

Course Scheme and Detailed Syllabus of Minor in CSE for 2024 Batch Onwards

For a minor degree in CSE, students from other departments are required to complete at least 18 credits by opting the courses as per the following.

Semester	Professional Core	Professional Elective
Semester 4	3 Credits	3 Credits
Semester 5	4 Credits	3 Credits
Semester 6		3 Credits
Semester 7	-----	3 Credits

FOURTH SEMESTER

S. No.	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PCC	25B11CI414	Software Engineering	3	0	0	3	3
2	PEC	XXXXXXXX	Discipline Elective – 1	2	0	0	2	2
3	PEC	XXXXXXXX	Discipline Elective – 1 Lab	0	0	2	2	1

FIFTH SEMESTER

S. No.	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PCC	XXXXXXXX	Operating Systems	3	0	0	3	3
2	PCC	XXXXXXXX	Operating Systems Lab	0	0	2	2	1
PROFESSIONAL ELECTIVE								
3	PEC	XXXXXXXX	Discipline Elective – 2	2	0	0	2	2
4	PEC	XXXXXXXX	Discipline Elective – 2 Lab	0	0	2	2	1
OR								
5	PEC	XXXXXXXX	Discipline Elective – 3	2	0	0	2	2
6	PEC	XXXXXXXX	Discipline Elective – 3 Lab	0	0	2	2	1

SIXTH SEMESTER

S. No.	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PEC	XXXXXXXX	Discipline Elective – 4	3	0	0	3	3
OR								
2	PEC	XXXXXXXX	Discipline Elective – 5	3	0	0	3	3

SEVENTH SEMESTER

S. No.	Course			Contact Hours				Credits
	Category	Course Code	Course Title	L	T	P	Total	
1	PEC	XXXXXXX	Discipline Elective – 6	3	0	0	3	3

Bucket Wise Tentative List of Discipline Electives (To be updated time to time)

Discipline Elective – 1 and Discipline Elective – 1 Lab (offered in 4th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Data Analytics using R and Python	2	0	0	2	2
2		Data Analytics using R and Python Lab	0	0	2	2	1
3		Mobile Application Development	2	0	0	2	2
4		Mobile Application Development Lab	0	0	2	2	1
5		Fundamentals of Smart Systems and IoT	2	0	0	2	2
6		Fundamentals of Smart Systems and IoT Lab	0	0	2	2	1

Discipline Elective – 2 and Discipline Elective – 2 Lab (offered in 5th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Fundamentals of Soft Computing	2	0	0	2	2
2		Fundamentals of Soft Computing Lab	0	0	2	2	1
3		Fundamentals of Computer and Cyber Security	2	0	0	2	2
4		Fundamentals of Computer and Cyber Security Lab	0	0	2	2	1
5		Data Mining and Data Warehousing	2	0	0	2	2
6		Data Mining and Data Warehousing Lab	0	0	2	2	1
7		Agile Software Development Process	2	0	0	2	2
8		Agile Software Development Process Lab	0	0	2	2	1
9		IoT Analytics	2	0	0	2	2
10		IoT Analytics Lab	0	0	2	2	1

Discipline Elective – 3 and Discipline Elective – 3 Lab (offered in 5th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Image Processing and Computer Vision	2	0	0	2	2
2		Image Processing and Computer Vision Lab	0	0	2	2	1
3		Introduction to Blockchain Technology	2	0	0	2	2
4		Introduction to Blockchain Technology Lab	0	0	2	2	1
5		Computing for Data Science	2	0	0	2	2
6		Computing for Data Science Lab	0	0	2	2	1
7		Sensor Technology & Android Programming	2	0	0	2	2

8		Sensor Technology & Android Programming Lab	0	0	2	2	1
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Discipline Elective – 4 (offered in 6th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Introduction to Deep Learning	3	0	0	3	3
2		Cryptocurrency Technologies	3	0	0	3	3
3		Information Retrieval and Semantic Web	3	0	0	3	3
4		Cloud Computing Essentials: Azure and AWS	3	0	0	3	3

Discipline Elective – 5 (offered in 6th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Machine Learning and Big Data	3	0	0	3	3
2		Secure Design of Software Systems	3	0	0	3	3
3		Fog and Edge Computing	3	0	0	3	3

Discipline Elective – 6 (offered in 7th Semester)

S. No.	Course Code	Course Title	L	T	P	Total	Credits
1		Machine Learning and Natural Language Processing	3	0	0	3	3
2		Ethical Hacking & Prevention	3	0	0	3	3
3		Introduction to Large Scale Database Systems	3	0	0	3	3
4		Introduction to DevOps	3	0	0	3	3
5		Industrial Automation and IOT	3	0	0	3	3