 5 years Bachelors in Architecture program.

Program Educational Objectives (PEO's)

1. To introduce students to architectural fundamentals, spatial strategies and aspects of natural environment, climatology, heritage conservation and an understanding of structures
2. To practice research and teach architectural discipline to make sure that our students are provided with a theoretical and practical foundation in the principal areas of architecture and urbanism
3. To provide students with a fundamental understanding of elements and principles of design
4. To train students to deal with integrated design, construction and operation of an environment that is both built and un-built
5. To innovate in the context of local and regional architecture, apparatus and innovative strategies

Vision

Our vision is to be among the best architecture schools, where students and teachers find their identity as professional architects of all times and situations, where they explore, discover and build culture artistically with creativity and difference.

Mission

At department of architecture we are committed to train students through in depth study and research in social, cultural, political and historic context; and to provide a comprehensive architectural design solution for the region in general and for Baluchistan in particular with emphasis on its spatial needs.

SCHEME OF STUDY

Semester 1

Basic Design-I
History of Architecture-I
Pakistan Studies
Islamic Studies/Ethics
Functional English
Visual Communication Skills-I
Mathematics for Architects

Semester 2

Basic Design-II
History of Architecture-II
Materials & Construction-I
Visual Communication Skills-II
Physical and Envr. Studies-I
Verbal Communication Skills
Surveying & Leveling

Semester 3

Architectural Design-I
History of Architecture-III
Visual Communication Skills III
Material & Construction-II
Physical & Environmental Studies-II
Structure for Architects-I

Semester 4

Architectural Design-II
History of Architecture-IV
Computer Apl. in Architecture-I
Material & Construction-III
Structure for Architects-II
Building Services & Systems-I

Semester 5

Architectural Design-III
Computer Apl. in Architecture-II
Material & Construction-IV
Theory of Architecture-I
Building Services & Systems-II
Interior Design

Semester 6

Architectural Design-IV
Building Services & System-III
Theory of Architecture-II
Architecture in Pakistan
Landscape Architecture
Heritage Conservation

Semester 7

Architectural Design-V
Working Drawings & Details-I
Urban Planning & Design-I
Technical Report Writing
GIS for Architects

Semester 8

Architectural Design-VI
Working Drawings & Details-II
Urban Planning & Design -II
Building Economics
Architectural Research Methods

Semester 9

Thesis Design-I
Professional Practice
Quantity Surveying & Estimation
Project Planning & Management

Semester 10

Thesis Design-II
Advanced Arch. Presn. Techniques

168 Credit Hours

48 Courses

Prerequisites

F.Sc. (Pre Engg) with Mathematics & Physics from any recognized board or equivalent with at least 50% marks.
Diploma in the same field, securing at least 60% marks.
Qualifying the admission test.
Aptitude test (Creative thinking, Writing Skills, Free-hand Drawing followed by an interview

MAIN TEAM

Ar. Palwasha Amanullah
Assistant Professor
CHAIRPERSON
Department of Architecture
palwasha.amanullah@buitms.edu.pk

Palwasha Amanullah is an architect and researcher on the environment of urban cities in Pakistan. She joined BUITEMS in 2013 as Lecturer and now also serving as Chairperson, Department of Architecture at BUITEMS, Quetta. Ms. Palwasha has a Masters in Research Architecture from Goldsmiths College, University of London. After teaching for several years as an Assistant Professor in the Department of Architecture, she is now completing her second Masters in Environment Management and Policy from BUITEMS. She earned her under graduate degree in architecture from the National College of Arts in Lahore. Since 2011, she has published several articles on historic architectural form, daily life of women in the ancient world and pivotal events in religious history. Ms. Palwasha has also secured nationally and internationally, scholarships and research grants for the compilation of her academic research studies. She has presented research papers and art work in conferences and exhibitions for local and international audience.

Dr. Waqas Ahmed Mahar
Assistant Professor
waqas.ahmed@buitms.edu.pk
B. Architecture MUET Jamshoro
M.Sc Planning-Housing UTM Malaysia
Joined BUITEMS in 2013

Dr. Sohrab Ahmed Marri
Assistant Professor
sohrab.ahmed@buitms.edu.pk
B. Architecture MUET Jamshoro
MS Architecture PT Italy
Joined BUITEMS in 2013

Ar. Muhammad Sohail
Assistant Professor
muhammad.sohail@buitms.edu.pk
B. Architecture NEDUET Karachi
Joined BUITEMS in 2009

Ar. Azra Alvi
Assistant Professor
azra.alvi@buitms.edu.pk
B. Architecture NEDUET Karachi
Joined BUITEMS in 2009

Ar. Ariana Bazai
Assistant Professor
ariana.bazai@buitms.edu.pk
B. Architecture Indus Valley SAA Karachi
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2009

Ar. Umer Ahmed
Assisstant Professor
umer.ahmed@buitms.edu.pk
B. Architecture NCA Rawalpindi Campus
Joined BUITEMS in 2018

Ar. Mamoon ur Rashid
Assistant Professor
mamoon.rashid@buitms.edu.pk
B. Architecture DUET Karachi
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2010

Ar. Jahangeer Khan
Lecturer
jahangir.khan@buitms.edu.pk
B. Architecture BUITEMS Quetta
Joined BUITEMS in 2014

Ar. Jalal Faisal
Assistant Professor
jalal.faisal@buitms.edu.pk
B. Architecture MUET Jamshoro
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2011

Ar. Naveed Ur Rehman Anwar
Lecturer
naveed.urrehman@buitms.edu.pk
B. Architecture UET Peshawar
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2014

Ar. Tahira Shaukat
Assistant Professor
tahira.shaukat@buitms.edu.pk
B. Architecture DUET Karachi
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2011

Ar. Adeel Zahoor
Lecturer
adeel.zahoor@buitms.edu.pk
B. Architecture BUITEMS Quetta
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2015

MAIN TEAM

Ar. Gullaly Javed
Lecturer
gullalay.javed@buitms.edu.pk
B. Architecture UET Peshawar
Joined BUITEMS in 2012

Ar. Maska Khan
Lecturer
maska.khan@buitms.edu.pk
B. Architecture BUITEMS Quetta
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2018

Ar. Sabeen Mehmood Durrani
Lecturer
sabeen.mehmood@buitms.edu.pk
B. Architecture NCA Lahore
Joined BUITEMS in 2015

Ar. Babar Khan
Lecturer (On study leave)
babar.khan@buitms.edu.pk
B. Architecture BUITEMS Quetta
Joined BUITEMS in 2018

Ar. Asma Batool
Lecturer
asma.batool@buitms.edu.pk
B. Architecture BUITEMS Quetta
Joined BUITEMS in 2015

Ar. Syed Abdullah Sami
Lecturer
syed.sami@buitms.edu.pk
B. Architecture BUITEMS Quetta
Joined BUITEMS in 2018

Ar. Urooj Fatima Nagi
Lecturer
urooj.fatima@buitms.edu.pk
B. Architecture BUITEMS Quetta
Joined BUITEMS in 2018

Ar. Ali Gul Khan
Studios Incharge
ali.gul@buitms.edu.pk
B. Architecture BUITEMS Quetta
M. Architecture UET Lahore
Joined BUITEMS in 2019

Ar. Shehroze Shah
Studios Incharge
shehroze.shah@buitms.edu.pk
B. Architecture BUITEMS Quetta
M. Urban and Regional Planning NUST Islamabad
Joined BUITEMS in 2019

Chemical Engineering

With the great expansion of scientific knowledge, the basis of applying science, particularly chemistry, to develop technology has increased tremendously. This has lead to the development of the profession of Chemical Engineering. This field is concerned with the designing, supervision, construction, installation and operation of plants and equipment for manufacturing chemical products and developing new methods of production.

This branch of engineering is a varied field, covering areas from biotechnology and nanotechnology to mineral processing. It covers various fields of chemical technology in mineral based industries, petrochemical plants, pharmaceuticals, synthetic fibres, petroleum refining plants etc. Chemical engineers are responsible for the manufacture of fertilizers; plastic, glass and petroleum just to mention a few.

The Department

The department of Chemical Engineering at BUITEMS was founded in 2005, as an undergraduate program with just four faculty members and fifteen students. Today, the Chemical Engineering Department has twenty-one faculty members; most of them are foreign qualified from best universities of the world. Department has various state of the art laboratories, where students and faculty are engaged in cutting edge research in the field of Nanotechnology, Algal cultivation, Biomass and bioenergy, Waste management for recovery of valuable products, Wastewater treatment and Polymer composites. Currently the Department is offering BS and MS program in Chemical Engineering.

Program Educational Objectives (PEO's)

1. Professional competency in chemical engineering to address the needs of the chemical and allied industries, research and development sector.
2. Contribute to the solution of industrial problems, techno-logical and societal issues.
3. Pursue professional development and technical achieve-ment through continuing education.

Vision

To be among the leading Chemical Engineering department of the country with programs providing quality graduates for the chemical and allied industry with focus on the research and development..

