

**School of Computer Science & Engineering**  
**Department of Artificial Intelligence and Machine Learning**  
**Course Structure**  
**For M.Tech CSE(AIML)Program from Academic Session: 2023-25**  
**Duration: 2 Years, Total Number of Credits: 70**

Year	FIRST SEMESTER						SECOND SEMESTER					
	Course Code	Course Name	L	T	P	C	Course Code	Course Name	L	T	P	C
I	AI6101	Applied Statistics and Probability	3	1	0	4	AI6201	Natural Language Understanding	3	1	0	4
	AI6102	Advanced Data Structures and Algorithms	3	1	0	4	AI6202	Deep Learning	3	1	0	4
	AI6103	Applied Machine Learning	3	1	0	4	AI6203	MLOps	3	1	0	4
	AI61XX	Program Elective-1	3	0	0	3	AI62XX	Program Elective-3	3	0	0	3
	AI61XX	Program Elective-2	3	0	0	3	AI62XX	Program Elective-4	3	0	0	3
	AI6130	Advanced Data Structures and Algorithms Lab using Python (Lab – 1)	0	0	4	2	AI62XX	Program Elective-5	3	0	0	3
	AI6131	Data Visualization Lab (Lab – 2)	0	0	2	1	AI6270	Project -2 / Research Practice - 2	0	0	4	2
	DR6001	Self Study MLC / Research Methodology	2	0	0	2	AI6230	Deep Learning lab	0	0	4	2
	AI6170	Project - 1 / Research Practice – 1	0	0	4	2						
						25						25
	Total Contact Hours (L+T+P)		17	3	10	30	Total Contact Hours (L+T+P)		18	3	8	29
	<b>Programme Elective-I</b> <ul style="list-style-type: none"> <li>• AI6140 Healthcare Informatics</li> <li>• AI6141 <b>Big Data Analytics</b></li> <li>• AI6142 Cyber Analytics</li> </ul> <b>Programme Elective-II</b> <ul style="list-style-type: none"> <li>• AI6143 <b>Computer Vision</b></li> <li>• AI6144 Cognitive Computing</li> <li>• AI6145 Speech Recognition</li> </ul>						<b>Programme Elective-III</b> <ul style="list-style-type: none"> <li>• AI6240 Explainable AI</li> <li>• AI6241 <b>Behavior Data Analysis</b></li> <li>• AI6242 Machine Learning for Cybersecurity</li> </ul> <b>Programme Elective-IV</b> <ul style="list-style-type: none"> <li>• AI6243 Quantum Artificial Intelligence</li> <li>• AI6244 Computational Game Theory</li> <li>• AI6245 Artificial Intelligence for Malware Detection</li> <li>• AI6246 <b>Reinforcement Learning</b></li> </ul> <b>Programme Elective-V</b> <ul style="list-style-type: none"> <li>• AI6247 <b>Recommendation System</b></li> <li>• AI6248 Biomedical Imaging</li> <li>• AI6249 Graph Neural Network</li> </ul>					
	Total Contact Hours (L+T+P)=30 Total Credits:25						Total Contact Hours (L+T+P)=29 Total Credits:25					
II	THIRD SEMESTER						FOURTH SEMESTER					
	AI7170/ AI7171	Internship-I/ Dissertation-I	0	0	20	10	AI7270/ AI7271	Internship-II/ Dissertation-II	0	0	20	10
	Total Contact Hours= 20 Total Credits=10						Total Contact Hours= 20 Total Credits=10					