

## LIST OF COURSES: DEPARTMENT OF CSE

<b>English Courses (Three courses-9 credit hours)</b>	
ENG-1111	English Reading
ENG-1213	English Composition / Writing
ENG-1315	Spoken English
<b>List of General Education Courses (any five courses-15 credit hours)</b>	
ART-1111	Bangladesh Studies
ART-1213	Introduction to Sociology
ART- 2213	Professional Ethics
ECON-2311	Principals of Economics
MGT-2315	Introduction to Business
ACC-2111	Principles of Accounting
MGT-3211	Industrial Management
ART-1215	Public Administration
ART-1217	Political Science
<b>Basic Science Courses (Three courses-9 credit hours)</b>	
PHY-1311	General Physics I
PHY-1312	General Physics: Sessional
PHY-2213	General Physics II
PHY-2214	General Physics: Sessional
CHEM-2311	Chemistry
CHEM-2312	Chemistry: Sessional
<b>Mathematics Courses (5 courses-15 credit hours)</b>	
MATH-1111	Differential and Integral Calculus
MATH-1213	Linear Algebra & Matrix
MATH-1315	Ordinary and Partial Differential Equations
MATH-2111	Co-Ordinate Geometry and Vector Analysis
MATH-2213	Probability and Statistics
<b>Other Engineering Discipline Courses (18 credit hours)</b>	
EEE-1111	Electrical Circuits I
EEE-1213	Electrical Circuits II
EEE-1214	Electrical Circuits Laboratory
EEE-1315	Electronics I
EEE-1316	Electronics Circuit Simulation Laboratory
CE-2110	Engineering Drawing: Sessional
EEE-2317	Digital Electronics
EEE-2318	Digital Electronics Laboratory
EEE-3221	Microprocessor, Assembly Language & Computer Interfacing
EEE-3222	Microprocessor, Assembly Language & Computer Interfacing: Sessional
EEE-3327	Control System I
EEE-3328	Control System I Laboratory
<b>List of Core Courses</b>	
CSE-1111	Introduction to Computers
CSE-1112	Introduction to Computers: Sessional
CSE-1213	Computer Programming
CSE-1214	Computer Programming: Sessional
CSE-1315	Discrete Mathematics
CSE-2111	Numerical Methods
CSE-2112	Numerical Methods: Sessional
CSE-2113	Object Oriented Programming I
CSE-2114	Object Oriented Programming I: Sessional
CSE-2215	Data Structures
CSE-2216	Data Structures: Sessional
CSE-2217	Computer Algorithms & Complexity
CSE-2218	Computer Algorithms & Complexity lab
CSE-2319	Database Management System
CSE-2320	Database Management System: Sessional
CSE-3111	Operating System
CSE-3112	Operating System: Sessional

CSE-3113	Data Warehousing & Data Mining
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CSE-3115	Computer Networks
CSE-3117	Computer Networks: Sessional
CSE-3118	Computer Architecture & Design

CSE-3219	Distributed Systems
CSE-3220	Distributed Systems: Sessional
CSE-3221	Software Engineering
CSE-3223	Internet, Intranet & Extranet Applications
CSE-3224	Internet, Intranet & Extranet Applications Sessional
CSE-3325	Open Source Tools & Techniques
CSE-3326	Open Source Tools & Techniques: Sessional
CSE-3327	Theory of Computation
CSE-3329	Object Oriented Software Development Using UML
CSE-3330	Object Oriented Software Development Using UML: Sessional
CSE-4111	Management Information System
CSE-4113	System Analysis, Design and Development
CSE-4114	System Analysis, Design and Development: Sessional
CSE-4115	Compiler Design & Construction
CSE-4116	Compiler Design & Construction: Sessional
CSE-4800	Project/Thesis

**List of Specialized Elective Courses**

**Option-I** (Any two courses and Sessional, if any, to be taken)

CSE-4111	Artificial Intelligence with Prolog
CSE-4112	Artificial Intelligence with Prolog: Sessional
CSE-4113	Data Communication
CSE-4114	Data Communication Sessional
ECE-4117	Optical Fiber Communication
ECE-4221	Cellular Mobile & Satellite Communication
CSE-4121	Simulation & Modeling
CSE-4122	Simulation & Modeling: Sessional
CSE-4131	Neural Network & Fuzzy Logic
CSE-4141	Advanced Algorithms
CSE-4151	Graph Theory & Applications
CSE-4152	Graph Theory & Applications: Sessional
CSE-4161	Computer Aided Design & Manufacturing
CSE-4162	Computer Aided Design & Manufacturing

**List of Specialized Elective Courses**

**Option-II** (Any three courses and their Sessionals, if any, to be taken)

CSE-4231	Computer Graphics & Image processing
CSE-4232	Computer Graphics & Image processing: Sessional
CSE-4241	Java Programming
CSE-4242	Java Programming: Sessional
CSE-4251	Computer Security & Cryptography
CSE-4261	Multimedia Communications
EEE-4127	VLSI I
EEE-4128	VLSI I Laboratory
CSE-4271	Advanced Operating Systems
CSE-4272	Advanced Operating Systems: Sessional
CSE-4281	Decision Support Systems
CSE-4282	Decision Support Systems: Sessional
CSE-4291	Introduction to Robotics
CSE-4292	Introduction to Robotics: Sessional

**\*For any further information Please Contact the Department of CSE & EEE, Leading University Sylhet, Bangladesh.**