Mission

The Department of Chemical Engineering is committed to establish conducive environment for the professional education and research in the field of Chemical Engineering addressing the needs of the country and region..

SCHEME OF STUDY

Semester 1

Engineering Drawing
Islamic Studies/Ethics
Pakistan Studies
Introduction to Computers
Calculus & Analytical Geometry
Organic and Inorganic Chemistry
Introduction to Chemical Engg

Semester 2

Applied Physics
Workshop Practices
Computer Aided Engg Drawing
Reading and Writing Skills
Physical and Analytical Chemistry
Chemical Process Calculations-I
Linear Algebra & Differential Eq.

Semester 3

Particle Technology
Fluid Mechanics-I
Programming Fundamentals
Electrical Technology and Electronics
Chemical Engg Thermodynamics-I

Semester 4

Chemical Process Calculations -II
Chemical Process Technology
Applied Maths in Chemical Engg
Chemical Engg Thermodynamics-II
Communication & Presentation Skills

Semester 5

Separation Processes
Heat Transfer
Engineering Mechanics
Fluid Mechanics-II
Probability and Statistics
Numerical Analysis & Software Apl.

Semester 6

Fuels and Energy
Engineering Materials
Engineering Economics
Technical Report Writing
Chemical Reaction Engineering
Simultaneous Heat & Mass Transfer

Semester 7

Chemical Plant Design
Transport Phenomena
Instrumentation & Process Control
Logical and Critical Thinking
Chemical Process Design & SIM
Project-I

Semester 8

Industrial Management
Entrepreneurship
Maintenance Engg & Risk Management
Elective-I
Elective-II
Project-II

136 Credit Hours

48 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley ato Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

MAIN TEAM

Dr. Muhammad Amin
Assistant Professor
CHAIRMAN
Department of Chemical Engg.
muhammad.amin@buitms.edu.pk

Engr. Dr. Amin did his Ph.D. in Chemical Engineering from Prince of Songkla University Thailand in 2019 and Master's in Chemical Engineering from University of Moratuwa, Sri Lanka in 2015. He did his Bachelors' of Science in Chemical Engineering from BUITEMS in 2010. Dr. Muhammad Amin is serving BUITEMS since 2013. He is the founder of Pakistan Institute of Chemical Engineers (PIChE) BUITEMS Chapter. He has multi-disciplinary experience in education, administration, industry, installation and commissioning of laboratory units & research. His research interests are renewable energy, energy efficiency, heat transfer; transport phenomena, chemical plant design and simulation.

Dr. Muhammad Najam Khan
Associate Professor/ GS Coordinator FoE&A
najam.khan@buitms.edu.pk
B.E Chemical Engineering DCET (DUET) Karachi
MS Chemical Engineering University of Adelaide, Australia
PhD Chemical Engineering AIT Bangkok, Thailand
Joined BUITEMS in 2006

Dr. Faisal Mushtaq
Associate Professor
faisal.mushtaq@buitms.edu.pk
B.E Chemical Engineering DCET (DUET) Karachi
M.E Environmental Engineering NEDUET Karachi
PhD Chemical Engineering UTM Malaysia
Joined BUITEMS in 2006

Dr. Ghullam Ullah Kakar
Assistant Professor
ghulamullah@buitms.edu.pk
B.E Chemical Engineering DCET (DUET) Karachi
M.E Chemical Engineering University Kegangsaan Malaysia
PhD Chemical Engineering University of Malaya Malaysia
Joined BUITEMS in 2006

Dr. Asadullah Baloch
Assistant Professor
asad1562000@yahoo.com
B.Sc Chemical Engineering University of Punjab Lahore
MS Sustainable Process Development UM Srilanka
PhD Chemical Engineering PSA Thailand
Joined BUITEMS in 2007

Dr. Syed Haseeb Sultan
Assistant Professor
haseeb.sultan@buitms.edu.pk
B.Sc Chemical Engineering University of Punjab Lahore
MS Chemical Engineering University of Gujrat, Gujrat
PhD Environmental Mgmt Science PSA Thailand
Joined BUITEMS in 2007

Engr. Awais Sattar Ghouri
Assistant Professor
awais.sattar@buitms.edu.pk
B.Sc Chemical Engineering University of Punjab Lahore
MS Chemical Engineering University of Punjab Lahore
Joined BUITEMS in 2012

Engr. Mohammad Siddique
Assistant Professor (On study leave)
mohammad.siddique@buitms.edu.pk
B.E Chemical Engineering DCET (DUET) Karachi
M.E Chemcial Engineering MUET Jamshoro
Joined BUITEMS in 2007

Engr. Azmat Ali Khan
Assistant Professor (On study leave)
azmat.ali@buitms.edu.pk
B.Sc Chemical Engineering UET Peshawar
MS Petroleum Engineering PT Italy
Joined BUITEMS in 2015

Dr. Abdul Qadeer Dayo
Assistant Professor
abdul.qadeer@buitms.edu.pk
B.E Chemical Engineering MUET Jamshoro
M.E Chemical Engineering MUET Jamshoro
PhD Material Science & Engineering HEU China
Joined BUITEMS in 2009

Engr. Mustafa Kamal
Assistant Professor
mustafa.kamal@buitms.edu.pk
B.Sc Chemical Engineering UET Peshawar
MS Chemical Engineering OV GU Germany
Joined BUITEMS in 2016

Engr. Zahid Naeem Qaisrani
Assistant Professor
zahid.naeem@buitms.edu.pk
BS Chemcial Engineering BUITEMS Quetta
MS Water Resource Engineering UTP Brunei Darussalam
Joined BUITEMS in 2012

Engr. Imran Khan
Lecturer/ CMS Focal person
imran.khan3@buitms.edu.pk
B.Sc Chemical Engineering Univ. of Punjab Lahore
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2014

MAIN TEAM

Engr. Tufail Mustafa
Lecturer (On study leave)
tufail.mustafa@buitms.edu.pk
BS Chemical Engineering BUITEMS Quetta
MS Chemical Engineering MUET Jamshoro
Joined BUITEMS in 2015

Engr. Hafiz Muhammad Babar Munir
Lecturer (On study leave)
muhammad.babar@buitms.edu.pk
B.Sc Chemical Engineering BZU Multan
M.Phil Chemical Engineering UET Lahore
Joined BUITEMS in 2016

Engr. Muhammad Shahid
Lecturer
muhammad.shahid3@buitms.edu.pk
B.Sc Chemical Engineering NFC IET Multan
MS Petroleum Engineering Politecnico Di Torino Itlay
Joined BUITEMS in 2015

Engr. Iqra Anjum
Lecturer
iqra.anjum@buitms.edu.pk
BS Chemical Engineering BUITEMS Quetta
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Nawab Zada
Lecturer
engrkhan.nawab@buitms.edu.pk
BS Chemical Engineering BUITEMS Quetta
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Saadat Ullah Khan Suri
Lecturer (On study leave)
saadatullah.khan@buitms.edu.pk
B.Sc Chemical Engineering NFC IET Multan
MS Chemical Engineering Univ. of Punjab Lahore
Joined BUITEMS in 2016

Engr. Abeera Malik
Lecturer (On study leave)
abeera.malik@buitms.edu.pk
BS Chemical Engineering BUITEMS Quetta
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Muhammad Farooq Sajjad
Lab Engineer
mohammad.farooq@buitms.edu.pk
B.Sc Chemical Engineering UET Lahore
MS Chemical Engineering UET Lahore
Joined BUITEMS in 2017

Engr. Gohram Khan
Lab Engineer
gohrambaloch30@gmail.com
B.Sc Chemical Engineering UET Lahore
Joined BUITEMS in 2019

Civil Engineering

Civil engineering is a professional engineering discipline that deals with the planning, design, budgeting, surveying, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canals, dams, airports, sewerage systems, pipelines, structural components of buildings, and railways.

Civil engineering is traditionally broken into a number of sub-disciplines. It is one of the oldest branches of engineering, dating back to when people first started living in permanent settlements and began shaping their environments to suit their needs.

Engineers are employed by a wide range of companies, from small startup businesses focused on a new invention idea to large-scale companies that work on immense contracts.

The Department

The Department of Civil Engineering was established in 2008 at BUITEMS under the umbrella of Faculty of Engineering and started the program as the Bachelors of Science in Civil Engineering with the intake of 100 students at Takatu Campus, Quetta with the high spirit and hope to produce quality civil engineers. At current, the Department produces highly specialized and professional engineers which serve in the field as well as in the academia at all levels. The department is continuing its postgraduate program Masters of Science in Civil Engineering since 2015. The courses are aimed at bringing the students abreast with the most recent developments in their fields of specialization.

Program Educational Objectives (PEO's) BS-CVE

1. Graduates will have the essential knowledge and possess adequate civil engineering skills.
2. Graduates will be able to establish/build themselves as civil engineering professionals and develop expertise through lifelong learning.
3. Graduates will be able to pursue research and higher studies at prestigious universities.
4. Graduates will be able to work effectively as responsible professionals of high ethical values independently or in teams.

