Department of Computer Science and Engineering

Details of Institute Core (IC) Courses

Institute Core (IC) Courses				
S. No.	Course Code	Course Name	L-T-P	Course Type
1	CSI101	Computer Programming	2-1-0	Modular
2	CSI102	Computer Programming Lab	0-0-2	Modular

Details of Departmental Compulsary (DC) Courses

Departmental Compulsary (DC) Courses				
S. No.	Course Code	Course Name	L-T-P	Course Type
1	CSC201	Data Structures	3-0-0	Theory
2	CSC202	Discrete Mathematics	3-0-0	Theory
3	CSC203	Computer Organization	3-0-0	Theory
4	CSC204	Data Structures Lab	0-0-2	Practical
5	CSC205	Computer Organization Lab	0-0-2	Practical
6	CSC206	Algorithm Design & Analysis	3-0-0	Theory
7	CSC207	Computer Architecture	3-0-0	Theory
8	CSC208	Theory of Computation	3-0-0	Theory
9	CSC209	Operating Systems	3-0-0	Theory
10	CSC210	Algorithm Design & Analysis Lab	0-0-2	Practical
11	CSC211	Operating Systems Lab	0-0-2	Practical
12	CSC301	Database Management Systems	3-0-0	Theory
13	CSC302	Compiler Design	3-0-0	Theory
14	CSC303	Database Management Systems Lab	0-0-2	Practical
15	CSC304	Compiler Design Lab	0-0-2	Practical
16	CSC305	Computer Network	3-0-0	Theory
17	CSC306	Software Engineering	3-0-0	Theory
18	CSC307	Computer Networks Lab	0-0-2	Theory
19	CSC308	Software Engineering Lab	0-0-2	Practical
20	CSC401	Project - I	0-0-0 (6)	Non-Contact
21	CSC402	Project - II	0-0-0 (6)	Non-Contact
22	CSC501	Advanced Data Structures & Algorithms	3-0-0	Theory
23	CSC502	Advanced DBMS	3-0-0	Theory
24	CSC503	Algorithmic Graph Theory	3-0-0	Theory
25	CSC504	Computing Techniques and Mathematical Tools	3-0-0	Theory
26	CSC505	High Performance Computer Architecture	3-0-0	Theory
27	CSC506	Advanced Data Structures & Algorithms Lab	0-0-2	Practical
28	CSC507	Computing Techniques and Mathematical Tools Lab	0-0-2	Practical
29	CSC508	Computing Lab - I	0-0-3	Practical
30	CSC509	Computing Lab - II	0-0-3	Practical
31	CSC510	Interactive Computer Graphics	3-0-0	Theory
32	CSC516	Research Methodology	3-0-0	Theory
33	CSC517	Selected Topics in Algorithms	3-0-0	Theory
34	CSC518	Number Theory and Cryptography	3-0-0	Theory
35	CSC597	Thesis	0-0-0 (36)	Non-Contact
36	CSC598	Thesis	0-0-0 (18)	Non-Contact
37	CSC599	Thesis	0-0-0 (S/X)	Audit
38	CSS401	Internship	0-0-0 (S/X)	Audit

Details of Engineering Science Option (ESO) Courses

Engineering Science Option (ESO) Courses				
S. No.	Course Code	Course Name	L-T-P	Course Type
1	CSE201	Data Structures and Algorithms	3-0-0	Theory
2	CSE202	Object Oriented Programming	3-0-0	Theory

Details of Departmental Elective (DE) Courses

S. No.	Course Code	Course Name	L-T-P	Course Type
		Departmental Elective (DE) Courses		
1	CSD401	Advanced Algorithms	3-0-0	Theory
2	CSD402	Bioinformatics	3-0-0	Theory
3	CSD403	Combinatorics and Graph Theory	3-0-0	Theory
4	CSD404	Computer Graphics	3-0-0	Theory
5	CSD405	Evolutionary Computation	3-0-0	Theory
6	CSD406	Multimedia Systems	3-0-0	Theory
7	CSD407	Network Security	3-0-0	Theory
8	CSD408	VLSI Designs	3-0-0	Theory
9	CSD409	Wireless and Mobile Computing	3-0-0	Theory
10	CSD410	Quantum Computing	3-0-0	Theory
11	CSD501	Algorithms for Bioinformatics	3-0-0	Theory
12	CSD502	Cloud Computing	3-0-0	Theory
13	CSD503	Computational Number Theory	3-0-0	Theory
14	CSD504	Computer Vision	3-0-0	Theory
15	CSD505	Cryptography and Network Security	3-0-0	Theory
16	CSD506	Cryptology	3-0-0	Theory
17	CSD507	Data Compression	3-0-0	Theory
18	CSD508	Distributed Systems	3-0-0	Theory
19	CSD509	Image and Video Processing	3-0-0	Theory
20	CSD510	Information Retrieval	3-0-0	Theory
21	CSD511	Information Theory and Coding	3-0-0	Theory
22	CSD513	Internet of Things	3-0-0	Theory
23	CSD514	Mobile and Wireless Network Security	3-0-0	Theory
24	CSD515	Multimedia Systems and Security	3-0-0	Theory
25	CSD516	Optimization Techniques	3-0-0	Theory
26	CSD517	Parallel Computing	3-0-0	Theory
27	CSD518	Pattern Recognition	3-0-0	Theory
28	CSD519	Software Testing	3-0-0	Theory
29	CSD520	VLSI Design and Testing	3-0-0	Theory
30	CSD521	Wireless Networks	3-0-0	Theory

Details of Open Elective (OE) Courses

S. No.	Course Code	Course Name	L-T-P	Course Type
		Open Elective (OE) Courses		
1	CSO302	Graph Theory	3-0-0	Theory
2	CSO303	Artificial Intelligence	3-0-0	Theory
3	CSO304	Digital Image Processing	3-0-0	Theory
4	CSO403	Internet Technology	3-0-0	Theory
5	CSO404	Cryptography	3-0-0	Theory
6	CSO501	Principles of Artificial Intelligence	3-0-0	Theory
7	CSO502	Data Analytics	3-0-0	Theory
8	CSO503	Data Mining	3-0-0	Theory
9	CSO504	Machine Learning	3-0-0	Theory
10	CSO505	Soft Computing	3-0-0	Theory
11	CSO506	Principles of Blockchain Technologies	3-0-0	Theory
12	CSO507	Deep Learning	3-0-0	Theory
13	CSO508	Building Software Systems	3-0-0	Theory
14	CSO509	Advanced Software Engineering	3-0-0	Theory
15	CSO801	Artificial Intelligence (Module I)	0-2-0	online