

M.TECH LABORATORIES AND RESEARCH FACILITIES

Adequate and well equipped laboratories in area of Program specialization

The Program has well-equipped computer laboratories for course work, teaching and to carry out projects. The servers and nodes are all connected in the network with all necessary licensed software. Exposure to cutting edge technologies is provided by means of Industrial Projects and technical talks from domain experts of reputed research organizations.

Laboratory Infrastructure				
Sr. No	Name of the Laboratory	Specialized Equipment	Equipment details	Utilization details from the perspective of PO attainment
1	Advance Optical Communication Lab Sem 1	SciTech 2502 Kit with Power Supply cord 02 (no.s)	Optical Fiber cable Digital Storage Oscilloscope with necessary connecting probe, LED Detector , Optical Meter	Utilized to conduct experiments as per syllabus (PO 1)
		FSK (Frequency Shift key)	8-bit variable data Generator ST-2111 FSK modulator Kit ST-2106,FSK Demodulation kit ST-2107,CRO,CRO probe .	Utilized to conduct experiments as per syllabus(PO 1)
		PSK (Phase Shift Key Mod/Demodulator)	8-bit variable data Generator ST-2111 PSK modulator Kit ST-2106,PSK Demodulation kit ST-2107,CRO,CRO probe and connecting wire.	Utilized to conduct experiments as per syllabus(PO 1)

2	Advance Digital Communication Engineering lab Sem 1	PCM(Transmitter/Receiver Mod/Demod)	PCM Trainer kit	utilized to conduct lab experiments
		ASK (Amplitude Shift Key)	8-bit variable data Generator ST-8111 ASK modulator Kit ST-2106,ASK Demodulation kit ST-2107,CRO,CRO probe and connecting wire.	Utilized to conduct lab experiments(PO 1)
		PSK (Phase Shift Key Mod/Demod)	8-bit variable data Generator ST-2111 PSK modulator Kit ST-2106,PSK Demodulation kit ST-2107,CRO,CRO probe and connecting wire.	Utilized to conduct lab experiments(PO 1)
		FSK (Frequency Shift key)	8-bit variable data Generator ST-2111 FSK modulator Kit ST-2106,FSK Demodulation kit ST-2107,CRO, CRO probe	utilized to conduct lab experiments(PO 1)
		MATLAB Software	Campus wide license online 2024b	utilized to conduct lab experiments (PO1,PO4)
3.	Antenna Design Lab sem1	HFSS software 2025 Perpetual License	25 Students license 01Research license	for analyzing the output of circuits by observing waveform communications (PO3,PO4)
		Scintech 2261	Transmitter mast, Receiver Mast, MatchingRF Detector, Antenna kit , Antenna set & wire	

4	Modeling Simulation of Communication Sem 2			utilized to conduct lab experiments (PO1,PO4)
		MATLAB Software	Campus wide license online 2024 b	
		25 Computers DELL-5070	PC with Monitor, Keyboard & Mouse	
		24 Computers DELL-3070	PC with Monitor, Keyboard & Mouse	
5.	VLSI Design Lab sem 2	Cadence Level One software	03years License for 10 users, 10 computers	utilized to conduct lab experiments (PO1,PO3,PO4)