

Scheme of Teaching and Examination for B.E (CS&E)

SEMESTER: III

Sl. No	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs
				L	T	P	TOTAL		CIE	SEE	Total	
1	MA310	Fourier series, integral transforms and applications	Maths	4	0	0	4	4	50	50	100	03
2	CS310	Digital System Design	CSE	3	0	0	3	3	50	50	100	03
3	CS320	Theory of Computation	CSE	4	0	0	4	4	50	50	100	03
4	CS330	Discrete Mathematical structures	CSE	3	0	0	3	3	50	50	100	03
5	CS340	Data Structures	CSE	4	0	0	4	4	50	50	100	03
6	CS350	Object Oriented Programming using JAVA	CSE	3	0	1	4	4	50	50	100	03
7	CS36L	Data Structure Lab	CSE	0	0	1.5	1.5	3	50	--	50	--
8	CS37L	Digital System Design Lab	CSE	0	0	1.5	1.5	3	50	--	50	--
		Total		Total Credits			25		Total Marks		700	

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SEMESTER: IV

Sl. No	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs
				L	T	P	TOTAL		CIE	SEE	Total	
1	MA410	Probability, random variables and stochastic process	Maths	4	0	0	4	4	50	50	100	03
2	CS410	Computer Organization and Architecture	CSE	4	0	0	4	3	50	50	100	03
3	CS420	Compiler Design	CSE	4	0	0	4	4	50	50	100	03
4	CS430	Data Communication	CSE	3	0	0	3	3	50	50	100	03
5	CS440	Design and Analysis of Algorithms	CSE	4	0	0	4	4	50	50	100	03
6	CS450	Operating Systems	CSE	4	0	0	4	4	50	50	100	03
7	CS46L	Design and Analysis of Algorithms Lab	CSE	0	0	1.5	1.5	3	50	--	50	--
8	CS47L	System Programming Lab	CSE	0	0	1.5	1.5	3	50	--	50	--
		Total		Total Credits			26		Total Marks		700	

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SEMESTER: V

Sl. No.	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs
				L	T	P	TOTAL		CIE	SEE	Total	
1	CS510	Linear Algebra	CSE	3	1	0	4	5	50	50	100	03
2	CS520	Software Engineering	CSE	3	0	0	3	3	50	50	100	03
3	CS530	Database Systems	CSE	4	0	0	4	4	50	50	100	03
4	CS540	Computer Network	CSE	4	0	0	4	4	50	50	100	03
5	CS55X	Elective –I	CSE	3	0	1	4	4	50	50	100	03
6	CS56X	Elective –II	CSE	3	0	0	3	3	50	50	100	03
7	CS57L	Database Laboratory	CSE	0	0	1.5	1.5	3	50	--	50	--
8	CS58L	Network Laboratory	CSE	0	0	1.5	1.5	3	50	--	50	--
Total				Total Credits				25	Total Marks			700

Sl.No	Code	Elective-I (4 Credit)
1	CS551	Microprocessors and Microcontrollers
2	CS552	Image processing
3	CS553	Advanced Data Structures and algorithms
4	CS554	Web Technologies
5	CS555	Advanced JAVA

Sl.No.	Code	Elective-II (3 credits)
1	CS561	Innovation, IP management and entrepreneurship
2	CS562	Block Chain Technology
3	CS563	Design of Unix Operating System
4	CS564	Optimization Techniques
5	CS565	Industry 4.0

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SEMESTER: VI

Sl. No	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs
				L	T	P	TOTAL		CIE	SEE	Total	
1	CS610	AI and Machine Learning	CSE	4	0	0	4	4	50	50	100	03
2	CS620	Agile Technologies	CSE	4	0	0	4	4	50	50	100	03
3	CS630	Internet of Things	CSE	4	0	0	4	4	50	50	100	03
4	CS640	Computer Systems Security	CSE	3	0	0	3	3	50	50	100	03
5	CS65X	Elective-III	CSE	4	0	0	4	4	50	50	100	03
6	CS66X	Elective-IV	CSE	2	0	0	2	2	25	25	50	1.5
7	CS67L	IoT Laboratory	CSE	0	0	1.5	1.5	3	50	--	50	--
8	CS68L	Machine Learning Laboratory	CSE	0	0	1.5	1.5	3	50	--	50	--
Total				Total Credits				24	Total Marks			650

Sl.No	Code	Elective-III (4 Credits)
1	CS651	Wireless communication
2	CS652	Big data analytics
3	CS653	Embedded Systems
4	CS654	Cloud Computing
5	CS655	System Simulation and Modeling

Sl.No	Code	Elective-IV (2 Credits)
1	CS661	Social media Analytics and Data Driven Innovation
2	CS662	Ethical Hacking
3	CS663	Principles of programming Languages
4	CS664	Bioinformatics and computational Genomics
5	CS665	Forensics and Cyber Law

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SEMESTER: VII

Sl. No	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs	
				L	T	P	TOTAL		CIE	SEE	Total		
1	CS710	Applications of Data Science	CSE	4	0	0	4	4	50	50	100	03	
2	CS720	Adv. Computer Architecture	CSE	3	0	1	4	4	50	50	100	03	
3	CS73X	Elective-V	CSE	4	0	0	4	4	50	50	100	03	
4	CS74X	Elective-VI	CSE	4	0	0	4	4	50	50	100	03	
5	CS75P	Project Work Phase-I	CSE	0	0	3	3	6	50	--	50	--	
		Total		Total Credits				19		Total Marks		450	

Sl. No	Code	Elective-V (4 Credits)
1	CS731	Software Project Management
2	CS732	Adhoc networks
3	CS733	Advanced Cryptography
4	CS734	Advances in AI
5	CS735	Distributed Computing Systems

Sl. No.	Code	Elective-VI (4 Credits)
1	CS741	Wireless Sensor Networks
2	CS742	Speech Processing
3	CS743	Software Modeling
4	CS744	High Performance Computing
5	CS745	Pattern Recognition

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SEMESTER: VIII

Sl. No	Subject Code	Course Title	Teaching Department	Credits				Contact Hours	Marks			Exam Duration in hrs
				L	T	P	TOTAL		CIE	SEE	Total	
1	CS810	Foreign language	CSE	2	0	0	2	2	25	25	50	1.5
2	CS82X	Elective-VII	CSE	4	0	0	4	4	50	50	100	03
3	CS83X	Elective-VIII	CSE	4	0	0	4	4	50	50	100	03
4	CS84P	Project Work Phase-II	CSE	0	0	6	6	12	100	100	200	03
		Total		Total Credits			16		Total Marks		450	

Sl. No	Code	Elective-VII (4 Credits)
1	CS821	Data Warehouse and Data Mining
2	CS822	Deep Learning Architecture
3	CS823	Network Management
4	CS824	Green Computing
5	CS825	Linux Device Drivers

Sl. No.	Code	Elective-VIII (4 Credits)
1	CS831	Enterprise Application Development
2	CS832	Robotics and automation
3	CS833	Multimedia Computing
4	CS834	Cloud and Cyber Security
5	CS835	Software Quality and Assurance