Vision

To make the department a Centre of Excellence in education and research on Structure, environment and highway through ideas and expertise for the long term competitiveness of the entire Civil Engineering field of Pakistan.

Mission

To produce highly competent professionals of high ethical values, enabling them for executive positions in civil engineering, higher studies in prestigious universities, life-long learning, and societal leadership. Also, to provide a dynamic learning environment that emphasizes open-ended design, problem-solving skills, teamwork, communication, promote cutting edge research and leadership skills.

SCHEME OF STUDY

Semester 1

- Engineering Materials
- Engineering Drawing
- Reading & Writing Skills
- Applied Calculus
- Pakistan Studies
- Islamic Studies /Ethics

Semester 2

- Engineering Surveying-I
- Engineering Geology
- Engineering Mechanics
- Differential Equations
- Basic Electro-Mechanical Engg
- Civil Engg Drawing & Graphics

Semester 3

- Programming Fundamentals
- Engineering Surveying-II
- Mechanics of Solids-I
- Engineering economics
- Fluid Mechanics-I
- Quantity & Cost Estimation

Semester 4

- Construction Engineering
- Structural Analysis-I
- Soil Mechanics
- Numerical Analysis
- Environmental Engineering-I
- Concrete Technology

Semester 5

- Probability and statistics
- Fluid Mechanics-II
- Communication & Presentation Skills
- Organizational Behaviour
- Reinforced Concrete Design-I
- Transportation Planning & Engg

Semester 6

- Construction Management
- Mechanics of Solids-II
- Highway and Traffic Engineering
- Engineering Hydrology
- Structural Analysis-II
- Technical Report Writing

Semester 7

- Entrepreneurship
- Architecture & Town Planning
- Geotechnical and Foundation Engg
- Reinforced Concrete Design -II
- Civil Engineering Project-I

Semester 8

- Geoinformatics
- Environmental Engineering-II
- Steel Structures
- Hydraulics and Irrigation Engg
- Professional Ethics
- Civil Engineering Project-II

136 Credit Hours

47 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with Mathematics & Physics from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

MAIN TEAM

Dr. Saeedullah Jan Mandokhel

Assistant Professor
CHAIRMAN
Department of Civil Engg.
saeed.ullah@buitms.edu.pk

Dr. Saeed-ullah Jan Mandokhail did his PhD in Civil Engineering (majoring in Geotechnical Engineering) from Hanyang University, South Korea in 2017, M.E (Civil) Geo-Technical Engineering from NED University Karachi in 2011 and BE in Civil Engineering from BUET Khuzdar in 2007.
He has served the department of Local Government Baluchistan as Assistant Engineer from 2009 to 2012. He joined Civil Engineering department in the faculty of Engineering and Architecture, BUITEMS as Assistant Professor in 2012. He has number of research publications in ranked international journals.
His research interests are: 1) Soil dynamics andearthquake engineering, 2) Soil-structure interaction, 3) fundamental soil mechanics, 4) soil characterization via waves

Dr. Zafar Baloch
Associate Professor
engr.zafar@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
M.E Environmental Engineering NEDUET Karachi
PhD Structural Engineering Hanyang University South Korea
Joined BUITEMS in 2009

Dr. Muhammad Habib
Assistant Professor
muhammad.habib@buitms.edu.pk
B.Sc. Civil Engineering UET Lahore
MS Structural Engineering Huazhong UST China
PhD Structural Engineering Huazhong UST China
Joined BUITEMS in 2010

Dr. Naik Muhammad Babar
Assistant Professor/ GS Coordinator DGRC
naik.muhammad@buitms.edu.pk
B.Sc Civil Engineering UET Peshawar
MS Structural Engineering Hanyang University South Korea
PhD Structural Engineering Hanyang University South Korea
Joined BUITEMS in 2010

Dr. Asad Naeem
Assistant Professor
asad.naeem@buitms.edu.pk
B.Sc. Civil Engineering UET Lahore
MS Structural Engineering SKKU South Korea
PhD Structural Engineering SKKU South Korea
Joined BUITEMS in 2013

Engr. Nawaz Ali
Assistant Professor
nawaz.ali@buitms.edu.pk
B.Sc Civil Engineering UET Taxila
M.Sc Transportation Engineering Akita Uni, Japan
Joined BUITEMS in 2010

Engr. Abdullah Khan
Assistant Professor
abdullah.khan@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Syed Zafarullah Khan
Assistant Professor
syed.zafar@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Shahnawaz
Lecturer
shahnawaz.khan@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
MS Civil Engineering Canada
Joined BUITEMS in 2010

Engr. Meer Hamza
Lecturer
meer.hamza@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2011

Engr. Amira Raffique Ahmed
Lecturer
amira.raffique@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2011

Engr. Mohammad Iqbal Tareen
Lecturer
mohammad.iqbal@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Syed Muhammad Qaisar Farooq Shah
Lecturer
qaisar.farooq@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Water Resources and Environmental Management Germany
Joined BUITEMS in 2015

Engr. Marjan Gul
Lecturer
marjan.gul@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Zarak Khan
Lecturer
zarak.khan2@buitms.edu.pk
B.E Civil Engineering SSUET Karachi
MS Contruction Management Kingston University UK
Joined BUITEMS in 2017

Engr. Shehzada Muhammad Emaad Khan
Lecturer
meer.hamza@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Engineering and Management PT Italy
Joined BUITEMS in 2017

MAIN TEAM

Engr. Muhammad Junaid Jamil
Lecturer/ CMS Focal Person
muhammad.junaid1@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2017

Engr. Arian Khan
Lecturer
aian.khan@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
ME Civil Engineering NEDUET Karachi
Joined BUITEMS in 2018

Engr. Samiullah Khan
Lecturer
samiullah.khan1@buitms.edu.pk
B.E Civil Engineering NEDUET Karachi
M.E Transportation Engineering NEDUET Karachi
Joined BUITEMS in 2018

Engr. Muhib Ullah Tareen
Lecturer
muhib.ullah2@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
M.E Transportation Engineering NEDUET Karachi
Joined BUITEMS in 2018

Engr. Aamir Mahmood
Assistant Professor (On study leave)
aamir.mahmood@buitms.edu.pk
BS Civil Engineering VSTU, Ukraine
MS Civil Engineering VSTU, Ukraine
Joined BUITEMS in 2006

Engr. Mohammad Salman Nazar
Assistant Professor (On study leave)
mohammad.salman@buitms.edu.pk
B.Sc Civil Engineering NUST Risalpur
M.Sc Construction Management UTM Malaysia
Joined BUITEMS in 2013

Engr. Syed Jahanzaib Shah
Assistant Professor (On study leave)
jahanzaib.shah@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2013

Engr. Syed Nasir Shah
Assistant Professor (On study leave)
syed.nasir@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Mohammad Ayoub
Assistant Professor (On study leave)
nawaz.ali@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Anwaar Hazoor Ansari
Assistant Professor (On study leave)
anwaar.hazoor@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
M.E Geotechnical and Highway Engg NEDUET Karachi
Joined BUITEMS in 2016

Engr. Zafreen Elahi
Lecturer (On study leave)
zafrin.elahi@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Highway and Transportation Engg UPM Malaysia
Joined BUITEMS in 2015

Engr. Ahsan Ali
Lecturer (On study leave)
ahsan.ali@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering Germany
Joined BUITEMS in 2015

Engr. Zarak Khan Kasi
Lecturer (On study leave)
zarak.khan1@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Syed Abdul Ghaffar
Lecturer (On study leave)
syed.ghaffar@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Transportation Engineering NEDUET Karachi
Joined BUITEMS in 2018

Engr. Sadam Hussain
Lab Engineer
sadam.hussain@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2017

Engr. Abdul Wakeel Khan
Lab Engineer
abdul.wakeel@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2017

Engr. Ali Fahad Khan
Lab Engineer
ali.fahad@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2019

Engr. Masood Ahmed
Lab Engineer
masood.ahmed2@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2019

Engr. Muhammad Irfan Ullah
Lab Engineer
muhammad.irfan2@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2019

Geological Engineering

Geological engineering is the engineering science of applying engineering principles to the study of geological materials as part of the engineering design of facilities including roads, tunnels, and mines especially as related to minerals and mineral products. Some see it as a merging of the disciplines of geology and engineering and material science, but, while it includes aspects of all, it has several specializations unique to the field.

Geological Engineers play key roles in the exploration, protection, and responsible development of Earth's water, mineral, and hydrocarbon resources. They also ensure that structures such as bridges, dams and buildings are designed for long term stability and safety, taking geological conditions and hazards into account. They must integrate a wide variety of data with engineering knowledge in order to make informed recommendations and decisions.

The Department

The department of Geological Engineering at BUITEMS was founded in 2008, as an undergraduate program with thirty-three students in its first batch. The Geological Engineering Department has fourteen faculty members; most of them are foreign qualified from best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering BS program in Geological Engineering.

