

**Course Scheme for M.Tech. in Information Technology with Specialization in Artificial Intelligence**

**M.Tech Sem-I.**

Code	Course Title	Hours per week			Credits
		L	T	P	
	Program Core I- Mathematical foundations of Computer Science	3	0	0	3
	Program Core II- Advances in Artificial Intelligence	3	0	0	3
	Program Elective I- Cloud Computing / Pattern Recognition / Robotics & Automation	3	0	0	3
	Program Elective II- Logic Knowledge Representation & Reasoning / Expert Systems/ Soft Computing	3	0	0	3
	Research Methodology and IPR	2	0	0	2
	Audit Course	2	0	0	0
	Laboratory 1(Artificial Intelligence Lab)	0	0	4	2
	Laboratory 2(Elective-1)	0	0	4	2
<b>Total Credits: 18</b>					

**M.Tech Sem- II**

Code	Course Title	Hours per week			Credits
		L	T	P	
	Program Core III – Advanced Algorithms	3	0	0	3
	Program Core IV – Natural Language Processing	3	0	0	3
	Program Elective III – Artificial Neural Networks/ Advanced Data Mining / Big Data Analytics/ Computational Intelligence	3	0	0	3
	Program Elective IV– Geographical Information System & Spatial Decision Support System / Genetic Algorithms	3	0	0	3
	Audit Course	2	0	0	0
	Laboratory 3 (Based on Natural Language Processing)	0	0	4	2
	Laboratory 4 (Based on Elective III)	0	0	4	2

	Mini Project with Seminar	2	0	0	2
<b>Total Credits: 18</b>					

**\*Students be encouraged to go to Industrial Training/Internship for at least 2-3 months during semester break.**

**M.Tech III Sem\***

Code	Course Title	Hours per week			Credits
		L	T	P	
	Digital Image Processing and Computer Vision	3	0	4	05
	<b>Open Elective</b> 1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy	3	0	0	03
	Dissertation-I /Industrial Project	0	0	20	10
<b>Total Credits: 18</b>					

**\*Students going for Industrial Project/Thesis will complete these courses through MOOCs.**

**M.TechSem-IV**

	Course Title	Hours per week			Credits
		L	T	P	
	Dissertation II	0	0	32	16
<b>Total Credits: 16</b>					

The program offers several elective courses, focusing on different aspects of Artificial Intelligence. A student can choose to do any course from given program elective set.