

M.Sc. in Computer Science with Specialization in Machine Intelligence

Semester 1				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M3020001	Digital Experience Laboratory	4	1-3-0-0	300
	Design Thinking and Innovation	3	3-0-0-0	300
M2020101	Mathematics for Computer Science	4	3-0-1-0	200
M3021112	Machine Learning	3	3-0-0-0	300
M2020103	Data Structures and Algorithms	4	3-1-0-0	200
M2020104	Computer Architecture	3	3-0-0-0	200
M1020105	Python for Data Science	3	3-0-0-0	100
M3021116	Machine Learning Lab - 1	1	0-1-0-0	300
M1020107	Python Programming Lab	1	0-1-0-0	100
Total Credits		26		

Semester 2				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
	Digital Access for Community Empowerment	3	0-0-0-3	300
M3021211	Digital Image and Video Processing	4	3-0-0-1	300
M2021202	Database Systems	3	3-0-0-0	200
M2020203	Operating Systems	3	3-0-0-0	200
M3021204	Deep Learning and Reinforcement Learning	3	3-0-0-0	300
	Elective 1	4		300
M3021206	Machine Learning Lab - 2	2	0-1-0-0	300
M3020208	M.Sc. Mini Project 1	1	0-0-0-1	300
Total Credits		23		

Electives for Semester 2				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M3020205	Augmented and Virtual Reality	4	3-1-0-0	300
M3020216	Computer Vision	4	3-0-0-1	300
M3020225	Information Retrieval	4	3-0-0-1	300
M2020204	Computer Networks and Security	4	3-0-1-0	200
M3020217	Data Analytics	4	3-0-0-1	300
M3020218	AI Ethics and Sustainability	4	3-0-1-0	300
Total Credits		4		

Semester 2 Internship				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M3020265	M.Sc. Summer Internship/Team Project	2	0-0-0-2	300
Total Credits		2		

Semester 3				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M3021373	Natural Language Processing	4	3-0-0-1	300
M3021312	Big Data Technologies	3	3-0-0-0	300
	Elective 2	4		300
	Elective 3	4		300
	Elective 4	4		300
M3021316	Big Data Technologies Lab	1	0-1-0-0	300
M3020307	IoT Experience Lab	2	0-2-0-0	300
M3020308	M.Sc. Mini Project 2	3	0-0-0-3	300
Total Credits		25		

Electives for Semester 3					
Course Code	Title of the Course	Elective No.	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M3020334	Artificial Intelligence	Elective 2	4	3-0-1-0	300
M3020314	Soft Computing	Elective 2	4	3-0-0-1	300
M3020363	Secure Software Engineering	Elective 2	4	3-0-0-1	300
M3020324	Web Technology	Elective 2	4	3-0-0-1	300
M3020245	Cloud and Edge Computing	Elective 3	4	3-0-0-1	300
M3020354	Optimization Techniques	Elective 3	4	3-0-0-1	300
M3020353	Embedded Systems	Elective 3	4	3-0-0-1	300
M3020304	Security in Digital Transformation	Elective 3	4	3-0-0-1	300
M3020323	Cognitive Computing	Elective 4	4	3-0-0-1	300
M3020383	Quantum Computing & Cryptography	Elective 4	4	3-0-1-0	300
M3020313	Block Chain Technology	Elective 4	4	3-1-0-0	300
M3020374	Object Oriented Analysis and Design	Elective 4	4	3-0-0-1	300
Total Credits					

Semester 4				
Course Code	Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
M4020401	M.Sc. Internship/Project	24	0-0-0-24	400
Total Credits		24		