

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**M.Tech. (Artificial Intelligence)**

**First Semester**

Course Number	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
AI511	Knowledge Based Systems	3	-	-	3
AI512	Machine Learning	3	-	-	3
AI513	Soft Computing	3	-	-	3
	Elective – 1	3	-	-	3
	Elective – 2	3	-	-	3
	Open elective-1	3	-	-	3
AI514	Lab 1-Pyyhon/SyLab	-	-	2	2
AI515	Seminar 1	-	2	-	2
Total credit 22					

**Second Semester**

Course Number	Subject	Scheme of Studies Periods per week			Total Credits
		L	T	P	
AI521	Modern Algorithm Design	3	-	-	3
AI522	Deep Learning	3	-	-	3
AI523	Computer Vision	3	-	-	3
	Elective – 3	3	-	-	3
	Elective – 4	3	-	-	3
	Open elective-2	3	-	-	3
AI524	Lab 2- Tensor Flow	-	-	2	2
AI525	Seminar 2	-	2	-	2
Total credit 22					

**List of Electives**

AI-531 Multi-Agent Systems  
 AI-532 Human-machine Interactions  
 AI-533 Data Mining  
 AI-534 Data Sciences  
 AI-535 Artificial Life and Evolutionary  
 Computation  
 AI-536 Reinforcement Learning  
 AI-537 Quantum Computing  
 AI-538 Data-driven Optimization  
 AI-539 Internet of Things  
 AI-540 Big Data Technology

AI-541 Advanced Data Structure  
 AI-542 Heterogeneous Computing  
 AI-543 Embedded Systems  
 AI-544 Probabilistic Graphical Models  
 AI-545 Fuzzy and Rough Theory  
 AI-546 Robotic Planning Algorithms  
 AI-547 Large-scale Graph Mining  
 AI-548 Natural Language Processing  
 AI-549 Game Theory

**Third Semester:**

Course Number	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
	Project Phase –I/ Dissertation	-	-	23	23

**Fourth Semester:**

Course Number	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
	Project Phase –II / Dissertation	-	-	23	23