

**COURSE REQUIRMENTS FOR UNDERGRADUATE COMPUTER SCIENCE AND
ENGINEERING STUDENTS**

(1st SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-111	Introduction of Computer System	3	-	3
CSE-112	Programming Language	3	-	3
CSE-113	Programming Language Practical	-	3	1.5
CSE-114	Physics (Electricity & Magnetism)	3	-	3
CSE-115	Differential Calculus & Co-ordinate Geometry	3	-	3
CSE-116	English	3	-	3
	Total=	15	3	16.5

(2nd SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-121	Data Structure	3	-	3
CSE-122	Data Structure Practical	-	3	1.5
CSE-123	Introduction to Electrical Engineering	3	-	3
CSE-124	Introduction to Electrical Engineering Practical	-	3	1.5
CSE-125	Integral Calculus & Differential Equation	3	-	3
CSE-126	Statistics and Probability	3	-	3
CSE-127	Discrete Mathematics	3	-	3
	Total=	15	6	18

(3rd SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-211	Object Oriented Programming	3	-	3
CSE-212	OO Programming Language Practical	-	3	1.5
CSE-213	Operating System	3	-	3
CSE-214	Digital Logic Design	3	-	3
CSE-215	Digital Logic Design Practical	-	3	1.5
CSE-216	Mathematics for CSE	3	-	3
CSE-217	Electronic Devices and Circuits	3	-	3
CSE-218	Electronic Devices and Circuits Practical	-	3	1.5
CSE-219	Basic Accounting	3	-	3
	Total=	18	9	22.5

(4th SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-221	Algorithm Design	3	-	3
CSE-222	Algorithm DesignPractical	-	3	1.5
CSE-223	Database Management System	3	-	3
CSE-224	Database Management SystemPractical	-	3	1.5
CSE-225	Computer Organization and Architecture	3	-	3
CSE-226	Data Communications	3	-	3
CSE-227	Economics	3	-	3
	Total=	15	6	18

(5th SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-311	Theory of Computation	3	-	3
CSE-312	Microprocessor & Assembly Language	3	-	3
CSE-313	Microprocessor & Assembly LanguagePractical	-	3	1.5
CSE-314	Engineering Mathematics	3	-	3
CSE-315	Sociology	3	-	3
CSE-316	Technical Writing & Communications	3	-	3
	Total=	15	3	16.5

(6th SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-321	Software Engineering	3	-	3
CSE-322	Software EngineeringPractical	-	3	1.5
CSE-323	Numerical Analysis	3	-	3
CSE-324	Computer Graphics & Multimedia	3	-	3
CSE-325	Computer Graphics & Multimedia Practical	-	3	1.5
CSE-326	Compiler Design	3	-	3
CSE-327	Compiler Design Practical	-	3	1.5
CSE-328	System Analysis and Design	3	-	3
	Total=	15	9	19.5

(7th SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-411	Computer Networking	3	-	3
CSE-412	Computer Networking Practical	-	3	1.5
CSE-413	Artificial Intelligence & Neural Network	3	-	3
CSE-414	Parallel and Distributed Processing	3	-	3
CSE-415	Peripheral and Interfacing	3	-	3
CSE-416	Peripheral and Interfacing Practical	-	2	1
CSE-417	Digital Signal Processing	3	-	3
	Total=	15	5	17.5

(8th SEMESTER)

Course Name	Course Title	Hours/Week		Credit
		Theory	Practical	
CSE-421	Web Engineering	3	-	3
CSE-422	Web Engineering Practical	-	3	1.5
CSE-423	Computer and Network Security	3	-	3
CSE-42X	Elective Course	3	-	3
CSE-499	*Project	-	12	6
	Total=	9	15	16.5

Total Credit: 145

** Project work must be started in 7th semester

CSE-42X: Optional Course (Any one)

CSE-324 Image Processing

CSE-325 VLSI Design

CSE-326 Simulation and Modeling

CSE-427 E-Commerce