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| **Computer Science and Engineering**  Bangladesh University of Engineering and Technology | | |
| **Semester 01** | | |
| 01 | CSE | Introduction to Computer Systems |
| 02 | EEE | Introduction to Electrical Engineering |
| 03 | MATH | Differential Calculus and Co-ordinate Geometry |
| 04 | ME | Basic Mechanical Engineering |
| 05 | PHY | Heat and Thermodynamics, Structure of Matter, Waves and Oscillations, and Physical Optics |
| **Semester 02** | | |
| 06 | CSE | Discrete Mathematics |
| 07 | CSE | Structured Programming Language |
| 08 | CHEM | Chemistry and Organic Quantitative Analysis |
| 09 | HUM | English and Developing English Skill Laboratory |
| 10 | MATH | Integral Calculus, Ordinary and Partial Differential Equations, and Series Solutions |
| **Semester 03** | | |
| 11 | CSE | Object Oriented Programming |
| 12 | CSE | Data Structure |
| 13 | CSE | Digital Logic Design |
| 14 | EEE | Electronic Devices and Circuits |
| 15 | MATH | Complex Variable and Statistics |
| **Semester 04** | | |
| 16 | CSE | Algorithms |
| 17 | CSE | Digital Electronics and Pulse Techniques |
| 18 | CSE | Theory of Computation |
| 19 | CSE | Assembly Language Programming |
| 20 | EEE | Electrical Drives and Instrumentation |
| 21 | MATH | Matrices, Vectors, Fourier Analysis, and Laplace Transforms |
| **Semester 05** | | |
| 22 | CSE | Technical Writing and Presentation |
| 23 | CSE | Database |
| 24 | CSE | Computer Architecture |
| 25 | CSE | Software Engineering and Information System Design |
| 26 | CSE | Compiler |
| 27 | CSE | Data Communication – 1 |
| **Semester 06** | | |
| 28 | CSE | Mathematical Analysis for Computer Science |
| 29 | CSE | Operating System |
| 30 | CSE | Microprocessor |
| 31 | CSE | Numerical Method |
| 32 | CSE | Computer Network |
| 33 | CSE | Software Development |
| **Semester 07** | | |
| 34 | CSE | Artificial Intelligence |
| 35 | CSE | Digital System Design |
| 36 | CSE | Fault Tolerant System |
| CSE | Basic Graph Theory |
| CSE | Digital Image Processing |
| CSE | Simulation & Modeling |
| 37 | HUM | Business Law |
| 38 | IPE | Industrial Management |
| **Semester 08** | | |
| 39 | CSE | Computer Graphics |
| 40 | CSE | Data Communication 2 |
| CSE | Wireless Networks |
| CSE | Algorithm Engineering |
| CSE | Computational Geometry |
| 41 | CSE | Machine Learning |
| CSE | Pattern Recognition |
| CSE | Computer Interfacing |
| CSE | VLSL Design |
| 42 | HUM | Economics |
| 43 | HUM | Financial and Managerial Accounting |

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| **Electrical & Electronic Engineering**  Bangladesh University of Engineering and Technology | | |
| **ELECTRICAL AND ELECTROIC CORE** | | |
| 01 | EEE | Electrical Circuits 1 |
| 02 | EEE | Electronics Circuits 1 |
| 03 | CSE | Structured Programming |
| 04 | EEE | Electrical Services Design |
| 05 | EEE | Electrical Circuits 2 |
| 06 | EEE | Electronics Circuits 2 |
| 07 | EEE | Numerical Analysis for Electrical Engineering |
| 08 | EEE | Electrical Measurements and Instrumentation |
| 09 | EEE | Electrical Machines 1 |
| 10 | EEE | Digital Logic Design |
| 11 | EEE | Signals and Systems |
| 12 | EEE | Electrical Machines 2 |
| 13 | EEE | Electromagnetic Fields and Waves |
| 14 | EEE | Power System Engineering |
| 15 | EEE | Telecommunication Engineering 1 |
| 16 | EEE | Electronic Properties of Materials |
| 17 | EEE | Digital Signal Processing |
| 18 | EEE | Electronics Circuits 3 |
| 19 | EEE | Microprocessor and Interfacing |
| 20 | EEE | Introduction to Control Systems |
| 21 | EEE | Engineering and Professional Ethics |
| **GENERAL SCIENCE** | | |
| 22 | MAT | Differential and Integral Calculus |
| 23 | MAT | Differential Equations and Special Functions |
| 24 | MAT | Co-ordinate Geometry and Vector Analysis |
| 25 | MAT | Linear Algebra |
| 26 | MAT | Complex Variables and Mathematical Transforms |
| 27 | PHY | Mechanics, Waves & Thermodynamics |
| 28 | PHY | Electricity, Magnetism & Physical Optics |
| 29 | CHE | Introduction to Chemistry |
| 30 | STA | Statistics and Probability |
| **ELECTRONIC** | | |
| 31 | EEE | Semiconductor Devices |
| 32 | EEE | Quantum Phenomena in Nanostructures |
| 33 | EEE | Theory of Semiconductor Devices |
| 34 | EEE | Fundamentals of Nanotechnology |
| 35 | EEE | Optoelectronics |
| 36 | EEE | Semiconductor Processing and Fabrication |
| 37 | EEE | VLSI Circuits & Systems |
| 38 | EEE | Analog Integrated Circuits |
| 39 | EEE | Biomedical Electronics |
| **DIGITAL ELECTRONICS** | | |
| 40 | CSE | Advanced Logic Design |
| 41 | CSE | Microprocessor Based System Design |
| 42 | CSE | Computer Networks |
| 43 | CSE | Computer Architecture |
| 44 | CSE | Multimedia System Design |
| 45 | CSE | Data Structure and Algorithm |
| **COMMUNICATION** | | |
| 46 | CE | RF & Microwave Engineering |
| 47 | CE | Digital Communications |
| 48 | CE | Wireless & Mobile Communications |
| 49 | CE | Fiber Optics |
| 50 | CE | Digital Image Processing |
| 51 | CE | Telecommunication Engineering 2 |
| **ELECTRICAL POWER** | | |
| 52 | PE | Power Station |
| 53 | PE | Special Machines |
| 54 | PE | High Voltage Engineering |
| 55 | PE | Power Electronics |
| 56 | PE | Switchgear & Protective Relays |
| 57 | PE | Renewable Energy |
| 58 | PE | Power Systems Operation & Reliability |