Program Educational Objectives (PEO's)

The Geological Engineers graduated from BUITEMS will have;

1. The ability to apply technological and engineering fundamentals for the solution of geotechnical and environmental problems that are related to Geological processes.
2. The ability to exhibit effective communication, teamwork, leadership skills, and technical competence enabling them to excel in their professional careers as well as in higher studies.
3. The ability to fulfil ethical, professional, and social responsibilities in their professional lives and community services.

Vision

To be among the leading Geological Engineering department of the country with programs providing quality graduates for the geological and allied industry with focus on the research and development..

Mission

The Department of Geological Engineering is committed to train engineers with advanced knowledge and contemporary skills, while promoting a culture of research, equipping students with the art of living to achieve success in their future professional careers not only in Pakistan but throughout the world.

SCHEME OF STUDY

Semester 1

- Engineering Drawing & Graphics
- Applied Electricity
- Applied Geology
- Applied Chemistry
- Applied Mathematics-I
- Islamic studies /Ethics

Semester 2

- Mineralogy & Petrology
- Introduction to Geological Engg
- Applied Mathematics-II
- Applied Physics
- English-I
- Pakistan Studies

Semester 3

- Applied Thermodynamics
- Stratigraphy & Structural Geology
- Applied Mathematics-III
- Fluid Mechanics
- English-II
- Engineering Economics

Semester 4

- Mechanics of Material
- Surveying
- Hydrogeology
- Statistics
- Computing Sc. & Num. Analysis

Semester 5

- Engineering Geology
- Geophysical Exploration
- Geotechnical Engineering-I
- Explosives Engineering
- Engineering Management

Semester 6

- Petroleum Geology
- Rock Mechanics
- Earth Quake Seismology & Risk Assmnt
- GIS & Remote Sensing
- Geotechnical Engineering-II

Semester 7

- Pavement & Foundation Engg
- Excavation Engineering
- Petrophysics & Well Logging
- Seismic Data Procg & Intpn
- Project -I

Semester 8

- Environment Geology & Waste Mgmt
- Entrepreneurship
- Elective Course
- Project -II

137 Credit Hours

42 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

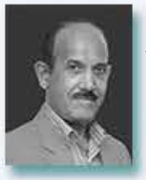
F.Sc. (Pre Engg) with from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

MAIN TEAM

Dr. Zafar Baloch
Associate Professor
CHAIRMAN
Department of Geological Engg.
engr.zafar@buitms.edu.pk

Engr. Dr. Zafar Baloch did his B.E. Civil Engineering from Balochistan University of Engineering & Technology, Khuzdar. He did his Masters of Engineering Environmental Engineering from NED University of Engineering and Technology Karachi. and completed his Phd in Civil and Environmental Engineering at Hanyang University, Seoul, South Korea. He joined the BUITEMS in 1st January 2010 previously worked in Military Land and Cantonment Board, NGO's and with different contractors. His research interests are Structural Health Monitoring, Internet of Things, Deep learning, Artificial Neural Networks, Smart Energy.



Dr. Syed Mobasher Aftab
Associate Professor
syed.mobasher.@buitms.edu.pk
B.Sc Geology University of Balochistan Quetta
M.Sc Geology University of Balochistan Quetta
PhD Hydrogeological Engg. Technical University, Turkey
Joined BUITEMS in 2015

Dr. Abdul Muntaqim Naji
Lecturer
abdul.muntaqim@buitms.edu.pk
B.Sc Geological Engineering UET Lahore
MS Geotechnical Engineering Hanyang University South Korea
PhD Geotechnical Engineering Hanyang University South Korea
Joined BUITEMS in 2011

Engr. Shabir Ahmed
Assistant Professor (On Study Leave)
shabir.ahmed@buitms.edu.pk
B.Sc Geological Engineering UET Lahore
M.E Geotechnical Engineering NEDUET Karachi
Joined BUITEMS in 2009

Mr. Shaukat Parvaiz
Assistant Professor (On Study Leave)
shaukat.parvaiz@buitms.edu.pk
B.Sc Computer Science Hazara university Mansehra
M.Sc Earth Sciences Quaid-i-Azam University Islamabad
Joined BUITEMS in 2009

Engr. Abdullah Khan
Assistant Professor
abdullah.khan@buitms.edu.pk
B.E Civil Engineering BUET Khuzdar
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Imad Ali
Lecturer
imad.ali@buitms.edu.pk
B.Sc Geological Engineering UET Lahore
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2012

Mr. Nasir Khan
Lecturer
nasir.khan@buitms.edu.pk
BS Earth Sciences Bahria University Karachi
MS Hydrogeology Qauid i Azam University Islamabad
Joined BUITEMS in 2012

Engr. Siraj Hassan
Lecturer
siraj.hassan@buitms.edu.pk
BS Geological Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2013

Engr. Muhammad Hasnain
Lecturer
mohammad.hasnain@buitms.edu.pk
B.Sc Geological Engineering UET Lahore
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Rafi Ullah
Lecturer (On study leave)
rafi.ullah@buitms.edu.pk
BS Geological Engineering BUITEMS Quetta
M.E Geotechnical Engineering UTM Malaysia
Joined BUITEMS in 2015

Engr. Barkat ullah Khan
Lecturer
barkatullah.khan@buitms.edu.pk
BS Geological Engineering BUITEMS Quetta
MS Environmental Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Mohammad Iqbal Tareen
Lecturer
mohammad.iqbal@buitms.edu.pk
BS Civil Engineering BUITEMS Quetta
MS Civil Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Asif Abbas
Lecturer
asif.abbas@buitms.edu.pk
B.Sc Geological Engineering
MS Civil Engineering
Joined BUITEMS in 2020

Engr. Rana Muhammad Faisal Khan
Lab Engineer
rana.muhammad@buitms.edu.pk
BS Geological Engineering BUITEMS Quetta
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2020

Mechanical Engineering

Mechanical engineering is a stream of engineering which provides solutions to the development of processes and products, ranging from small component design to extremely large plant, machinery or vehicles. Mechanical engineering caters all stages of a product, from research and development to design and manufacturing, installation and commissioning.

Several industries rely on a form of mechanical systems and mechanical engineering is thought to be one of the most diverse of all the engineering disciplines. Due to this edge over disciplines, there are numerous job opportunities in mechanical engineering in a broad range of sectors such as manufacturing, power, construction, medical, aerospace, process and oil. Moreover mechanical engineers can be involved in the resource management as well as the development of new technologies.

The Department

The department of Mechanical Engineering at BUITEMS was founded in 2014, as an undergraduate program with just three faculty members and fifty students. Today, the Mechanical Engineering has eleven faculty members; most of them are foreign qualified from best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering BS program in Mechanical Engineering.

Program Educational Objectives (PEO's)

1. Provide solution to application level problem of energy, manufacturing and food sector using knowledge of basic sciences and fundamentals of mechanical engineering.
2. Design mechanical system by using analytical thinking, knowledge and modern techniques and create new ideas related to the modern disciplines.
3. Acquire the competency for interdisciplinary approach to address the complex problems in the social technological area like renewable energy and sustainable development by inculcating profession, ethical value, teamwork, leadership, communication and managerial skill.
4. Develop attitude or lifelong learning to make graduates adopt a healthy and symbiotic environment with strong entrepreneurial instinct helping in creating new opportunities, especially in Balochistan.

Vision

To be a highly reputed Mechanical Engineering department, that offers its own unique blend of technical specializations and research opportunities.

Mission

The mechanical engineering department at BUITEMS is committed to provide a challenge driven academic environment to the young professionals. We facilitate students to build their capacity and make them ready for the competitive world. Keeping our foreign qualified faculty up to date with the state of the art techniques is our top priority. We also desire to maintain our department's standing as the first choice for merit students.

SCHEME OF STUDY

Semester 1

- Applied Chemistry
- Applied Physics
- Calculus & Analytical Geometry
- Functional English
- Islamic Studies
- Mechanical Workshop
- Pakistan Studies

Semester 2

- Electrical Engineering
- Engineering Materials & Metallurgy
- Engineering Statics
- Intro. to Computer Programming
- Mechanical Engg Drawing
- Thermodynamics - I

Semester 3

- Computer-Aided Drawing
- Differential Equations
- Engineering Dynamics
- Engineering Mechanics
- Fluid Mechanics - I
- Solid Mechanics - I
- Thermodynamics - II

Semester 4

- Basic Electronics
- Linear Algebra & Transforms
- Fluid Mechanics II
- Machine Design - I
- Solid Mechanics - II
- Computer Aided Engineering

Semester 5

- Communication Skills
- Heat & Mass Transfer
- Numerical Analysis
- Machine Design - II
- Manufacturing Processes - I
- Technical Report Wrt & Pt Skills

Semester 6

- Manufacturing Processes – II
- Applied Statistics
- Mechanics of Machines
- Mechanical Instrumentation & Control
- Internal Combustion Engines

Semester 7

- Mechanical Vibrations
- Health, Safety & Environment
- Engineering Economics
- Project Management
- Power Plant
- Project - I

Semester 8

- Refrigeration & Air Conditioning
- Automation & Robotics
- Professional Ethics & Entrepreneurship
- Renewable Energy System
- Project – II

134 Credit Hours

48 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with Mathematics & Physics from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

MAIN TEAM

Dr. Azmatullah Khan Sherani
Assistant Professor
CHAIRMAN
Department of Mechanical Engg.

