Vacancy of Full time PhD students in Electronics Engineering Department with the concerned faculty Members: July 2021

Sr. No.	Name of Faculty Member	Research Area in which FIR is intended to be taken
1.	Dr. P. N. Patel	1. Sensors Technologies : RF/MW, Optical 2. Antenna and Waveguides 3. Photonic Devices 4. DWDM Systems 5. Passive Optical Networks
2.	Dr. (Mrs.) U. D. Dalal	1. Wireless- Communication Technology 2. 5G Networks 3. Signal Processing 4. AI 5. Healthcare IoT/IoT
3.	Dr. P. K. Shah	1. Signal and Image Processing 2. Neural Networks and Deep Learning 3.Application of Adaptive Filter and Control Theory 5. Estimation and Detection Theory 6. Nonlinear Control Systems and Lyapunov Instability
4.	Dr. J. N. Sarvaiya	1. Biomedical Instrumentation 2. Signal and Image Processing
5.	Dr. A. D. Darji	1. Bio MEMS 2. DSP VLSI Architecture 3. Bio Medical Instrumentation 4. VLSI Design 5. FPGA Based System Design 6. VLSI Architecture for Machine Learning
6.	Dr. Z. M. Patel	1.RISC-V and SOC 2. Low Power Wireless PHY Baseband 3. Analog IC Design 4. High Performance Embedded Systems
7.	Dr. P. J. Engineer	1.Edge Computing 2.Application Specific Processor Design 3.Energy-Efficient Computing 4.VLSI Architecture for Real-Time Signal/Image Processing
8.	Dr. (Mrs.) R. N. Dhavse	1. Digital VLSI Design 2. Paper and Pencil Sensor Development 3. Novel Semiconductor Devices
9.	Dr. Abhilash Mandloi	1.Optical Communications 2. Optical Networks 3. Free Space Optics 4. Machine Learning for Optical Communication Systems 5. Signal Conditioning Circuits for Electronic Instrumentation and Sensors
10.	Dr. (Mrs.) J. N. Patel	1. Signal Processing 2. Communication 3. Image Coding
11.	Dr. (Mrs.) S. Gupta	1. MIMO Antenna for 5G Application 2. Free Space Optics 3. mm Wave / Massive MIMO System for 5G 4. MIMO Radar

12.	Dr. (Mrs.) S. N. Shah	1. NavIC/IRNSS Based System and Research 2. Jamming, Spoofing Detection and Mitigation 3. Precise Point Positioning 4. 5G Technology 5. Software-Defined Radio-based Wireless Communication
13.	Dr. K. P. Upla	1. Computer Vision and Image Processing
14.	Dr. Kirti Inamdar	1. Fractal Metamaterial based Wearable Antenna 2. Agricultural Waste based Microwave Absorbers 3. Development of RF Active and Passive Devices 4. Machine Learning in Antenna Designing 5. RF Energy Harvesting
15.	Dr. Deepak Joshi	1. AI/ML Based VLSI Circuit Optimization / Design 2. Development of Analog Circuit Optimization Framework based on Metaheuristics
16.	Dr. Kamal Captain	1. Cognitive Radio 2. Machine Learning for Wireless Communication 3. Signal Processing
17.	Dr. Suman Deb	1. Speech based Disease Diagnosis 2. Speech Emotion Analysis 3. Voice Conversion/Speaker Identity Conversion 4. Speech Pathology Analysis
18.	Dr. Abhishek Acharya	1. Device-Circuit Interactions in Nanoscale Transistors
19.	Dr. Vivek Garg	1. Optoelectronic Devices (Photovoltaics, Photodetectors) 2. Quantum Technology (Imaging, Sensing and Communication) 3. Energy Storage Devices (Supercapacitors and Fuel Cells) 4. Modelling of Nanoscale Devices, Atomistic Simulations
20.	Dr. Nithin Chatterji	1. Device Simulation and Modelling, Semiconductor Device Physics 2. Solar Photovoltaics 3. Memory Devices (DRAM)
21.	Dr. Shivendra Yadav	1. Modeling and Simulation of Micro Nano Semiconductor Devices 2. Application and Design of Nano Devices for Biomedical Applications 3. Linearity and High Frequency Parameter Analysis of Hetero-Material Nano Semiconductor Devices 4. Modeling and Simulation of Negative Capacitance in Ferroelectric Thin Films
22.	Dr. Raghavendra Pal	1. Vehicular Ad Hoc Networks 2. Machine Learning for Wireless Communication 3. Cognitive Radio Ad Hoc Networks 4. Internet of Vehicles 5. Medium Access Control in Wireless Ad Hoc Networks

NOTE:

FIR vacancy information shown above is for form filling purposes only. Mere fulfillment of eligibility conditions will not entitle the person to claim the FIR vacancy. Final decision regarding FIR admission will be from the Ph.D admission committee.

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