

BS Mechatronics

This program, developed in direct response to industrial demand for Graduate with multi-disciplinary skills, is a combination of mechanical, electronics, control, computer and systems design engineering streams. The program allows Graduate to design, construct and run factory production lines and automated processes, where they use their skills in computers, micro-controllers, programmable logic controllers, programming, industrial sensors, hydraulic, pneumatic and electric drives, design of mechanical structures and mechanisms and knowledge of manufacturing processes.

SEMESTER 1

Physics I, Chemistry, Applied Calculus, Personal Computer Concepts: Software and Hardware, English-I, Islamic Studies/Ethics (For Non-Muslim Students)

SEMESTER 2

Physics II, Linear Algebra, Electrical and Electronics Engineering, Data Structure and Algorithm, Fundamentals of Mechatronics, English II

SEMESTER 3

Pakistan Studies, Object Oriented Technology, Applied Thermodynamics, Analog and Digital Electronics, Electrical Machines, Mechanical Engineering Design

SEMESTER 4

Mechanics of Fluids, Probability and Statistics for Engineers, Engineering Mechanics & Mechanics of Solids, Manufacturing Technology, Control Engineering, Instrumentation & Control

PROGRAM HIGHLIGHTS

- 4 years degree program
- Enhances employability & assimilation factor in the market
- State-of-the-art academic system
- Saves valuable time, to manage work and studies together
- Transfer credits considered
- Entire program offered in all campuses
- Aims to make students competent professionals
- Free Transport facility available for main campus
- Scholarships and financial assistance provided.

SEMESTER 5

Power Electronics & Drives, Numerical Methods and Analysis, Microprocessor and Microcontroller, Theory of Machines, Computer Aided Manufacturing, Signal Processing & Systems

SEMESTER 6

Design of Machine Elements, Robotics & Control, Hydraulics and Pneumatics, Programmable Logic Controller (PLC), Sensor Systems and Artificial Intelligence, Operations and Quality Management

SEMESTER 7

Mechatronics System Design, Embedded Systems, Fluid Power System and Factory Automation, Manufacturing Information Systems, Process Control Description

SEMESTER 8

Computer Integrated Manufacturing, Robot Applications, Micro Electromechanical Systems, Machine Vision, Senior Design Project

DISCLAIMER

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.

ADMISSION REQUIREMENTS

For admission to the BS Mechatronics program, the candidate must have completed Intermediate with minimum 45% / A Levels (Minimum three Papers) or equivalent from a recognized institution.

FACULTY

Most Biztek faculty have PhDs and postgraduate degree with years of experience in the academics and corporate world. Detail of faculty qualifications and experience can be found on the Biztek website.



**Institute of
Business & Technology**

Shara-e-Faisal Campus (EDC)

Direct: 021-34301087

Cell: 0332-2277763

0332-2273358

Pabx: 021-34301085-8

Gulshan Campus

Direct: 021-34969987

Cell: 0332-2291994

0332-9964656

Pabx: 021-34969984-7

Nazimabad Campus

Direct: 021-36617948

Cell: 0332-2641371

0332-2189746

Pabx: 021-36617946-49

Main Campus

Direct: 021-35120461

Cell: 0332-3340807

0332-2313077

Pabx: 021-35091871-3