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

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