

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited

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FACULTY OF ENGINEERING AND TECHNOLOGY

M.TECH. COMPUTER SCIENCE AND ENGINEERING

CURRICULUM (I – IV SEMESTERS)

Regulation 2024

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SEMESTER I

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
Theory						
1	P24CS101	Mathematical foundations of Computer Science	3	1	0	4
2	P24CS102	Advanced Data Structures and Algorithms	3	0	0	3
3	P24CS103	Advanced Computer Organization and Architecture	3	1	0	4
4	P24CS104	Machine Learning and Deep Learning	3	0	0	3
5	P24CS9XX	Professional Elective – I	3	0	0	3
6	P24VA011	Ancient Computer Knowledge	3	0	0	3
Practical						
7	P24CS105	Advanced Data Structures and Algorithms Laboratory	0	0	4	2
8	P24CS106	Machine Learning and Deep Learning Laboratory	0	0	4	2
Total Credits			18	2	8	24

SEMESTER II

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
Theory						
1	P24CS151	Network Design and Technologies	3	1	0	4
2	P24CS152	Advanced Database Management Systems	3	1	0	4
3	P24CS153	Advanced concepts in Operating Systems	3	0	0	3
4	P24CS154	Big Data Analytics	3	0	0	3
5	P24CS9XX	Professional Elective – II	3	0	0	3
6	P24CS9XX	Professional Elective – III	3	0	0	3
7	P24VA002	Community Engagement and Social Responsibility	1	0	2	2
Practical						
8	P24CS155	Data Analytics Laboratory	0	0	4	2
Total Credits			19	1	6	24

SEMESTER III

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
Theory						
1	P24CS201	Natural Language Processing	3	0	0	3
2	P24CS9XX	Professional Elective – IV	3	0	0	3
3	P24CS7XX	Open Elective (Online Course)	3	0	0	3
4	P24VAXXX	Research Methodology and IPR	3	0	0	3
Project						
5	P24CS202	Internship	0	0	4	2
6	P24CS203	Project Phase – I	0	0	12	6
		Total Credits	15	1	16	20

SEMESTER IV

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
Project						
1	P24CS251	Project Phase – II	0	0	24	12
		Total Credits	0	0	24	12

Total Credits: 80

Suggested List of Professional Elective Courses

Professional Elective - I

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
1	P24CS901	Distributed Systems	3	0	0	3
2	P24CS902	Wireless Sensor Networks	3	0	0	3
3	P24CS903	Introduction to Intelligent Systems	3	0	0	3
4	P24CS904	Data Science	3	0	0	3

Professional Elective - II

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
1	P24CS951	Data Preparation and Analysis	3	0	0	3
2	P24CS952	Digital Forensics	3	0	0	3
3	P24CS953	Optimization Techniques	3	0	0	3
4	P24CS954	Cryptography and Network Security	3	0	0	3

Professional Elective - III

Sl. No.	Course Code	Course Name	Credits			
			L	T	P	C
1	P24CS955	Cloud Computing	3	0	0	3
2	P24CS956	Advanced Wireless and Mobile Networks	3	0	0	3
3	P24CS957	Soft Computing	3	0	0	3
4	P24CS958	Generative AI models	3	0	0	3

Professional Elective - IV

Sl. No.	Course Code	Course Name	Hours / Credits			
			L	T	P	C
1	P24CS905	Prompt Engineering	3	0	0	3
2	P24CS906	Data Visualization	3	0	0	3
3	P24CS907	Agentic AI	3	0	0	3
4	P24CS908	Computer Vision	3	0	0	3