

M Tech in Artificial Intelligence

SCHEME OF STUDY (wef July 2021)

First Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 511	Statistical Methods	3		-	3
AI 512	Knowledge base Systems	3		-	3
AI 513	Machine Learning	3		-	3
AI 514	Soft Computing	3		-	3
HUM 511	Communication Skills	2	-	-	2
	Elective -1 (A)	3		-	3
	Elective -2 (B)	3		-	3
AI 515	AI and ML Lab	-	-	2	1
AI 516	Seminar-I	-	-	2	1
Total Hours: 24 Total Credits: 22		Total Semester Credits			22

Second Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 521	Modern Algorithm Design	3		-	3
AI 522	Deep Learning	3		-	3
AI 523	Computer Vision	3		-	3
	Elective -3 (A)	3		-	3
	Elective -4 (A)	3		-	3
	Elective -5 (C)	3		-	3
MTH 524	Research Methodology	1	1	-	2
AI 525	Deep Learning and Vision Lab	-	-	2	1
AI 526	Seminar-II	-	-	2	1
Total Hours: 24 Total Credits: 44		Total Semester Credits			22

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Third Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 611	Dissertation Phase - I	-	-	32	16
Total Hours: 32 Total Credits: 60		Total Semester Credits			16

Fourth Semester:

Course No.	Subject	Schemes of studies periods per week			Total Credits
		L	T	P	
AI 621	Dissertation Phase - II	-	-	40	20
Total Hours: 40 Total Credits: 80		Total Semester Credits			20

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Centre for Artificial Intelligence

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List of Program Electives A		List of Open Electives C	
AI 551	Artificial and Evolutionary Algorithms	ARP - 581	Introduction to Urban Planning
AI 552	Reinforcement Learning	BSE – 581	Bioprocess Engineering
AI 553	Robotics and Planning algorithms	BSE – 582	Biophysics Tools and Techniques
AI 554	Advanced Machine Learning Techniques	CHE – 581	Analytical Techniques
AI 555	Natural Language Processing	CHE – 582	Green Technology & Processes
AI 556	Fuzzy and Rough Theory	CE – 581	Solid Waste Management
AI 557	Data Driven Optimization	CE – 582	Basic Concept of GIS
AI 558	Brain Computer Interfacing	CE – 583	Road Safety
AI 559	Text Mining	PHY – 581	Nanotechnology and Nanoscience
AI 560	Game Theory	EE – 581	Electric Machines & Applications
AI 561	Scalable Systems for data science	EE – 582	Control and Instrumentation
		ECE – 581	Introduction to Fuzzy Logic
List of Departmental Electives B		ECE – 582	Neural Networks and its Applications
AC 512	Advanced Data Structure	EC - 581	Energy Resource Technologies
AC 553	Web Search & Information Retrieval	HUM – 581	Intellectual Property Rights for Engineers
CN 512	Computer & Network Security	HUM – 582	Applied Psychology: Human Centered Design and Engineering
CN 514	Wireless Networking	MTH – 581	Advanced Operations Research
IS 513	Cybercrime & Information Warfare	MTH – 582	Computing Technologies
		ME – 581	Value Engineering
		ME – 582	Design Thinking
		ME - 583	Mechatronics and NDT in Engineering
		MME – 581	Advanced Instrumentation Methods for Material Analysis
		MME – 582	Smart Materials and their Application
		MBA-581	Engineering Startup Management