

# Bachelor of Computer Science and Engineering

**Table 1: Obligatory Modules for Bachelor of Science in Computer Science and Engineering**

Module	Module Name
CSE.111	Introduction to Computer Systems
CSE.112	Introduction to Digital Electronics
CSE.113	Differential and Integral Calculus
CSE.114	Bangladesh Studies
CSE.115	Structured Programming Using C
CSE.116	Physics
CSE.121	Linear Algebra & Co-ordinate Geometry
CSE.122	Digital Logic Design
CSE.123	Chemistry
CSE.124	Communicative English
CSE.125	Principles of Accounting
CSE.126	Discrete Mathematics
CSE.211	Electrical Circuits
CSE.212	Principles of Economics
CSE.213	Statistical Methods & Probability
CSE.214	Electronic Devices & Circuits
CSE.215	Differential Equations & Vector Analysis
CSE.216	Object Oriented Programming
CSE.221	Computer Organization & Architecture
CSE.222	Principles of Management
CSE.223	Complex Variables & Transforms
CSE.224	Data Structures
CSE.225	Data & Telecommunication
CSE.226	System Analysis and Design
CSE.311	Numerical Methods
CSE.312	Law & Ethics in Engineering Practice
CSE.313	Microprocessor, Microcontroller, Assembly
CSE.314	Database Management Systems
CSE.315	Algorithm Design & Analysis
CSE.321	Elective (one from E1)
CSE.322	Operating Systems
CSE.323	Computer Networks
CSE.324	Software Engineering
CSE.325	Compiler Design
CSE.411	Elective (one from E2)
CSE.412	Peripherals & Interfacing
CSE.413	Simulation and Modelling
CSE.414	Computer Graphics
CSE.415	Artificial Intelligence & Neural Networking
CSE.421	Digital Image Processing
CSE.422	E-Commerce and Web Engineering
CSE.423	Digital Signal Processing
CSE.424	Bachelor Thesis
<b>Total Credit Hours: 165</b>	

**Table 2: Elective Modules for CSE**

Module Code	Course Name
<b>Elective 1 (E1)</b>	
CSE-E321-1	Theory of Computing
CSE-E321-2	Management Information System
<b>Elective 2 (E2)</b>	
CSE-E411-a	Parallel and Distributed Processing (Theory & Lab)
CSE-E411-b	Cryptography & Network Security (Theory & Lab)
CSE-E411-c	VLSI Design and Testing (Theory & Lab)
CSE-E411-d	Wireless Networks (Theory & Lab)
CSE-E411-e	Cloud Computing (Theory & Lab)

