

Mapping of POs with each course of MTech in ECE with different specialization

POs for MTech in ECE (Signal Processing)

PO1: Ability to apply the knowledge of science, mathematics, and engineering principles for developing problem solving attitude.

PO2: Ability to identify, formulate and solve engineering problems in the signal processing areas such as Developing robust and problem specific algorithms for acquisition, processing, analysis, synthesis of signals, to be applied in Signal Processing, Machine Vision and Communication Networks.

PO3: Ability to understand and use different software tools in the domain of signal processing. Analysis and Verification of algorithms, Functional and timing Simulation on platforms like MATLAB, code composer studio and assembly language.

PO4: Ability to design and conduct experiments, analyze and interpret data, imbibe programming skills for development of simulation experiments.

PO5: Ability to function as a member of a multidisciplinary team with sense of ethics, integrity and social responsibility.

Sl. No.	Course Type	COURSE	PO1	PO2	PO3	PO4	PO5	Remarks
1	Core 1	ECAP0053	H	H	H			Employability
2	Core 2	ECDV0054	M	H	H	M	L	Employability
3	Core	ECRM0042	L			M	H	
4	Audit 1	EGRW0015				L	M	
5	Prog. Specific Elective I	ECAU0055		H	H	M		Skill Development
6		ECCV0056		H	H	M	L	Skill Development
7		ECAA0057		H	H	M		Employability
8	Prog. Specific Elective II	ECSI0058	M	H	M	M		
9		ECVD0059	M	H	M	M		Skill Development
10		ECVC0060	L	H	H	H		Employability
11	Lab1	ECAP6041	M	H	H	H		
12	Lab2	ECDV6042	M	H	H	H		
13	Core 3	ECPM0069	L	H	H	H	L	Skill Development
14	Core 4	ECDE0070	M	H	M	M		
15	Prog. Specific Elective III	ECIA0071	M	H	M	H	H	Entrepreneurship
16		ECDD0072	H	M	H	L		Skill Development
17	Prog. Specific Elective IV	ECBS0073	M	H	H	H	M	Skill Development
18		ECDS0074	M	H	H			Employability
19	Lab3	ECPM6045	L	H	H	H	M	
20	Lab4	ECDE6046	M	M	H	H	M	
21	Project	ECMI6051	M	M	H	H	H	
22	Audit 2 (MOOCs)	EDCI0100					M	
23	Prog. Specific Elective V	ECAI0096	M	H	H	H	L	
24		ECOT0097	M	H	H	H		
25		ECRS0098	M	H	H	H	L	

26	Open Elective	ECCM0101	M	H				
27	Dissertation (Phase I & II)	ECDI6059	M	M	H	H	H	

POs for MTech in ECE (Communications)

PO1: Ability to apply the knowledge of science, mathematics, and engineering principles for developing problem solving attitude

PO2: Ability to identify, formulate and solve engineering problems in the broad areas like Systems Design using communication and networking platforms and tools. Explore recent developments in areas like optical communication, satellite communication, wireless communication, networking, RF-microwave, antennas, measurements and standards in communication.

PO3: Ability to understand and use different software tools for Design, Analysis and Verification in the domain of communication and networking. System results are obtained through progressive steps such as Design entry, Synthesis, Functional and Timing Simulation.

PO4: Ability to design and conduct experiments, analyze and interpret data, imbibe programming skills for development of simulation experiments.