Dr. Azmatullah Khan did his Bachelor's in Industrial Engineering & Management from Dawood College of Engineering & Technology Karachi in 2006. He joined Dawood College as Visiting Faculty Member from 2007 to 2009. He also served as Assistant Manager Quality Assurance and reliability in the Production Department Peoples Steel Mills Karachi from 2009 to 2010. He did his Master's in the field of Engineering Management from NED University of Engineering & Technology Karachi in 2010.
He joined BUITEMS in 2011. His research area are in the field of Quality and reliability for production and manufacturing Engineering and Alternate and renewable energy for hybrid systems. Presently he is Head of the Department of Mechanical Engineering since Spring 2019.

Engr. Arshad Ali
Assistant Professor
arshad.ali@buitms.edu.pk
B.E Mechanical Engineering BUET Khuzdar
MS Metallurgical Engg, MS Industrial Engg
MS Structural Design, MS Statistics
Joined BUITEMS in 2011

Dr. Asadullah
Assistant Professor
asadkhan1354@gmail.com
B.E Industrial Engineering and Management DUET Karachi
MS Mechanical Engineering Hanyang University S. Korea
PhD Mechanical Engineering Hanyang University S. Korea
Joined BUITEMS in 2020

Dr. Imdadullah Thaheem
Assistant Professor
engrimdad67@gmail.com
B.E Mechanical Engineering QUEST Nawabshah
M.E Energy System Engineering MUET Jamshoro
PhD Energy Science & Engineering GIST S. Korea
Joined BUITEMS in 2020

Dr. Ali Nawaz Mengal
Professor
ali.nawaz@buitms.edu.pk
B.Sc. Mechanical Engineering UET Taxila
M.E Mechanical Engineering NEDUET Karachi
PhD Mechanical Engineering UT PETRONAS Malaysia
Joined BUITEMS in 2006

Engr. Asif Hussain
Lecturer
asif.hussain@buitms.edu.pk
B.E Mechanical Engineering BUET Khuzdar
Enrolled in MS Mechanical Engineering
Joined BUITEMS in 2008

Engr. Muhammad Adil Khan
Lecturer (On study leave)
adil.khan@buitms.edu.pk
B.E Mechanical Engineering MU Melbourne
MS Sustainable Energy RMIT Melbourne
Joined BUITEMS in 2018

Engr. Kaleemullah Shaikh
Lecturer
kaleem.shaikh@buitms.edu.pk
B.E Mechanical Engineering MUET Khairpur
MS Environmental Engineering MUET Jamshoro
Joined BUITEMS in 2017

Engr. Monaza Shaheen
Lecturer
monaza.shaheen@buitms.edu.pk
B.Sc. Mechatronics Engineering WEC Wah Cantt.
MPhil Project Management BU Islamabad
Joined BUITEMS in 2017

Engr. Muhammad Ayub
Lecturer
muhammad.ayub2@buitms.edu.pk
B.E Mechanical Engineering BUET Khuzdar
ME Energy System Engineering MUET Jamshoro
Joined BUITEMS in 2017

Engr. Zaib Shahid
Lecturer
zaib.shahid@buitms.edu.pk
B.E Mechanical Engineering NEDUET Karachi
ME Mechanical Engineering PT Turin
Joined BUITEMS in 2016

Engr. Arsalan Yawar
Lecturer
arsalan.yawar@buitms.edu.pk
B.E Mechanical Engineering UET Taxila
MS Mechanical Engineering UET Taxila
Joined BUITEMS in 2020

Engr. Kashif Liaqat
Lecturer
kashif.liaqat@buitms.edu.pk
B.E Mechanical Engineering BUITEMS Quetta
MS Environmental Engineering Florida SU, USA
Joined BUITEMS in 2021

Engr. Shabir Ahmed
Lecturer
shabir.ahmed@buitms.edu.pk
B.E Mechanical Engineering NEDUET Karachi
MS Renewable Energy System NEDUET Karachi
Joined BUITEMS in 2021

Engr. Gohar Ali
Lecturer
gohar.ali@buitms.edu.pk
B.E Industrial Engineering & Management IQTM Lahore
MS Mechanical Engineering NEDUET Karachi
Joined BUITEMS in 2021

Engr. Suleman khan
Lab Engineer
suleman.khan@buitms.edu.pk
BS Mechanical Engineering BUITEMS Quetta
Joined BUITEMS in 2019

Mining Engineering

Mining Engineering is a multifaceted profession that provides a broad range of career opportunities for our graduates in industries such as the Metal Mining (Hard Rock Mining) and Non-metal mining; Coal mining, Gems, Quarrying, suppliers of mining equipment/machinery, research, mine valuation and consultancy, etc.

The demand for Mining Engineers has continued in the public sectors including Mines & Mineral Development Department, Government of Balochistan, Saindak Copper & Gold Project, Rekodiq Gold Project, Underground Gasification Project, Thar, Government of Sindh; Lakhra Coal Development Company; Pakistan Atomic Energy Commission (PAEC); Pakistan Mineral Development Corporation (PMDC); Oil and Gas Development Corporation Ltd (OGDCL); Quarries of Pakistan Steel mill, and various other private organizations like; Coal mines, Cement industries, etc.

The Department

The department of Mining Engineering at BUITEMS was founded in 2008, as an undergraduate program with just four faculty members and twenty-two students. Today, the Mining Engineering Department has sixteen faculty members; most of them are foreign qualified from best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering BS and MS programs in Mining Engineering (BS-MNE).

Program Educational Objectives (PEO's)

The Mining Engineers graduated from BUITEMS will have the ability;

1. Recognize, investigate and address engineering problems related to exploitation of mineral deposits of Pakistan in general and Balochistan in particular by employing modern techniques
2. Exhibit high level technical competency, applying research and problem solving skills to produce solutions in the field of Mining Engineering.
3. Exercise professional excellence utilizing intrapersonal skills focused on workplace safety, environmental sustain ability and engineering professional ethics addressing interests of major stakeholders and societal growth.
4. Address complex engineering problems related to Mining Engineering by persuading lifelong learning..

Mission

Striving for high quality undergraduate program supported by contemporary and compatible curriculum, applied research, and to produce technically competent mining graduates possessing skills to contribute to Mining industry of Pakistan in general and Balochistan in particular with an environment friendly approach.

SCHEME OF STUDY

Semester 1

- Analytic Geometry & Calculus
- Applied Chemistry
- Applied Physics
- Engineering Drawing & Graphics
- Mining Engg. Fundamentals

Semester 2

- Differential Equations
- Applied Thermodynamics
- Applied Geology
- Islamic Studies/ Ethics
- English Comp. & Compre.

Semester 3

- Professional Ethics
- Engineering Mechanics
- Basic Electrical Technology
- Fluid Mechanics
- Mine Surveying

Semester 4

- Communication Skills
- Computer Programming
- Linear Algebra
- Pakistan Studies
- Mechanics of Material
- Probability & Statistics

Semester 5

- Report Writing Skills
- Numerical Method in Computing
- Structural Geology
- Mineral Exploration
- Explosives Engineering
- Entrepreneurship

Semester 6

- Cement Technology
- Surface Mine Design
- Rock Mechanics
- Coal Technology
- Drilling Technology

Semester 7

- Mining Laws
- Mine Ventilation
- Mineral Processing
- Engineering Economics
- Organizational Behavior
- Senior Design Project -I

Semester 8

- Underground Mine Design
- Mine Hazards & Safety
- Engineering Management
- Tunnel Engineering
- Senior Design Project -II
- First Aid Course*

140 Credit Hours

43 Courses

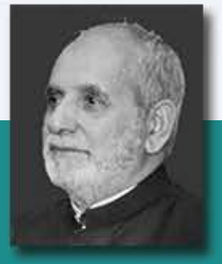
Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

MAIN TEAM



Dr. Khan Gul Jadoon
Professor
CHAIRMAN
Department of Mining Engg.
khan.gul@buitms.edu.pk

Engr. Dr. Khan Gul graduated from University of Engineering & Technology, Peshawar with B.Sc in Mining Engineering in 1984. Since January, 1985, he worked in various positions in UET Peshawar Pakistan. In 1991, Won a Commonwealth Scholarship for PhD study and completed PhD from the University of Nottingham, UK in 1995 in the field of Mine safety.
In 2005, he won a Commonwealth Post-doctoral Fellowship which was completed from the Institute of Work, Health and Organizations (I-WHO) University of Nottingham from in 2006. Keeping in consideration his interest in occupational safety related research, the British Council/Charles Wallace, Trust UK awarded him a visiting Fellowship tenable in the UK which was completed in April, 2000 from the University of Nottingham, UK.
He had received the Best Teacher Award from the Higher Education of Pakistan for the year 2004. and achieved Professional Excellence Award by Pakistan Engineering Council in 2009.

