SCHEME & SYLLABUS

FOR

MASTER OF TECHNOLOGY (M. Tech)

Artificial Intelligence and Data Science

(1st to 2nd Semester)

With effect from 2026

MTech. PROGRAMME– 2026-28 BATCH



SCHOOL OF ENGINEERING

(A State Private University under the Karnataka Act No. 20 of 2013)

Approved by UGC & AICTE, New Delhi, Accredited by NAAC with A+ grade

Department of Computer Science and Engineering (Artificial Intelligence and Data Science)

I-SEMESTER											
S. No	Course Type	Course Code	Course Title	Teaching Hours/ Week				Examination			Credits
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	
				L	T	P	J				
1	BSC	26MAD1101	STATISTICS AND PROBABILITY FOR DATA SCIENCE	3	0	0	0	60	40	100	3
2	IPCC	26MAD1102	ADVANCED MACHINE LEARNING	3	0	2	0	60	40	100	4
3	IPCC	26MAD1103	DATA ANALYTICS AND VISUALIZATION	3	0	2	0	60	40	100	4
4	IPCC	26MAD1104	ADVANCED DATA STRUCTURES AND ALGORITHMS	3	0	2	0	60	40	100	4
5	PCC	26MAD1105	IOT SENSORS & ITS APPLICATIONS	3	0	0	0	60	40	100	3
6	AEC	26MAD1106	RESEARCH METHODOLOGY AND IPR	1	0	0	2	100	-	100	2
7	AEC	26MAD1107	SEMINAR I	0	0	0	2	100	-	100	1
8	TPC	26MAD1108	COGNITIVE AND TECHNICAL SKILLS-I	-	-	-	-	-	-	-	0
TOTAL				16	0	6	4	500	200	700	21

II-SEMESTER											
S. No	Course Type	Course Code	Course Title	Teaching Hours/ Week				Examination			Credits
				Lecture	Tutorial	Practical	Project	CIE Marks	SEE Marks	Total Marks	
				L	T	P	J				
1	IPCC	26MAD1201	ADVANCED DEEP LEARNING	3	0	2	0	60	40	100	4
2	PCC	26MAD1202	IMAGE PROCESSING AND COMPUTER VISION	3	0	0	0	60	40	100	3
3	IPCC	26MAD1203	NLP & GENERATIVE AI	3	0	2	0	60	40	100	4
4	IPCC	26MAD1204	BIG DATA ENGINEERING & ANALYTICS	3	0	2	0	60	40	100	4
5	PEC	26MAD12XX	PROFESSIONAL ELECTIVE–I	3	0	0	0	60	40	100	3
6	PEC	26MAD12XX	PROFESSIONAL ELECTIVE–II	3	0	0	0	60	40	100	3
7	AEC	26MAD1205	SEMINAR II	0	0	0	2	100	-	100	1
8	TPC	26MAD1206	COGNITIVE AND TECHNICAL SKILLS-II	-	-	-	-	-	-	-	0
TOTAL				18	0	6	2	460	240	700	22

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Professional Elective - I	
Course Code	**Course Name**
26MAD1207	Agentic AI
26MAD1208	Pattern Recognition
26MAD1209	Quantum Machine Learning
26MAD1210	Healthcare Analytics & Medical Imaging
26MAD1211	MLOps & Model Deployment

Professional Elective - II	
Course Code	**Course Name**
26MAD1212	Reinforcement Learning Algorithms
26MAD1213	Advanced Data Mining & Predictive Modeling
26MAD1214	Edge Computing
26MAD1215	Video Analysis and Surveillance
26MAD1216	Data Engineering & Pipelines

16/09/2026

Chairperson
Department of CSE (AI & Data Science)
School of Engineering
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