

Department of Computer Science Engineering

M.Tech. Artificial Intelligence & Machine Learning Curriculum

(Applicable to the students admitted from AY 2025-26 onwards)



**School of Engineering and Sciences
SRM University-AP, Andhra Pradesh**

ABBREVIATIONS

AEC	Ability Enhancement Courses
VAC	Value Added Courses
SEC	Skill Enhancement Courses
FIC	Foundation & Interdisciplinary Courses
OE	Open Elective
RDIP	Research / Design / Industrial Practice / Project / Thesis / Internship
CE	Core Elective
CC	Core Course
SE	Stream Elective
TE	Technical Elective

SEMESTER I							
S.No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	VAC	VAC	Community Engagement and Social Responsibility	0	0	1	1*
2	VAC	VAC	Research Seminar	0	0	1	1*
3	SEC	SEC	Design Thinking	1	0	1	2
4	FIC	FIC	Advanced Probability, Linear Algebra and Optimization Techniques	0	2	1	3
5	Core	CC	Machine Learning Techniques	3	0	1	4
6	Core	CC	Computer Vision	3	0	1	4
7	Core	CC	Artificial Intelligence and Knowledge Representation	3	0	1	4
8	Core	CC	Advanced Algorithms and Analysis	3	0	1	4
9	Core	CC	Advanced Python Programming Lab	0	0	2	2
Semester Total				13	2	10	23

SEMESTER II							
S.No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	VAC	VAC	Community Engagement and Social Responsibility	0	0	1	1*
2	VAC	VAC	Research Seminar	0	0	1	1
3	SEC	SEC	Entrepreneurial mindset	1	0	1	2
4	Core	CC	Deep Learning: Methodologies and Techniques	3	0	1	4
5	Core	CC	Agentic AI and Generative Adversarial Networks (GAN)	3	0	1	4
6	Core	CC	Data Warehousing and Pattern Mining	3	0	1	4
7	Elective	CE	Elective -1	3	0	0	3
8	Elective	CE	Elective -2	3	0	0	3
9	RDIP	RDIP	Project Management	0	2	1	3
Semester Total				16	2	7	24

SEMESTER III							
S.No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	RDIP	RDIP	Thesis I	0	0	14	14
2	RDIP	RDIP	Industrial Practice	0	0	3	3
Semester Total				0	0	17	17

SEMESTER IV							
S.No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	RDIP	RDIP	Thesis II	0	0	15	15
Semester Total				0	0	15	15

List of Core Electives							
S.No	Category	Sub-Category	Course Title	L	T/D	P/Pr	C
1	Elective	CE	Modelling and Simulation of Digital Systems	3	0	0	3
2	Elective	CE	Knowledge Engineering and Expert Systems	3	0	0	3
3	Elective	CE	Information Retrieval	3	0	0	3
4	Elective	CE	Pattern Recognition	3	0	0	3
5	Elective	CE	Problem Solving Methods in Artificial Intelligence	3	0	0	3
6	Elective	CE	Cognitive Systems	3	0	0	3
7	Elective	CE	Introduction to High Performance Computing	3	0	0	3
8	Elective	CE	Number theory and Cryptography	3	0	0	3
9	Elective	CE	Agent Systems	3	0	0	3
10	Elective	CE	Artificial Intelligence and Neural Networks	3	0	0	3
11	Elective	CE	Statistical Modelling for Computer Sciences	3	0	0	3
12	Elective	CE	Fuzzy Logic and its Applications	3	0	0	3
13	Elective	CE	Electronic Design Automation	3	0	0	3
14	Elective	CE	Multiagent Systems	3	0	0	3
15	Elective	CE	Optimization Paradigms: Exploring Methods and Strategic Frameworks	3	0	0	3
16	Elective	CE	Soft Computing	3	0	0	3
17	Elective	CE	Natural Language Processing	3	0	0	3