

SR UNIVERSITY						
Department of Computer Science & Artificial Intelligence						
R25 Course Structure-M.Tech CSE (Computer Science & Engineering)						
I SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25CAI202PC501	Advanced Data Science	2	-	2	3
2	25CAI402PC502	Advanced Data Structures and Algorithms	4	-	2	5
3	25CAI302PC503	Modern Operating System and Computer Networks	3	-	2	4
4	25CAI206CR501	AI Assisted Problem Solving Using Python	2	-	6	5
5	25BUS400RM501	Sustainability, Critical Thinking, Research Methodology and IPR	4	-	0	4
6	25HUM302CR502	Life Skills: Entrepreneurship, Language, Communication and Personality	3	-	2	4
Total			18	0	14	25
II SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25CAI402PC504	Deep Learning and Generative AI	4	-	2	5
2	25CAI302PC505	Database Systems: Design and Implementation	3	-	2	4
3	25CAI302PC506	Cloud Computing for Smart Systems	3	-	2	4
4		Specialization Core	3	-	2	4
5		Specialization Elective	3	-	2	4
6	25HUM204CR503	Aptitude and Reasoning	2	-	4	4
Total			18	0	14	25
III SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25CAI012PR601	Capstone Project	-	-	12	6
2		Program Elective-I	2	0	2	3
3		Program Elective- II	2	0	2	3
4		Open Elective	3	-	-	3
		OR				
	25CAI030PR602	Industrial Project/R&D Project/Industry Internship/Start-up/Externship	-	-	30	15
Total						15
IV SEM						
S.No.	Course Code	Course	Hours / Week			
			L	T	P/D	C
1	25CAI030PR603	Major Project/Industrial Project/R&D Project/Industry Internship/Start-up/Externship	-	-	30	15
Total						15
Total Credits						
80						
Specialization Elective						
1	25CAI302SE501	Web Technologies and Mobile Computing Practices	3	-	2	4
2	25CAI302SE502	Parallel Programming	3	-	2	4
3	25CAI302SE503	High Performance Computing Techniques	3	-	2	4
4	25CAI302SE504	Applied Data Analytics and Visualization	3	-	2	4
5	25CAI302SE505	Immersive Augmented and Virtual Reality	3	-	2	4
6	25CAI302SE506	Machine Intelligence for Drones	3	-	2	4
Specialization Core						
1	25CAI302SC507	Human-Computer Interaction and Design	3	-	2	4
2	25CAI302SC508	Agentic AI and Autonomous Systems	3	-	2	4
3	25CAI302SC509	Advanced Natural Language Processing	3	-	2	4
Program Electives						
S.No.	Course Code	Program Electives I & II	Hours / Week			
			L	T	P/D	C
1	25CAI202PE601	Advanced Computer Vision	2	-	2	3
2	25CAI202PE602	Reinforcement Learning in Artificial Intelligence	2	-	2	3
3	25CAI202PE603	Business Intelligence and Predictive Analytics	2	-	2	3
4	25CAI202PE604	Network security and cryptography	2	-	2	3
5	25CAI202PE605	Explainable AI Systems	2	-	2	3
6	25CAI202PE606	Software Process and Project Management	2	-	2	3
7	25CAI202PE607	Agile DevOps and Full Stack	2	-	2	3
8	25CAI202PE608	Quantum Computing	2	-	2	3
9	25CAI202PE609	Trustworthy AI: Ethics and Security	2	-	2	3
Open Electives						
S.No.	Course Code	Course	Hours / Week			

S.No.	Course Code	Course	L	T	P/D	C
1	25PEL300OE601	Energy Systems & Management	3	-	-	3
2	25PEL300OE602	Renewable Energy Technologies	3	-	-	3
3	25CAI300OE603	Cybersecurity Law and Policy	3	-	-	3
4	25CAI300OE604	Block Chain Technology	3	-	-	3
5	25AMS300OE605	Operations Research	3	-	-	3
6	25AMS300OE606	3D Printing	3	-	-	3
7	25ECE300OE607	Internet of Things and IIoT	3	-	-	3
8	25ECE300OE608	Pattern Recognition and Vision Systems	3	-	-	3
9	25CTM300OE609	Disaster Management	3	-	-	3
10	25CTM300OE610	Smart Cities	3	-	-	3