PO5: Ability to function as a member of a multidisciplinary team with sense of ethics, integrity and social responsibility

Sl. No.	Course Type	COURSE	PO1	PO2	PO3	PO4	PO5	Remarks
1	Core 1	ECAP0053	H	M	H			Employability
2	Core 2	ECWM0061	M	H		M		Employability
3	Core	ECRM0042	L			M	H	
4	Audit 1	EGRW0015				L	M	
5	Prog. Specific Elective I	ECSC0062	M	H	M			Skill Development
6		ECWN0063	L	H	H	H		Employability
7		ECON0064	L	H	H			Employability
8	Prog. Specific Elective II	ECCR0065		H	M			
9		ECSI0058	M	M	H	M		Skill Development
10		ECRC0066	M	H				
11	Lab1	ECAP6041	M	M	H	H		
12	Lab2	ECWM6043	M	H	H			
13	Core 3	ECRS0075	M	H	H	M		Skill Development
14	Core 4	ECCN0076		H	M			
15	Prog. Specific Elective III	ECDS0074	M	H	M	H	H	Entrepreneurship
16		ECIA0071	H	M	H	L		Skill Development
17	Prog. Specific Elective IV	ECPM0069	L	H	H	H		Skill Development
18		ECMS0077	M	H	H			Employability

19	Lab3	ECRS6047	M	M	H	H	M	
20	Lab4	ECCN6048	M	M	H	H	M	
21	Project	ECMI6051	M	M	H	H	H	
22	Audit 2 (MOOCs)	EDCI0100					M	
23	Prog. Specific	ECAI0096	M	M	H	H	L	
2	Elective V	ECOT0097	M	H	H	H		
25		ECRS0098	M	H	H	H		
26	Open Elective	ECCM0101	M	H				
27	Dissertation (Phase I & II)	ECDI6059	M	M	H	H	H	

POs for MTech in ECE (VLSI and Embedded System)

PO1: Apply the knowledge of science, mathematics, and engineering principles for developing problem solving attitude.

PO2: Identify, formulate and solve engineering problems in the broad areas like System Design using VLSI and Embedded Platforms and tools, Semiconductor Technologies, Applications in Signal Processing, Machine Vision and Communication Networks.

PO3: Use different software tools in the domain of VLSI and Embedded Systems Design, Analysis and Verification such as Design entry, Synthesis, Functional and Timing Simulation, Floor-planning, Place and route, Layout editors, RTL schematic, Platform specific EDA sets, MATLAB.

PO4: Design and conduct experiments, analyze and interpret data, imbibe programming skills for development of simulation experiments.

PO5: Function as a member of a multidisciplinary team with sense of ethics, integrity and social responsibility.

Sl. No.	Course Type	COURSE	PO1	PO2	PO3	PO4	PO5	Remarks
1	Core 1	ECAP0053	H	H	H	L		Employability
2	Core 2	ECMA0067	M	M	H	M		Employability
3	Core	ECRM0042	L			M	H	
4	Audit 1	EGRW0015				L	M	
5	Prog. Specific	ECPP0068	M	H	H			
6	Elective I	ECAA0057		H	H	M		Employability
7	Prog. Specific	ECWM0061	M	H		M		Employability
8	Elective II	ECDV0054	M	H	H	M	L	Employability
9	Lab1	ECAP6041	M	H	H	H	M	
10	Lab2	ECMA6044	M	H	H	H	M	
11	Core 3	ECDS0074	M	H	H			Employability
12	Core 4	ECSA0078	M	M	H	M	L	Employability
13	Prog. Specific Elective III	ECDD0072	H	M	H	L		Skill Development
14		ECIA0071	M	H	M	H	H	Entrepreneurship
15	Prog. Specific	ECMT0079	M	H	M			Employability
16	Elective IV	ECBS0080	M	H	H			

17	Lab3	ECDS6049	M	H	H	H	M	
18	Lab4	ECSA6050	M	H	H	H	M	
19	Project	ECMI6051	M	M	H	H	H	
20	Audit 2 (MOOCs)	EDCI0100					M	
21	Prog. Specific	ECAI0096	M	H	H	H	L	
22	Elective V	ECNN0099	M	H		H		
23		ECSD0100	M	H	H	H		
24	Open Elective	ECCM0101	M	H				
25	Dissertation (Phase I & II)	ECDI6059	M	M	H	H	H	