Dr. Hafeezur Rehman
Lecturer
hafeezur.rehman@buitms.edu.pk
B.Sc Mining Engineering UET Peshawar
MS Geotechnical Engineering Hanyang University South Korea
PhD Geotechnical Engineering Hanyang University South Korea
Joined BUITEMS in 2013

Dr. Fahim Ahmed Ibupoto
Lecturer
fahim.ahmed@buitms.edu.pk
B.E Mining Engineering MUET Jamshoro
MS leading to PhD Mechanical Engg. SKKU South Korea
Joined BUITEMS in 2015

Engr. Zaheer Ahmed
Assistant Professor (On Study Leave)
zaheer.kasi@buitms.edu.pk
B.Sc Mining Engineering UET Lahore
MS Resource development and processing AU Japan
Joined BUITEMS in 2010

Engr. Muhammad Bilal
Assistant Professor (On study leave)
muhammad.bilal1@buitms.edu.pk
BS Mining Engineering BUITEMS Quetta
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2013

Engr. Wahid Ali
Assistant Professor (On study leave)
wahid.ali@buitms.edu.pk
BB.Sc Mining Engineering UET Peshawar
MS Mining Engineering UET Peshawar
Joined BUITEMS in 2014

Engr. Muhammad Ali
Assistant Professor (On study leave)
mohammad.ali@buitms.edu.pk
B.Sc Mining Engineering UET Peshawar
MS Mining Engineering UET Peshawar
Joined BUITEMS in 2015

Engr. Fawad Ul Hassan
Assistant Professor
fawad.hassan@buitms.edu.pk
B.Sc Mining Engineering UET Peshawar
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Sher Bacha
Assistant Professor (On study leave)
sher.badshah@buitms.edu.pk
B.E Mining Engineering UET Peshawar
MS Mining Engineering UET Peshawar
Joined BUITEMS in 2015

Engr. Abdullah Rasheed Qureshi
Lecturer
abdullah.rasheed@buitms.edu.pk
B.E Mining Engineering MUET Jamshoro
MS Mining Engineering CUMT China
Joined BUITEMS in 2011

Engr. Naseer Muhammad Khan
Lecturer
naseer.muhammad@buitms.edu.pk
B.Sc Mining Engineering UET Peshawar
MS Mining Engineering UET Peshawar
Joined BUITEMS in 2015

Engr. Tufail Ahmed
Lecturer
tufail.ahmad@buitms.edu.pk
BS Mining Engineering BUITEMS Quetta
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Engr. Abbas Hussain
Lecturer
abbas.hussain@buitms.edu.pk
BS Mining Engineering BUITEMS Quetta
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2016

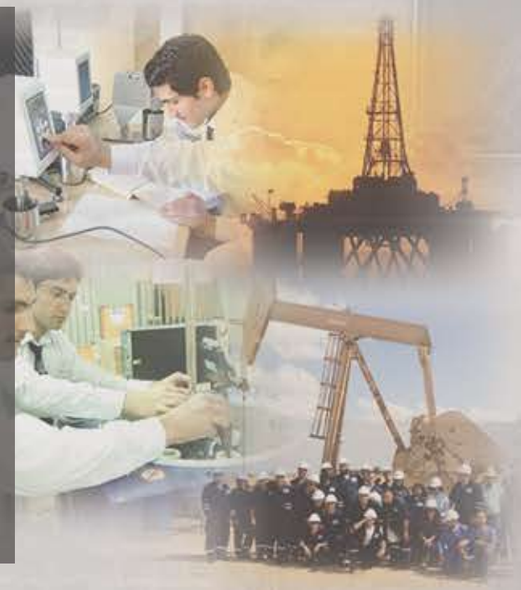
Engr. Sami ullah Kakar
Lecturer
sami.ullah@buitms.edu.pk
BS Mining Engineering BUITEMS Quetta
MS Mining Engineering BUITEMS Quetta
Joined BUITEMS in 2017

Engr. Sajid Khan
Lecturer
sajid.khan@buitms.edu.pk
B.Sc Mining Engineering UET Peshawar
MS Mining Engineering UET Peshawar
Joined BUITEMS in 2018

Petroleum & Gas Engineering

Balochistan is rich in natural resources like Oil, Gas and Minerals. The largest reserves of gas exist in the area of Sui of this Province, which meets one-third of the country's energy requirements. Further more, Petroleum Engineering has become an area of interest for the globe considering current energy needs of the industrialized society.

The ultimate goal of a petroleum engineer is to pursue all the techniques to achieve maximum sustainable recoveries from conventional and unconventional reservoirs. Achievement of such objectives requires extensive drilling, production and reservoir engineering strategies. Hence, oil and gas industry requires professional graduates capable to deal entire field challenges related to drilling, production and reservoir engineering. Therefore, present need is to train young minds on practical, theoretical and research horizons.



The Department

The department of Petroleum & Gas Engineering at BUITEMS was founded in 2004, as an undergraduate program with just two faculty members and fifty students. Today, the Engineering has fourteen faculty members; most of them are foreign qualified from the best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering BS program in Petroleum & Gas Engineering .

Program Educational Objectives (PEO's)

The graduates of Petroleum and Gas Engineering department will be able to;

1. Address complex engineering problems and sustainable development of conventional and unconventional hydrocarbon resources by utilizing professional, teamwork, communication, and managerial skills.
2. Fulfil the requirements and necessary skills for higher studies and cutting-edge research.
3. Adopt a healthy and symbiotic environment with strong moral and commercial instinct with lifelong learning, helping in creating new opportunities in Pakistan, especially in Balochistan.

Vision

To be recognized as "Centre of Excellence in Petroleum & Gas Engineering" of the country by producing technically sound petroleum engineers to fuel the indigenous and global petroleum industry.

Mission

The program cultivates industrious engineers for the national and international Petroleum and Gas industry and its related fields in education, business, and government by providing technical knowledge, skills and values through academic inquiry, teaching and technical services.

SCHEME OF STUDY

Semester 1

- Funda. of Petroleum Engg.
- Applied Geology
- Applied Mathematics-I
- Applied Physics
- Functional English
- Workshop Practice

Semester 2

- Communication & Present. Skills
- Islamic Studies/Ethics
- Pakistan Studies
- Applied Mathematics-II
- Applied Chemistry
- Engineering Drawing
- Intro. to Computer Programming

Semester 3

- Technical Report Writing
- Applied Mathematics-III
- Fluid Mechanics
- Principles of Electrical Engineering
- Pet. Geology & Geophysical Exploration
- Applied Thermodynamics

Semester 4

- Applied Statistics
- Mechanics of Materials
- Drilling Engineering-I
- Petrophysics
- Introduction to Sociology

Semester 5

- Applied Numerical Methods
- Properties of Reservoir Fluids
- Drilling Engineering-II
- Environment and Safety Mgmt.
- Instrumentation & Process Control

Semester 6

- Intro. to Unconventional Resources
- Well Logging
- Reservoir Engineering-I
- Petroleum Production Engineering-I
- Petroleum Refinery Engineering

Semester 7

- Project Part-I
- Project Planning and Mgmt.
- Well Testing
- Petroleum Production Engg-II
- Reservoir Simulation

Semester 8

- Project Part-II
- Natural Gas Engineering
- Engineering Economics
- Principles of Enhanced Oil Recovery
- Reservoir Engineering – II

136 Credit Hours

44 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

Dr. Nasir Khan
Assistant Professor
CHAIRMAN
Department of P&G Engg.
nasir.khan1@buitms.edu.pk

Dr. Nasir Khan has been working as an Assistant Professor at BUITEMS,Quetta since October,2018. As far as the academic background is concerned, Dr. Khan has acquired B.Sc. Engineering degree in Chemical Engineering discipline from University of Engineering & Technology Peshawar in 2010. After severing for two years in an industry, Dr. Khan has obtained HEC scholarship for pursuing MS leading to Ph.D. program in 2012. He has chosen China University of Petroleum (East China) as one of the well-known university for the aforementioned program. Dr. Khan has successfully accomplised Ph.D degree majoring in Oil & Gas Field Development in June,2018.
Considering his research area, Dr. Khan has published various journal articles in peer-reviewed journals. The research area mainly revolves around the formation damage mitigation that is caused by various means.

