Department of Computer Science and Engineering (CSE)
University of Dhaka
DEGREE Requirements - 150 Credits, Academic Session 2023-2024

1st Year (35 Credits)

Semester I
- CSE 1101 Discrete Mathematics (3.0)
- CSE 1103 Computational Problem Solving (3.0)
- EEE 1105 Electrical Circuits (3.0)
- MATH 1107 Differential and Integral Calculus (3.0)
- HUM 1109 History of Emergence of Bangladesh (2.0)
- CSE 1104 Computational Problem Solving Lab (1.5)
- EEE 1106 Electrical Circuits Lab (0.75)

Semester II
- CSE 1201 Structured Programming (3.0)
- CSE 1203 Digital Logic Design (3.0)
- PHY 1205 Physics (3.0)
- MATH 1207 Linear Algebra (3.0)
- EEE 1209 Electronic Devices and Circuits (3.0)
- CSE 1202 Structured Programming Lab (1.5)
- CSE 1204 Digital Logic Design Lab (0.75)
- PHY 1206 Physics lab (0.75)
- EEE 1210 Electronic Devices and Circuits Lab (0.75)

2nd Year (39 Credits)

Semester I
- CSE 2101 Data Structure and Algorithm (3.0)
- CSE 2103 Object Oriented Design and Programming (3.0)
- CSE 2105 Computer Architecture and Microprocessor (3.0)
- MATH 2107 Differential Equations, Laplace Transform and Fourier Analysis (3.0)
- CSE 2109 Data and Telecommunication (3.0)
- CSE 2102 Data Structure and Algorithm Lab (1.5)
- CSE 2104 Object Oriented Design and Programming Lab (1.5)
- CSE 2106 Microprocessor and Assembly Language Lab (1.5)

Semester II
- CSE 2201 Database Management System (3.0)
- CSE 2203 Design and Analysis of Algorithm (3.0)
- CSE 2205 Microcontroller and Embedded System (3.0)
- STAT 2207 Probability and Statistics (3.0)
- CSE 2209 Numerical Methods (3.0)
- CSE 2202 Database Management System Lab (1.5)
- CSE 2204 Design and Analysis of Algorithm Lab (1.5)
- CSE 2206 Microcontroller and Embedded System Lab (1.5)

3rd Year (40.5 Credits)

Semester I
- CSE 3101 Software Engineering (3.0)
- CSE 3103 Web Engineering and Technology (3.0)
- CSE 3105 Algorithm Engineering (3.0)
- STAT 3107 Random Process (3.0)
- CSE 3109 Operating System (3.0)
- CSE 3102 Software Design and Development Project Lab (1.5)
- CSE 3104 Web Engineering and Technology Lab (1.5)
- CSE 3110 Operating System Lab (1.5)

Semester II
- CSE 3201 Computer Network (3.0)
- CSE 3203 Artificial Intelligence (3.0)
- CSE 3205 Information Security (3.0)
- CSE 3207 Theory of Computation (3.0)
- Elective-I (3.0)
- CSE 3202 Computer Network Lab (1.5)
- CSE 3204 Artificial Intelligence Lab (1.5)
- CSE 3206 Information Security Lab (1.5)
- Elective-I Lab (1.5)

4th Year (35.5 Credits)

Semester I
- CSE 4110 Project - Part A (2.0)
- CSE 4101 Machine Learning (3.0)
- CSE 4103 Internet of Things (3.0)
- HUM 4105 Professional Ethics and Environment (2.0)
- CSE 4102 Machine Learning Lab (1.5)
- CSE 4104 Internet of Things Lab (1.5)
- CSE 4100 Internship (3.0)

Semester II
- CSE 4210 Project - Part B (4.0)
- CSE 4201 Parallel and Distributed Systems (3.0)
- BUS 4205 ICT Business Entrepreneurship (2.0)
- MIS 4203 IT Project Management (2.0)
- Elective-II (3.0)
- Elective-III (3.0)
- CSE 4202 Parallel and Distributed Systems Lab (1.5)
- Elective-II Lab (1)

Legend
- CSE Core Courses
- Mathematics/Statistics Courses
- Business/Humanities/GED Courses
- Elective
- Project
- Internship
- Prerequisite