

Curriculum Structure

CSE Department

3rd Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	ESC 301	Analog and Digital Electronics	3	0	0	3	3
2	PCC-CS301	Data Structure & Algorithms	3	0	0	3	3
3	PCC-CS302	Computer Organisation	3	0	0	3	3
4	BSC 301	Mathematics-III (Differential Calculus)	2	0	0	2	2
5	HSMC 301	Economics for Engineers (Humanities-II)	3	0	0	3	3
		TOTAL				14	14

Practical:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PCC-CS393	IT Workshop (Sci Lab/ MATLAB/ Python/ R)	0	0	4	4	2
2	ESC 391	Analog and Digital Electronics	0	0	4	4	2
3	PCC-CS391	Data Structure & Algorithms	0	0	4	4	2
4	PCC-CS392	Computer Organisation	0	0	4	4	2
		TOTAL				16	8

4th Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PCC- CS401	Discrete Mathematics	3	1	0	4	4
2	PCC-CS 402	Computer Architecture	3	0	0	3	3

3	PCC- CS403	Formal Language & Automata Theory	3	0	0	3	3
4	PCC- CS404	Design & Analysis of Algorithms	3	0	0	3	3
5	BSC 401	Biology	2	1	0	3	3
6	MC401	Environmental Sciences	1	-	-	1	1
		TOTAL				17	17

Practical:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PCC-CS 492	Computer Architecture	0	0	4	4	2
2	PCC- CS494	Design & Analysis of Algorithms	0	0	4	4	2
		TOTAL				8	4

5th Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	ESC501	Software Engineering	3	0	0	3	3
2	PCC- CS501	Compiler Design	3	0	0	3	3
3	PCC- CS502	Operating Systems	3	0	0	3	3
4	PCC- CS503	Object Oriented Programming	3	0	0	3	3
5	HSMC-501	Introduction to Industrial Management (Humanities III)	3	0	0	3	3
6	PEC-IT 501A/ B/ C/ D	(Elective-I) Theory of Computation/ Artificial Intelligence/ Advanced Computer Architecture/ Computer Graphics	3	0	0	3	3
7	MC- CS501A/ B	Constitution of India/ Essence of Indian Knowledge Tradition	-	-	-	-	0
		TOTAL				18	18

Practical:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	ESC- 591	Software Engineering		0	4	4	2
2	PCC- CS592	Operating Systems		0	4	4	2
3	PCC- CS593	Object Oriented Programming		0	4	4	2
		TOTAL				12	6

6th Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PCC- CS601	Database Management Systems	3	0	0	3	3
2	PCC- CS602	Computer Networks	3	0	0	3	3
3	PEC- IT601A/ B/ C/ D	(Elective-II) Advanced Algorithms/ Distributed Database Management System/ Signals & Systems / Image Processing	3	0	0	3	3
4	PEC- IT602A/ B/ C/ D	(Elective-III) Parallel and Distributed Algorithms/ Data Warehousing & Data Mining/ Human Computer Interaction/ Pattern Recognition	3	0	0	3	3
5	OEC- IT601A/ B	(Open Elective-) Numerical Methods/ Human Resource Development and Organizational Behavior	3	0	0	3	3
6	PROJ- CS601	Research Methodology	3	0	0	3	3
		TOTAL				18	18

Practical:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PCC- CS691	Database Management Systems	0	0	4	4	2

2	PCC-CS692	Computer Networks	0	0	4	4	2
		TOTAL				8	4

7th Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		
1	PEC-CS701A/ B/ C/ D/ E	(Elective-IV) Quantum Computing/ Cloud Computing/ Digital Signal Processing/ Multi-agent Intelligent Systems/ Machine learning	3	0	0	3	3
2	PEC-CS702A/ B/ C/ D/ E	(Elective-V) Neural Networks and Deep Learning/ Soft Computing/ Ad-Hoc and Sensor Networks/ Information Theory and Coding/ Cyber Security	3	0	0	3	3
3	OEC-CS701A/ B/ C	(Open Elective-II) Operations Research/ Multimedia Systems/ Introduction to Philosophical Thoughts	3	0	0	3	3
4	HSMC 701	Project Management and Entrepreneurship	2	1	0	3	3
	PROJ-CS781	Project-II	0	0	12	12	6
		TOTAL				24	18

8th Semester

Theory:

Sl. No.	Code	Course Title	Hours per week			Total Contact Hours	Credits
			L	T	P		

1	PEC- CS801A/ B/ C/ D/ E	(Elective-VI) Signals and Networks/ Cryptography & Network Security/ Speech and Natural Language Processing/ Web and Internet Technology/ Internet of Things	3	0	0	3	3
2	OEC- CS801A/ B/ C/ D/ E	Open Elective-III Big Data Analysis/ Cyber Law and Ethics/ Mobile Computing/ Robotics/ Soft Skill & Interpersonal Communication	3	0	0	3	3
3	OEC- CS802A/ B/ C	(Open Elective-IV) E- Commerce and ERP/ Micro- electronics and VLSI Design/ Economic Policies in India	3	0	0	3	3
4	PROJ- CS881	Project-III	0	0	12	12	6
		TOTAL				21	15