MAIN TEAM

Dr. Azizullah Shaikh
Assistant Professor
hafiz.azizullah@buitms.edu.pk
B.E Petroleum and Natural Gas Engineering MUET Jamshoro
M.E Petroleum Engineering MUET Jamshoro
PhD Fracturing Fluid CUP China
Joined BUITEMS in 2007

Engr. Zafarullah
Assistant Professor
zafar.abro@buitms.edu.pk
B.E Petroleum and Natural Gas Engineering MUET Jamshoro
M.E Petroleum Engineering MUET Jamshoro
Joined BUITEMS in 2008

Engr. Imtiaz Ali
Assistant Professor (On Study Leave)
imtiaz.ali@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
MS Petroleum Engineering King Saud University Saudi Arabia
Joined BUITEMS in 2014

Engr. Allah Bakhsh
Assistant Professor (On Study Leave)
allah.bakhsh@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
M.E Petroleum Engineering MUET Jamshoro
Joined BUITEMS in 2015

Engr. Muhammad Yaqoob Khan
Lecturer
yaqoob.khan@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
MS Energy Tech & Mgmt Sabanci University Turkey
Joined BUITEMS in 2009

Engr. Shahpur Azam
Lecturer
shahpurazam@buitms.edu.pk
B.Sc Petroleum and Gas Engineering UET Lahore
M.E Petroleum Engineering NEDUET Karachi
Joined BUITEMS in 2012

Engr. Syed Jamal ud din
Lecturer
syed.jamal@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
MS Petroleum Engineering CUP China
Joined BUITEMS in 2012

Engr. Nouman Zobby
Lecturer
nouman.zobby@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
M.E Petroleum Engineering Akita University Japan
Joined BUITEMS in 2015

Engr. Zeeshan Khan
Lecturer
zeeshan.khan@buitms.edu.pk
B.Sc Petroleum and Gas Engineering UET Lahore
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2015

Engr. Rehan Mansoor
Lecturer (On Study Leave)
rehan.mansoor@buitms.edu.pk
B.Sc Petroleum and Gas Engineering UET Lahore
M.E Petroleum Engineering UTM Malaysia
Joined BUITEMS in 2015

Engr. Najeeb Ullah Khan
Lecturer
najeeb.ullah2@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
MS Chemical Engineering BUITEMS Quetta
Joined BUITEMS in 2016

Mr. Muhammad Yasir
Lecturer
muhammad.yasir1@buitms.edu.pk
BS Petroleum and Gas Engineering BUITEMS Quetta
MS Project Management University of Sunderland UK
Joined BUITEMS in 2018

Engr. Usama Ahmed Khan
Lecturer
yaqoob.khan@buitms.edu.pk
B.E Petroleum and Natural Gas Engg MUET Jamshoro
MS EPetroleum Engineering Khazar University Azerbaijan
Joined BUITEMS in 2018

Engr. SAud Ahmed Shah
Lab Engineer
saud.ahmed@buitms.edu.pk
B.E Petroleum and Gas Engg UET Lahore
Joined BUITEMS in 2017

Textile Engineering

Pakistan is the 8th largest exporter of textile commodities in Asia. Textile sector contributes 8.5% to the GDP of Pakistan. In addition, the sector employs about 45% of the total labor force in the country. This sector needs skilled professionals and Engineers for the smooth running of the manufacturing processes and quality control.

Textile engineering deals with the application of science to reveal the relationships between the raw material, process and the finished product to achieve the desired functional or aesthetic effects in the fabric. The success of fabric engineering depends on reliable objective measurements, prediction and control of fabric quality and performance attributes.

In near future Gawadar will be the Centre of industrial zone and demand of Textile Engineers will be increased by PAK-CHINA corridor agreement, with the increase in Textile sector.

The Department

The department of Textile Engineering at BUITEMS was founded in 2004, as an undergraduate program with just three faculty members and twenty students. Today, the Textile Engineering has eleven faculty members; most of them are foreign qualified from best universities of the world. The department has a growing, vibrant, research-oriented faculty who take great pride in research and in undergraduate education. Currently the Department is offering BS Textile Engineering, MS Textile Engineering and BS Fashion & Textile Design programs.

Program Educational Objectives (PEO's)

1. Implement real-world applications making use of fundamental engineering knowledge, designs and managerial skills gained during the textile engineering program.
2. Generate innovative and sustainable solutions to complex engineering problems contributing to the textile industry.
3. Promote themselves through communication and interpersonal skills, career management strategies and the ability to deal with technological, socioeconomical, environmental and ethical challenges.

Vision

To be the leading textile department for center of Excellence in education and research.

Mission

To Provide professional training, promoting social responsibility, values and a progressive research culture among the students of Textile Engineering, making them capable of providing solutions to complex engineering problems, preserving the environment and sustainable development of Pakistan and the Society.

SCHEME OF STUDY

Semester 1

- Linear Algebra & Geometry
- Applied Chemistry
- Applied Physics
- Textile Raw Materials-I
- Functional English
- Introduction to Textile Engg

Semester 2

- Calculus-I
- Engineering Drawing & Graphics
- Engineering Mechanics
- Textile Raw Materials-II
- Islamic Studies
- Introduction to Computing
- Communication Skills
- Thermodynamics

Semester 3

- Calculus-II
- Fibre Science
- Machine Design
- Pakistan Studies
- Spinning Preparatory Process
- Fabric Manufacturing-I

Semester 4

- Statistics and Probability
- Electrical & Electronic Engg Fund.
- Professional Ethics
- Yarn Production Process
- Fabric Manufacturing-II

Semester 5

- Organizational Behavior
- Technical Writing and Presn Skills
- Spinning Planning & Production
- Weave Designs & Calculation
- Pre-treatments in Textile Wet Procg.
- Garments Manufacturing Fund.

Semester 6

- Operations & Project Management
- Process Systems & Control
- Textile Dyes & Dyeing
- Anthropometry & Clothing Construction
- Technical Textiles
- Textile Utilities & Services
- Color Science

Semester 7

- Engineering Economics
- Merchandizing
- Computer Application in Textiles
- Mechanism of Garment Machines
- Sewn Production Engineering
- Denim technology
- Design Project-I

Semester 8

- Entrepreneurship
- Textile Testing & Quality Control
- Environmental Issues & Control
- Textile Printing & Finishing
- Design Project-II

136 Credit Hours

50 Courses

Each course is taught according to OBE system guidelines regulated by Pakistan Engineering Council. CLO's of each subject are assessed typically by 4 to 6 Assignments, 4 Quizzes, Midterm and Finalterm Examinations. Moreover, some subjects need presentations during the semester. Practical work is assessed separatley according to Lab Rubrics. PEO's of the program is being assessed after three years of graduation date and indicate the achievements of program graduates in their career and professional life after graduation.

Prerequisites

F.Sc. (Pre Engg) with Mathematics & Physics from any recognized board or equivalent with at least 60% marks. Diploma of Associate Engineer in the same field, securing at least 60% marks.

Qualifying the admission test.

Fashion & Textile Design

The Degree of Fashion and Textile Designing Course concentrates on evolving the sensitivity for innovative designs. It focuses on learning from Balochistan cultural context & universal design approach. This 4 years programme delivers a hands-on experience to the students to form designs, make patterns or drapes & create high-quality products. Moreover, this program combines creative innovation, technical skills and artistic ability in this course.

Fashion and Textile Designing is a dynamic field and opens many career opportunities for students because this is very necessary for their bright future. You can satisfy your artistic skills besides the fame and money, associated with this profession. These courses can help you to get jobs as designers, consultants, and managers.

Other directly related jobs are retail buyers, retail managers, merchandisers, and textile designers.

The Program

The Department of Textile Engineering started offering BS in Fashion and Textile Design in Fall 2018 with 28 students and 6 Faculty members. Since Fall 2019, two Textile Designers, a Graphic designers and a Fashion Designer graduated from well reputed institutes of Pakistan have also been included in teaching faculty. The University is making very good effort to make a name among the Fashion and Textile Design Institutes of Pakistan. Students are encouraged to participate in both national and international competitions. Students exhibit their work after every two semesters to showcase their work and create awareness in the people of Baluchistan. The students have won the first prize in all Pakistan DICE Textile design competition award held in March 2020 and 3rd position in Facemask Competition held among university students across the country and organized by European Union.

Aim of the program

The Fashion and Textiles Program in BUITEMS strives to create the new generation of artistic, innovative, creative and highly skilled designers and entrepreneurs, who will find out the needs of both local and international markets, by providing a strong professional education in the diverse technical and cultural aspects of fashion industry.

Inspiring Students

BUITEMS is the only institute in Balochistan which is offering BS in Fashion and Textile Design till date. The Curriculum is designed in such a way which incorporates major subjects of both fashion and textile design, both theory and practical, which nurtures interests and provides a wide career pathway.

Realizing the cultural power of fashion designers, designers from this program not only respond to the demands of local and international fashion clients, but also play a role in setting trends in Balochistan. Fashion and textile design education is now expected to respond to the fashion needs of the citizens of the world. Graduates can pursue their career as fashion or textiles designers, working for their own brands or in any other design houses or industries, work as teachers of their own fields, stylists, fashion vlogger, or pursue further higher studies.

