

COEP Technological University Pune

(A Unitary Public University of Govt. of Maharashtra)

NEP 2020 Compliant

Proposed Curriculum Structure

M. Tech.

**Electronics and Telecommunication – Intelligent
Communication Systems**

(Effective from: A.Y. 2025-26)

**PG Program [M. Tech. Electronics and Telecommunication – Wired and Wireless
Communication]
Proposed Curriculum Structure
W.e.f AY 2025-26**

List of Abbreviations

Abbreviation	Title	No of courses	Credits	% of Credits
PSMC	Program Specific Mathematics Course	1	4	5.88 %
PSBC	Program Specific Bridge Course	1	3	4.41 %
PCC	Program Core Course	5	15	22.06 %
PEC	Program Specific Elective Course	3	9	13.24 %
LC	Laboratory Course	5	8	11.76 %
VSEC	Vocational and Skill Enhancement Course	2	18	26.47 %
OE	Open Elective	1	3	4.41 %
SLC	Self-Learning Course	2	6	8.82 %
AEC	Ability Enhancement Course	1	1	1.47 %
MLC	Mandatory Learning Course	2	--	--
CCA	Co-curricular & Extra-curricular Activities	1	1	1.47 %
Total		24	68	100%

PG Program [M. Tech. M. Tech. Electronics and Telecommunication – Wired and Wireless Communication]

Proposed Curriculum Structure

Semester I

Sr. No.	Course Category	Course Code	Course Name	Teaching Scheme				Credits
				L	T	P	S	
1.	PSMC	PSMC-01	Applied Mathematics	3	1	--	1	4
2.	PSBC	PSBC-01	Communication Networks and Protocols	3	--	--	1	3
3.	PCC	PCC-01	Digital communication	3	--	--	--	3
4.	PCC	PCC-02	Wireless Communications & Mobile Technologies	3	--	--	--	3
5.	LC	LC-01	Digital Communication Lab	--	--	3	2	2
6.	LC	LC-02	Wireless Communications & Mobile Technologies Lab	--	--	3	2	2
	LC	LC-03	Programming and Network Simulation Lab	--	--	2	1	1
7.	AEC	AEC-01	Seminar	--	--	2	2	1
8.	PEC	PEC-01	Program Specific Elective –I a) Cognitive Radio b) RF and Microwave Circuit Design c) Embedded System Design	3	--	--	1	3
9.	MLC	MLC-01	Research Methodology and Intellectual Property Rights	--	--	--	2	--
10.	MLC	MLC-02	Effective Technical Communication Skills	--	--	--	1	--
Total				15	01	10	13	22

**PG Program [M. Tech. Electronics and Telecommunication – Wired and Wireless Communication]
Proposed Curriculum Structure**

Semester II

Sr. No.	Course Category	Course Code	Course Name	Teaching Scheme				Credits
				L	T	P	S	
1.	OE	OE-01	Open Elective Interdisciplinary Open Course	3	--	--	1	3
2.	PCC	PCC-03	AI Techniques for Communication systems	3	--	--	--	3
3.	PCC	PCC-04	Smart Antennas	3	--	--	--	3
4.	PCC	PCC-05	Connected Systems and Cloud Computing	2	1	--	--	3
5.	LC	LC-03	AI Techniques for Communication systems Lab	--	--	2	2	1
6.	LC	LC-04	Smart Antennas Lab	--	--	2	2	1
7.	LC	LC-05	Connected Systems and Cloud Computing Lab	--	--	2	2	1
8.	PEC	PEC-02	Program Specific Elective –II a) Wireless Sensor Network b) Radar and Satellite Communication c) Advanced Digital Signal Processing	3	--	--	1	3
9.	PEC	PEC-03	Program Specific Elective –III a) Programmable networks-SDN, NFV b) Optical Communication and Networks c) Wireless Standards and Security	3	--	--	1	3
10.	CCA	CCA-01	Liberal Learning Course	--	--	2	2	1
Total				17	01	08	11	22

- Exit option to qualify for **PG Diploma in Wired and Wireless Communication**:
- Eight weeks domain specific industrial internship in the month of June-July after successfully completing first year of the program.

PG Program [M. Tech. M. Tech. Electronics and Telecommunication – Wired and Wireless Communication]

Proposed Curriculum Structure

Semester-III

Sr. No.	Course Category	Course Code	Course Name	Teaching Scheme				Credits
				L	T	P	S	
1.	VSEC	VSEC-01	Dissertation Phase – I	--	--	18	12	9
2.	SLC	SLC-01	Massive Open Online Course –I	3	--	--	3	3
Total				3	--	18	15	12

Semester-IV

Sr. No.	Course Category	Course Code	Course Name	Teaching Scheme				Credits
				L	T	P	S	
1.	VSEC	VSEC-02	Dissertation Phase – II	--	--	18	12	9
2.	SLC	SLC-02	Massive Open Online Course – II	3	--	--	3	3
Total				3	--	18	15	12