Curriculum Format

Programme Name:	M. Tech. Electronics and Communication 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 --------->   28

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
	Projects and Internships					**28**			
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
MTEC501	Program Core	Advanced Information Theory and Coding	3	0	0	3			Engineering
MTEC502	Program Core	Electronic System Design	3	0	2	4			Engineering
MTEC503	Program Core	Digital communication and signal processing techniques	3	0	0	3			Engineering
MTEC504	Program Core	Advanced Wireless Communication Systems	3	0	2	4			Engineering
MTEC511	Program Core	Solid State Devices	3	0	2	4			Engineering
MTEC512	Program Core	Advanced Microwave Theory and Techniques	3	0	2	4			Engineering

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

Course Code	Category	Course Title	L	T	P	C	Pre/Co-Requisite	Anti-requisite	Course Discipline
		Any course to fulfill the basket requirements							
MTEC505	Program Elective	MOS Device Physics	3	0	0	3			
MTEC601	Program Elective	Compact modelling of semiconductor devices	3	0	2	4			
MTEC512	Program Elective	Analog VLSI Circuit Design	3	0	0	3			
MTEC515	Program Elective	Digital VLSI Circuit Design	3	0	2	4			
MTEC517	Program Elective	Mixed Signal Circuit Design	3	0	2	4			
MTEC506	Program Elective	Wireless Networks	3	0	0	3			
MTEC508	Program Elective	Speech and Audio Processing	3	0	2	4			
MTEC513	Program Elective	Wireless technologies: 5G and Beyond	3	0	0	3			
MTEC602	Program Elective	Image Processing and Computer Vision	3	0	2	4			
MTEC518	Program Elective	Adaptive Signal Processing Techniques	3	0	2	4			
MTEC507	Program Elective	Microwave Engineering	3	0	0	3			
MTEC509	Program Elective	Antenna Theory and Design	3	0	2	4			
MTEC514	Program Elective	Advanced EMFT	3	0	0	3			
MTEC516	Program Elective	High Power mm/THz Wave Engineering	3	0	2	4			
MTEC603	Program Elective	Radar Signal Processing	3	0	2	4			

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

ECE	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**