SCHEME OF STUDY

Semester 1

- Functional English
- Islamic Studies
- Basic Drawing
- Digital Communication
- Textile Basics
- Geometry & Drafting
- Basic Color & Design
- History of Arts and Culture

Semester 2

- Communication Skills
- Pakistan Studies
- Figure Drawing-1
- Textile Raw Material
- Pattern Drafting
- Hand Sewing & Embellishment
- History of Arts & Culture-2
- Yarn Making & Design
- Advanced Color & Design

Semester 3

- Creative writing & public speaking
- History of Costume-I
- Foreign Language
- Figure Drawing-II
- Textile CAD-I
- Weave Structure & Design
- Pattern Making-I
- Sewing-I
- Textile Design

Semester 4

- Garment Manufacturing Fundamentals
- Pattern Making-II
- Draping-I
- Fashion Design-I
- Dying and Printing
- Sewing-II
- Knitwear Construction Design
- Textile CAD-II

Semester 5

- Pattern Making-III
- Draping II
- Fashion Design II
- Technical Textiles
- Clothing Productivity & Quality Mgmt
- Sewing III
- History of Costume II
- Textile Finishing Techniques
- Digital Design I

Semester 6

- Digital Design II
- Draping III
- Pattern Making IV
- Contemporary Textiles
- Fashion Design-III
- Sewing-IV
- Advance Textile Materials & Application
- Apparel Costing
- Advances in Apparel Production

Semester 7

- Research and Dissertation Writing
- Denim Product Development
- Entrepreneurship
- Product Design & Execution (Mini Thesis)
- Marketing and Merchandising

Semester 8

- Studio Execution
- Thesis Dissertation

135 Credit Hours

60 Courses

The Curriculum is designed to help students to achieve the skills of professional draping, pattern making, and sewing techniques along with supporting courses., Assignments are planned with the aim of developing skills, analytical thinking, Students bring out creativity in fashion design by doing theme based projects and ending up in to a product/garment. Research is conducted on contemporary fashion to develop awareness of the local and international markets .At the time of graduation theme based collection of every student is showcase.

Prerequisites

Intermediate with 45% marks from any recognized board or equivalent.
Admissions are awarded on the basis of;
NTS and Aptitude tests
Freehand drawing
Interview

MAIN TEAM

Dr. Syed Zameer ul Hassan
Associate Professor
CHAIRMAN
Department of Textile Engg.
syed.zameer@buitms.edu.pk

Engr. Dr. Syed Zameer ul Hassan did his Bachelor's in Textile Engineering from National College of Textile Engineering, Faisalabad in 1997 with specialization in spinning. His versatile experience in Textile Industry is more than nine years in prestigious organizations. He joined BUITMS as Lecturer in 2006. Dr. Syed Zameer did his Masters in Textile Engineering from Technical University of Liberec, Czech Republic in 2008. He did his PhD from Technical University of Liberec, Czech Republic in 2014, under the title "Identification of risk concentrations of hazardous compounds on textiles ".
His research areas are Biosensors, Risk Concentrations, Cotton Toxicity, Gas Chromatography techniques & Technical Textiles.

Dr. A. Malik Rehan Abbasi
Associate Professor
rehan.abbasi@buitms.edu.pk
B.Sc Textile Engineering NCTE (NTU) Faisalabad
MS Textile Engineering Technical University of Liberec, Czechia
PhD Textile Engineering Technical University of Liberec, Czechia
Joined BUITMS in 2005

Dr. Muhammad Qasim Siddiqui
Associate Professor
qasim.siddiqui@buitms.edu.pk
B.E Textile Engineering MUET Jamshoro
M.E Textile Engineering NEDUET Karachi
PhD Textile Engineering Donghua University China
Joined BUITMS in 2010

Dr. Ali Asghar
Lecturer
ali.asghar@buitms.edu.pk
B.Sc Textile Engineering NCTE (NTU) Faisalabad
MS Textile Engineering University Technology Mara Malaysia
PhD Textile Engineering University Technology Mara Malaysia
Joined BUITMS in 2007

Dr. Ahmer Hussain Shah
Assistant Professor
ahmer.shah@buitms.edu.pk
B.E Textile Engineering MUET Jamshoro
M.E Textile Engineering MUET Jamshoro
PhD Material Sciences and Engineering Harbin Univ China
Joined BUITMS in 2007

Dr. Zamir Ahmed Abro
Assistant Professor/ GS Coordinator
zamir.abro@buitms.edu.pk
B.E Textile Engineering MUET Jamshoro
MS Textile and Materials Engineering ZSTU China
PhD Textile Engineering Donghua University China
Joined BUITMS in 2009

Engr. Muhammad Ali Zeeshan
Assistant Professor/CMS focal person
engr.zeeshan@buitms.edu.pk
B.Sc Textile Engineering NCTE (NTU) Faisalabad
MS Textile Engineering BUITMS Quetta
Joined BUITMS in 2004

Engr. Nazakat Ali Khoso
Assistant Professor
nazakat.ali@buitms.edu.pk
B.E Textile Engineering MUET Jamshoro
M.E Textile Engineering MUET Jamshoro
Joined BUITMS in 2011

Engr. Syed Qutaba Bin Tariq
Assistant Professor
syed.qutaba@buitms.edu.pk
BS Textile Engineering BUITMS Quetta
M.E Textile Engineering NEDUET Karachi
Joined BUITMS in 2015

Engr. Saif Ullah Khan
Assistant Professor (On Study Leave)
saifullah.khan1@buitms.edu.pk
BS Textile Engineering BUITMS Quetta
MS Textile Engineering BUITMS Quetta
Joined BUITMS in 2015

Engr. Muhammad Kashif
Lecturer
mohammad.kashif@buitms.edu.pk
B.Sc Textile Engineering NCTE (NTU) Faisalabad
MS Textile Engineering NTU Faisalabad
Joined BUITMS in 2006

Engr. Lubna Syed
Lecturer
lubna.syed@buitms.edu.pk
B.Sc Textile Engineering NCTE (NTU) Faisalabad
MS Textile Engineering BUITMS Quetta
Joined BUITMS in 2007

Engr. Qurat-ul-ain Arif
Lecturer (On Study Leave)
quratulain.arif@buitms.edu.pk
BS Textile Engineering BUITMS Quetta
MS Textile Engineering BUITMS Quetta
Joined BUITMS in 2012

MAIN TEAM

Engr. Ali Raza Shafqat
Lecturer
ali.raza2@buitms.edu.pk
B.Sc Textile Engineering NTU Faisalabad
MS Advanced Material Engineering NTU Faisalabad
Joined BUITEMS in 2016

Engr. Raazia Ismat
Lecturer
razia.asmat@buitms.edu.pk
B.Sc Textile Engineering NTU Faisalabad
MS Envir Mgmt & Policy BUITEMS Quetta
Joined BUITEMS in 2013

Ms. Maliha Khan Tareen
Lecturer
maliha.khan@buitms.edu.pk
B. Fashion Design PFID Lahore
Joined BUITEMS in 2019

Ms. Afshan Ambreen
Lecturer
16december1981@gmail.com
B. Textile Design NCA Lahore
Joined BUITEMS in 2018

Quetta is the capital of the province of Balochistan. Quetta is at an average elevation of 1680 m above sea level, making it Pakistan's only high-altitude major city. Being one of the important cities of Pakistan, Quetta is easily accessible by all modern means of transportation.

By Car/Bus

If you are planning to travel to Quetta via road, you can take the major national highway connecting to Quetta. The city is connected to Karachi at a distance of 686 km via the national highway N25. Quetta is connected to Lahore at a distance of 935 km via N70 and N5 and 980 km via N50. The distance between Quetta and Islamabad is 911 km via N50. The distance between Quetta and Peshawar is 835 km via N50 and N55. All major bus service companies provide serivce to Quetta from all major cities of the country.

Distance to BUITEMS

Karachi	698 Km	Lahore	960 Km
Multan	622 Km	Islamabad	9898 Km
Peshawar	827 Km	Gilgit	1373 Km

By Air

BUITEMS is located at a distance of 3 km from Quetta International Airport. The airport, through many national and international carriers, provides a round the clock connection to other major cities of Pakistan and abroad.

By Train

Quetta Railway Station is one of the major railway stations in the country. The railway track was laid in the 1890s during the British era to link Quetta with rest of the country. The extensive network of Pakistan Railways connects Quetta to Karachi in the south, by a 863 km track, Lahore in the northeast (1,170 km) and Peshawar further northeast (1,587 km). Regular train service of Pakistan railways connects Quetta to the rest of the country.

Campus Map

A	Main Entrance to the Campus	R	Arfa Karim Randhawa Expo Centre
B	HBL BUITEMS Branch	S1	Orange Hall
C	Cafeteria	S2	Pink Hall
D	Blue Chip Lab	S3	Purple Hall
E	Academic/Admission Admin Block	S4	Green Hall
F	Entrance Gate to the Campus	T	National Incubation Centre Quetta
G	Sir Syed Block A	U	Directorate of UA & FA
H	Sir Syed Block B	V	Jinnah Hall
I	Hall One	W	Iqbal Hall
J	Library	X	Sports Compex
K	Pro VC Secretariat	Y	Markhor Auditorium
L	Tuck Shops	Z	Mosque
M	CAD/CAM Research Hall	AA	VC Secretariat
N	JICA Hall	AB	Cricket Ground
O	OAG Hall	AC	Football Ground
P	Parking	AD	Medical Unit
Q	Textile Labs & Studios