

DEPARTMENT OF COMPUTER SCIENCE

Name of the Programme : **M.TECH. COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND SOFTWARE ENGINEERING)**

Semester I

Sl. No.	Course Code	Course	Core/Elective	Credits	Lec.	Lab/Tutorial	Marks
1	25-502-0101	Mathematics for Computing	C	4	4	2	100
2	25-502-0102	Artificial Intelligence and Machine Learning	C	4	4	2	100
3	25-502-0103	Design and Analysis of Algorithms	C	4	4	2	100
4	-	Elective I	E	3	4	2	100
5	-	Elective II	E	3	4	2	100
Total for Semester I				18	20	10	500

Electives

Course Code	Course
25-502-0104	Cloud Computing and Internet of Things
25-502-0105	Big Data Analytics
25-502-0106	Software Quality Management
25-502-0107	Quantum Computing
25-502-0108	Advanced Data Mining
25-502-0109	Information Retrieval and Web search
25-502-0110	Social Network Analytics

Semester II

Sl. No.	Course Code	Course	Core/Elective	Credits	Lec.	Lab/Tutorial	Marks
1	25-502-0201	Software Architecture and Design Thinking	C	4	4	2	100
2	25-502-0202	Agile Software Engineering	C	4	4	2	100
3	25-502-0203	Deep Learning	C	4	4	2	100
4	25-502-0204	Seminar	C	1	0	3	100
5	-	Elective III	E	3	4	2	100
6	-	Elective IV	E	3	4	2	100
Total for Semester II				19	20	13	600

Electives

Course Code	Course
25-502-0205	Blockchain Technology
25-502-0206	Explainable Deep learning Models

25-502-0207	Generative AI models
25-502-0208	Soft computing
25-502-0209	Complex Networks: Theory and Applications
25-502-0210	Advances in Databases

Semester III

Sl. No.	Course Code	Course	Core/Elective	Credits	Lec.	Lab/Tutorial	Marks
1	25-502-0301	Elective - MOOC	E	2	0	10	100
2	25-502-0302	Internship*	C	1	0	0	100
3	25-502-0303	Dissertation & Viva Voce	C	15	0	20	100
Total for Semester III				18	0	30	300

Semester IV

Sl. No.	Course Code	Course	Core/Elective	Credits	Lec.	Lab/Tutorial	Marks
1	25-502-0401	Dissertation & Viva Voce	C	17	0	30	100
Total credits for Degree : 72				Total Mark: 1500			

*The students should complete the **Course 25-502-0302 : Internship** during the Vacation period (May-June).