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| **Computer Science and Engineering**  Bangladesh University of Engineering and Technology | | |
| **CORE: CSE** | | |
| 01 | CSE | Introduction to Computer Systems |
| 02 | CSE | Discrete Mathematics |
| 03 | CSE | Structured Programming Language (with Sessional) |
| 04 | CSE | Object Oriented Programming (with Sessional) |
| 05 | CSE | Data Structure (with Sessional) |
| 06 | CSE | Digital Logic Design (with Sessional) |
| 07 | CSE | Algorithms (with Sessional) |
| 08 | CSE | Digital Electronics and Pulse Techniques (with Sessional) |
| 09 | CSE | Theory of Computation |
| 10 | CSE | Assembly Language Programming Sessional |
| 11 | CSE | Technical Writing and Presentation Sessional |
| 12 | CSE | Database (with Sessional) |
| 13 | CSE | Computer Architecture |
| 14 | CSE | Software Engineering and Information System Design (with Sessional) |
| 15 | CSE | Compiler (with Sessional) |
| 16 | CSE | Data Communication - 1 |
| 17 | CSE | Mathematical Analysis for Computer Science |
| 18 | CSE | Operating System (with Sessional) |
| 19 | CSE | Microprocessor and Microcontrollers (with Sessional) |
| 20 | CSE | Numerical Method |
| 21 | CSE | Computer Network (with Sessional) |
| 22 | CSE | Software Development Sessional |
| 23 | CSE | Artificial Intelligence (with Sessional) |
| 24 | CSE | Digital System Design (with Sessional) |
| 25 | CSE | Computer Graphics (with Sessional) |
| 26 | CSE | Project and Thesis 1 |
| 27 | CSE | Project and Thesis 2 |
| **CORE: SCINECT AND TECHNOLOGY** | | |
| 01 | MATH | Differential Calculus and Co-ordinate Geometry |
| 02 | MATH | Integral Calculus, Ordinary and Partial Differential Equations, Series Solutions |
| 03 | MATH | Complex Variable and Statistics |
| 04 | MATH | Matrices, Vectors, Fourier Analysis, and Laplace Transforms |
| 05 | PHY | Heat and Thermodynamics, Structure of Matter, Waves and Oscillations, Physical Optics (with Sessional) |
| 06 | CHE | Chemistry |
| 07 | CHE | Organic Quantitative Analysis Sessional |
| 08 | EEE | Introduction to Electrical Engineering (with Sessional) |
| 09 | EEE | Electronic Devices and Circuits (with Sessional) |
| 10 | EEE | Electrical Drives and Instrumentation (with Sessional) |
| 11 | ME | Basic Mechanical Engineering |
| 12 | ME | Mechanical Engineering Drawing -1 Sessional |
| 13 | IPE | Industrial Management |
| **ELECTIVE 1 (Any One Course)** | | |
| 01 | CSE | Basic Graph Theory |
| 02 | CSE | Basic Multimedia Theory |
| 03 | CSE | Digital Image Processing |
| 04 | CSE | Simulation & Modeling |
| 05 | CSE | Fault Tolerant System |
| **ELECTIVE 2 (Any Two Courses)** | | |
| 01 | CSE | Network and Communications - Data Communication 2 (with Sessional) |
| 02 | CSE | Network and Communications - Wireless Networks (with Sessional) |
| 03 | CSE | Theoretical Computer Science - Algorithm Engineering (with Sessional) |
| 04 | CSE | Theoretical Computer Science - Computational Geometry (with Sessional) |
| 05 | CSE | Artificial Intelligence - Machine Learning (with Sessional) |
| 06 | CSE | Artificial Intelligence - Pattern Recognition (with Sessional) |
| 07 | CSE | Hardware - Computer Interfacing (with Sessional) |
| 08 | CSE | Hardware - VLSL Design (with Sessional) |