St. JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF ECE
Facilities in R and D Lab

Facility Name	Details	Application Areas
Communication Domain		
Matlab 2016a	Licensed Communication Tool Box	
EDFA setup	Pump laser 980 nm/100 mV Signal source 1550 nm/1Mv	Optical Signal Analysis
SDR	CommLAB-T Communication Systems Trainer	Digital communication based work
NS2	NS2 2.42 (Open Source)	Network Simulation
OPNET	OPNET 9.1 (Open Source)	Networking
Signal/ Image Processing		
Workstation-**1 No**	INTEL CORE i9, 11900 Processor , Seagate 2TB, 32GB DDR4 3200 MHz, Zotac, 3090 TRINITY OC Graphic card and HP Color Laser Jet Pro Printer	Satellite Image Processing
LAPTOP-1 No	HP -14'' – EC 1019 AU Ryzen – 5625U upto 4.35GHz, 16 GB RAM (2x8 GB), 512 GB SSD, Windows 11 MS office, 14 inch display	Data Pre-processing
Desktop-5 Nos	HP 280G4 MT DESKTOP Intel Core i7/8700/3.2GHZ/8 GB DDR 4 RAM 1 TB HDD/NO ODD/DOS / Keyboard / Mouse	Signal & Image Analysis
Matlab 2016a	Licensed Image Processing Tool Box	

Facility Name	Details	Application Areas
Matlab 2016a	Licensed Signal Processing Tool Box	
NI Lab view	NI Lab view software	
Python	(Open Source)	
VLSI Domain		
Xilinx VIVADO	Xilinx VIVADO System Suite – HLx Editions perpetual License -(25 user)	Synthesis and simulation of HDL program
Mentor graphics Higher Education Program (HEP1): IC Nano Meter Design Tools	Pyxis –Schematic Design Entry , Layout Editor Caliber –Physical Verification (DRC , LVS, PEX) AMS – Mixed mode VLSI Design Module 50 User Floating /Network(License for 3 year)	Simulation for analog mixed-signal design
ADSP	ADSP 2181	
Embedded Systems Domain		
Nuvoton ARM Processor	MP051	Embedded based system development
MSP430 trainer kit	MSP430 Development Board	