

BS Computer Sciences

The basic intention of an academic program in Computer Science is to develop the student's critical professional thinking and intuition. The Computer Science curriculum is expected to provide environments to put into practice, the principles and techniques learnt during the course of implementation of academic program.

Duration: 4 Years
Number of Courses: 44
Total Credit Hours: 132

SEMESTER 1

Introduction to Computing, Programming Fundamentals, Calculus and Analytical Geometry, Pakistan Studies and Islamic Studies, Oral and Presentation Skills, Physics I

SEMESTER 2

Object Oriented Programming, Multivariable Calculus, English Writing Skills, Statistics, Digital Logic and Design, Introduction to IT

SEMESTER 3

Data Structures and Algorithms, Technical Report Writing, Discrete Mathematic Structures, Linear Algebra, Database Management System

SEMESTER 4

Operating Systems, Differential Equations, Computer Organization and Assembly Language, Software Engineering-I, Web Engineering-I

DISCLAIMER

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

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

Computer Communication and Networks, Theory of Automata & Formal Languages, Computer Architecture, Human Computer Interaction, Web Engineering II

SEMESTER 6

Compiler Construction, Computer Graphics, Numerical Computing, Design and Analysis of Algorithms, System Programming

SEMESTER 7

Final Year Project (Project Implementation), Research Report (Elective), Data and Network Security, Elective – III, Elective – IV

SEMESTER 8

Final Year Project (Project Proposal), Professional Ethics, Digital Signal Processing, Elective – I, Elective – II

ELECTIVES

Simulation and modelling, Telecommunication Systems, Wireless Networks, Advanced Compiler Design-I, Advanced Compiler Design-II, Advanced Computer Architecture, Artificial Neural Network, Computer Aided Instructions, Computer Vision, Control Systems and Robotics, Data Warehousing and Data Mining, Decision Support System Architecture, Digital Image Processing, Digital Signal Processing, Distributed Computing, Distributed Database Systems, Expert Systems, Fuzzy Logic, Intelligent Systems Design, Microprocessor Interfacing, Numerical and Symbolic Computing, Operations Research, Principles of Programming Languages, Problem Solving and Advanced Algorithm Analysis

ADMISSION REQUIREMENTS

For admission to the BS Computer Sciences 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