



DRIEMS
UNIVERSITY

School of Engineering and Technology

ACADEMIC CURRICULUM

MASTER'S DEGREE PROGRAMME M.TECH

Course structure and Detailed Syllabus of Students
admitted in 2024-2025 Academic Session



Department of Computer Science and Engineering
(Data Sciences)

Department of Computer Science and Engineering (Data Science)

Curriculum for M.Tech. Courses (2024-2025)

SEMESTER-I

Sl. No.	Subject Type	Subject Code	SubjectName	Teaching Hours			Credit	Maximum Marks			
				L	T	P		IA	EA	PA	Total
1	Core 1	ETCST521	Computational Methods and Techniques	3	0	0	3	50	100	-	150
2	Core 2	ETCST542	Data Analytics with Machine Learning	3	0	0	3	50	100	-	150
3	Professional Elective 1 (Any One)	ETCST523	Distributed Database System	3	0	0	3	50	100	-	150
		ETCST524	Data Science								
		ETCST525	Wireless Sensor Networks								
4	Professional Elective 2 (Any One)	ETCST526	Advanced Operating System	3	0	0	3	50	100	-	150
		ETCST527	Advanced Computer Architecture								
		ETCST522	Advanced Data Structure and Algorithm								
5	Mandatory	ETCST529	Research Methodology & IPR	2	0	0	2	50	100	-	150
6	Lab 1	ETCSS521	Laboratory 1 (Advanced Data Structures and Algorithm)	0	0	4	2	-	-	100	100
7	Lab 2	ETCSS522	Seminar / Technical Writing-1	0	0	4	2	-	-	100	100
Total				14	0	8	18	250	500	200	950
8	Audit 1	Any one subject from Appendix-I (ETCST530)									100
Grand Total											1050

SEMESTER-II

Sl. No.	Subject Type	Subject Code	Subject Name	Teaching Hours			Credit	Maximum Marks			
				L	T	P		IA	EA	PA	Total
1	Core 3	ETCST541	Artificial Intelligence and Knowledge Representation	3	0	0	3	50	100	-	150
2	Core 4	ETCST532	Software Engineering & Development Methodology	3	0	0	3	50	100	-	150
3	Professional	ETCST533	Computer Graphics	3	0	0	3	50	100	-	150
	Elective 3 (Any One)	ETCST534	Computer Vision								
		ETCST535	Advanced Computer Network								
4	Professional	ETCST536	Information Extraction and Retrieval	3	0	0	3	50	100	-	150
	Elective 4 (Any One)	ETCST531	Internet of Things								
		ETCST538	GPU Computing								
5	Practical 1	ETCSS523	Minor Project & Seminar	0	0	4	2	-	-	100	100
6	Lab 3	ETCSS526	Data Management for Machine Learning Lab	0	0	4	2	-	-	100	100
7	Lab 4	ETCSS525	Industrial Training	0	0	4	2	-	-	100	100
Total				12	0	12	18	200	400	300	900
8	Audit 2	Any one subject from Appendix-II (ETCST539)									100
Grand Total											1000

SEMESTER-III

Sl. No.	Subject Type	Subject Code	SubjectName	Teaching Hours			Credit	Maximum Marks				
				L	T	P		IA	EA	PA	Total	
1	Professional Elective 5 (Any One)	ETCST626	Optimization Techniques for Analytics									
		ETCST625	Advanced Natural Language Processing	3	0	0	3	50	100	-	150	
		ETCST623	Database Security and Access Control									
2	Open Elective	Any one subject from Appendix-III (ETCST624)		3	0	0	3	50	100	-	150	
3	Project 1	ETCSS621	Phase-I Dissertation	0	0	20	10	-	-	100	100	
Total				6	0	20	16	100	200	100	400	

SEMESTER-IV

Sl. No.	Subject Type	Subject Code	SubjectName	Teaching Hours			Credit	Maximum Marks			
				L	T	P		IA	EA	PA	Total
1	Project 2	ETCSS622	Phase-II Dissertation	0	0	32	16	-	-	200	200
Total				0	0	32	16	-	-	200	200

Abstract of Credit and Marks Distribution

Sl. No.	Semester	Maximum Credits	Maximum Marks
1	1 st Semester	18	1050
2	2 nd Semester	18	1000
3	3 rd Semester	16	400
4	4 th Semester	16	200
Total		68	2650

Appendix-I

1. Value Education (ETCST530)
2. Constitution of India
3. Pedagogy Studies
4. Stress Management by Yoga

Appendix-II

1. Personality Development through Life Enlightenment Skills.
2. English for Research Paper Writing (ETCST539)
3. Disaster Management
4. Sanskrit for Technical Knowledge

Appendix-III

1. Business Analytics
2. Industrial Safety
3. Operations Research (ETCST624)
4. Cost Management of Engineering Projects
5. Composite Materials
6. Waste to Energy

Abbreviations Used

L= Lectures

P= Practical/Laboratory

IA* = Internal Assessment

T= Tutorial

PA= Practical Assessment

EA=End-Semester Assessment