Curriculum Format

Programme Name:	M. Tech. Computer Science and Engineering
Curriculum applicable to (for admitted year	AY 2025-26
Curriculum Version:	**1.0**
Approved by & Date	1st Academic Council

School Core Min. Credit Requirements --------->   36

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
	Projects and Internships	**28-40 Credits (Based on the Choice of students)**							
MTPJ649		Project	0	0	16	8	None	None	Engineering
RES703		Final Dissertation	0	0	40	20	None	None	Engineering
	Skill Enhancement Courses	**All are Compulsory**				6			
MTSE501		Technical Communication and Professional Development	3	0	0	3	None	None	Science
MTSE502		Quantitative Aptitude and Problem-Solving Strategies	3	0	0	3	MTSE501	None	Science
RES701	**Compulsory Research Course**	Research Methodology	2	0	0	2			Research

Programme Core Min. Credit Requirements --------->   22

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
MTCSE501	Program Core	Agile Software Development	3	0	0	3	None		Engineering
MTCSE502	Program Core	Java for Enterprise Applications	3	0	2	4	None		Engineering
MTCSE503	Program Core	Computer Networking and security	3	0	0	3	None		Engineering
MTCSE601	Program Core	Advanced Data Structures	3	0	2	4	None		Engineering
MTCSE504	Program Core	Machien Learning for AI	3	0	2	4	None		Engineering
MTCSE602	Program Core	Advanced DataBase Management System	4	0	0	4	None		Engineering

Specialization Electives Min. Credit Requirements ---------->   18

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
MTCC505	Program Elective	Cloud Computing & Virtualization	3	0	2	4	None		Engineering
MTCC506	Program Elective	Parallel and Distributed Programming	3	0	0	3	None		Engineering
MTCSE603	Program Elective	Advanced Algorithms	3	0	2	4	None		Engineering
MTCC507	Program Elective	Essentials of Data Science on Cloud Computing	3	0	0	3	None		Engineering
MTCC508	Program Elective	IoT Integration with Cloud Systems	3	0	2	4	None		Engineering
MTCC509	Program Elective	Cloud DevOps and Automation	3	0	2	4	None		Engineering
MTCSE604	Program Elective	Advanced AI with Generative Models	3	0	0	3	None		Engineering
MTCSE514	Program Elective	Deep Learning	3	0	2	4	None		Engineering
MTCSE515	Program Elective	Text and Speech Analytics	3	0	0	3	None		Engineering
MTCSE516	Program Elective	Natural Language Processing	3	0	2	4	None		Engineering
MTCSE517	Program Elective	Computer Vision	3	0	2	4	None		Engineering
MTCSE518	Program Elective	Applied Cryptography	3	0	0	3	None		Engineering
MTCSE519	Program Elective	Steganography and Digital Watermarking	3	0	2	4	None		Engineering
MTCSE520	Program Elective	Blockchain Technologies	3	0	0	3	None		Engineering
MTCSE521	Program Elective	Cyber Security and Privacy	3	0	2	4	None		Engineering
MTCSE522	Program Elective	Intrusion Detection Systems and Firewall	3	0	2	4	None		Engineering

Open Electives Min. Credit Requirements ---------->   4

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
		Any Course after fulfilling Programme Core & Unified Core requirements without duplicity can be taken as Open Elective							

Credit Distribution -1

CSE	Credits
School Core Courses	**36**
Skill Enhancement Courses	6
Research Methodology	2
Projects and Dissertations	28
Program Core Courses	**22**
Program/ Specialization Elective Courses	**18**
Open Elective Courses	**4**
Total Credits	**80**