DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY

M.TECH in CSE (ARTIFICIAL INTELLIGENCE AND DECISION SCIENCE)

Program Structure (Applicable to 2025 admission onwards)

YEAR	FIRST SEMESTER						SECOND SEMESTER					
	SUB CODE	SUBJECT NAME	L	T	P	C	SUB CODE	SUBJECT NAME	L	T	P	C
I	MAT 5135	Mathematical Foundations of Computational Intelligence	3	1	0	4	ICT 5215	Convex Optimization and Applications	3	1	0	4
	ICT 5113	Generative Artificial Intelligence	4	0	0	4	ICT 5216	Data Mining and Knowledge Discovery	4	0	0	4
	ICT 5130	Theoretical foundation for Machine Learning	4	0	0	4	ICT ****	Program Elective-I	3	0	0	3
	ICT 5125	Probabilistic Graphical Models	4	0	0	4	ICT ****	Program Elective-II	3	0	0	3
	ICT 5126	Fairness And Machine Learning	3	0	0	3	ICT ****	Program Elective-III	4	0	0	4
	HUM 5071	Research Methodology and Technical Communication*	1	0	3	-	*** ****	Open Elective	3	0	0	3
	ICT 5143	Algorithmic Fairness and Graphical Models Lab**	0	0	3	2	HUM 5071	Research Methodology and Technical Communication*	1	0	3	2
	ICT 5144	Machine Intelligence Capstone Project**	0	0	3	2	ICT 5245	Knowledge Engineering Lab**	0	0	3	2
							ICT 5246	Decision Science Capstone Project**	0	0	3	2
	Total		19	1	6	23			21	1	9	27

	THIRD AND FOURTH SEMESTER											
II	ICT 6091	Project Work and Industrial Training							0	0	0	25

*TAUGHT IN BOTH SEMESTERS AND EVALUATED AND CREDITED IN THE SECOND SEMESTER

**3 Hrs/WEEK WITH A PROVISION FOR MINI PROJECT/ASSIGMENTS

PROGRAM ELECTIVES		OPEN ELECTIVES	
COURSE CODE	**COURSE TITLE**	**COURSE CODE**	**COURSE TITLE**
ICT 5411	Algorithmic Game Theory [3003]	ICT 5301	Applied Game Theory
ICT 5423	Applied Natural Language Processing [4004]	ICT 5302	Block Chain Technologies
ICT 5412	Computational Social Science [3003]	ICT 5303	Cyber Security and Cyber Laws
ICT 5413	Computer Vision and Applications [3003]	ICT 5304	Real Time Systems
ICT 5424	Decision Intelligence -[3003]		
ICT 5405	Federated Learning [4004]		
ICT 5425	Full Stack Machine Learning [3003]		
ICT 5426	Reinforcement Learning[4004]		
ICT 5409	Semantic Web Technologies [3003]		
ICT 5427	Time Series Analysis and Forecasting [4004]		
ICT 5428	Statistical Machine Learning		