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

Semester 1			
Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
Digital Experience Laboratory	4	1-3-0-0	300
Design Thinking and Innovation	3	3-0-0-0	300
Mathematics for Computer Science	4	3-0-1-0	200
AI & Machine Learning	3	3-0-0-0	300
Digital Image and Video Processing	4	3-0-0-1	300
Computer Architecture	3	3-0-0-0	200
Python Programming	4	3-1-0-0	100
Machine Learning Lab - 1	1	0-1-0-0	300
Total Credits	26		

Semester 2			
Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
Digital Access for Community Empowerment	3	0-0-0-3	300
Data Structures and Algorithms	4	3-1-0-0	200
Database Systems	3	3-0-0-0	200
Operating Systems	3	3-0-0-0	200
Deep Learning and Reinforcement Learning	3	3-0-0-0	300
Elective 1	4		300
Machine Learning Lab – 2	2	0-2-0-0	300
Total Credits	22		

Electives for Semester 2			
Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
Robotics Programming	4	3-0-0-1	300
Data Analytics	4	3-0-0-1	300
AI Ethics and Sustainability	4	3-0-1-0	300
Cloud and Edge Computing	4	3-0-0-1	300
Augmented and Virtual Reality	4	3-1-0-0	300
Computer Vision	4	3-0-0-1	300
Theory of Computation	4	3-0-0-1	300

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

Semester 3				
Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level	
Soft Computing	4	3-0-0-1	300	
Big Data Technologies	3	3-0-0-0	300	
Elective 2	4		300	
Elective 3	4		300	
Elective 4	4		300	
Big Data Technologies Lab	1	0-1-0-0	300	
IoT Experience Lab	2	0-2-0-0	300	
M.Sc. Mini Project	4	0-0-0-4	300	
Total Credits	26			

Electives for Semester 3			
Title of the Course	Credits	Credit Split Lecture/Lab/ Seminar/Project	Level
Natural Language Processing	4	3-0-0-1	300
Speech Processing	4	3-0-0-1	300
Web Technology	4	3-0-0-1	300
Compiler Design	4	3-0-0-1	300
Optimization Techniques	4	3-0-0-1	300
Cognitive Computing	4	3-0-0-1	300
Blockchain Technology	4	3-1-0-0	300
Object-Oriented Software Engineering	4	3-1-0-0	300

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