

Tentative Course Structure for the **M.Tech. (AI) Program**

Cat.	Course Title		L-T-P	Credits	Cat.	Course Title		L-T-P	Credits
I Semester					II Semester				
C	CSxxx	Artificial Intelligence I	3-0-0	3	C	CSxxx	Artificial Intelligence II	3-0-0	3
C	CSxxx	Maths Fractals: Linear Algebra, Probability & Random Processes, Optimization	3x(1-0-0)	3	C	CSxxx	Machine Learning II	3-0-0	3
C	CSxxx	Machine Learning I	3-0-0	3	C	CSxxx	Autonomous systems	3-0-0	3
PE		Program Elective-1	3-0-0	3	PE		Program Elective-3	3-0-0	3
PE		Program Elective-2	3-0-0	3	OE		Open Elective-1	3-0-0	3
C		Data structures and practices	1-0-3	2					
Total				17	Total				15
III Semester					IV Semester				
P	CSxxx	Major Project – Part 1		5	P	CSxxx	Major Project – Part 2		11
PE		Program Elective-4		3	PE		Program Elective-6		3
PE		Program Elective-5		3					
OE		Open Elective-2		3					
Total				14	Total				14

Electives:

- Dependable AI
- Bio-image computing
- Neuromorphic computing
- NLP and text mining
- Speech processing
- AR/VR
- Robotics
- Machine learning for big data
- Stream analytics
- Resource constrained AI
- Human-machine interface
- Computer Vision
- AI: Ethics and Privacy
- AI for finance
- Digital humanities
- Cognitive modelling and architectures
- Information retrieval and web mining
- Graph theory and applications