

**Faculty Profile**  
**Electronics & Telecommunication Department**



**Dr. Priteshkumar Shah**

Associate Professor, HOD E&TC

Ph.D., M.Tech., B.E.

Email: [headentc@sitpune.edu.in](mailto:headentc@sitpune.edu.in) & [pritesh.shah@sitpune.edu.in](mailto:pritesh.shah@sitpune.edu.in)

**Research Interests & Expertise:**

**Broad areas:**

- System Identification and control of various systems using machine learning

**Specific areas:**

- Fractional Calculus and its applications

**Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 15 Years

**Paper Published** : 42

**Patent Published** : 0

**Consultancy Project** : 0

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## **Prof. Sumit Kumar**

Professor, E&TC

Ph.D., M. Tech., B. Tech.

Email: [kumar.sumit@sitpune.edu.in](mailto:kumar.sumit@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Applied AI

#### **Specific areas:**

- Deep Learning
- IoT,
- Computer Vision
- Image Processing, Antenna

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 17 Years

**Paper Published** : 51

**Patent Published** : 1

**Consultancy Project** : 0

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## **Dr. Bhavna Ambudkar**

Professor, E & TC Engineering

D.Sc, Ph.D., M.Tech., B.E.

Email: [bhavna.ambudkar@sitpune.edu.in](mailto:bhavna.ambudkar@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Next Generation Networks
- \* Education Technology
- \* Innovation

#### **Specific areas:**

- Computer Networks
- Handover in cellular networks
- Network management in cellular communication
- Pedagogies
- \* Life sciences
- \* Biomedical electronics

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 25+ Years

**Paper Published** : 53

**Patent Published** : 8

**Consultancy Project** : 2

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## **Dr. Paresh Suresh Nasikkar**

Associate Professor E&TC

Ph.D., M.S., B.E.

Email: [paresh.nasikkar@sitpune.edu.in](mailto:paresh.nasikkar@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Renewable Energy Technologies and Electronics Instrumentation

#### **Specific areas:**

- Solar Photovoltaics Systems
- Solar PV materials
- Thin film PV solar cells and devices
- Electric Vehicle and batteries
- Wind Energy Technology

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher Id](#)

[Vidwan](#)

**Total work experience** : 15+ Years

**Paper Published** : 22

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Harikrishnan R.**

Associate Professor, E&TC

Ph.D., M. Tech., M.E., B.E.

Email: [harikrishnan.r@sitpune.edu.in](mailto:harikrishnan.r@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Embedded Systems and Energy

#### **Specific areas:**

- Internet of Things
- Data Analytics
- Artificial Intelligence
- Optimization

### **Research Profiles:**

Google Scholar : [Google Scholar](#)

ORCID : [ORCID](#)

ResearcherID/Publons: [Researcher ID](#)

Vidwan : [Vidwan](#)

**Total work experience** : 23 Years

**Paper Published** : 70

**Patent Published** : 3

**Consultancy Project** : 1

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## **Dr. Mrinal R. Bachute**

Associate Professor, E&TC  
Ph.D., M.E., B. E., Diploma  
Email: [mrinal.bachute@sitpune.edu.in](mailto:mrinal.bachute@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Signal Processing & Artificial Intelligence

#### **Specific areas:**

- Digital Signal Processing
- Image Processing
- Speech Processing Artificial Intelligence Machine Learning & Deep Learning

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 22 Years

**Paper Published** : 36

**Patent Published** : 2

**Consultancy Project** : 2

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## **Dr. Ujwala Anil Kshirsagar**

Associate Professor, E&TC

Ph.D., M. E., B.E, B.Sc.

Email: [ujwala.kshirsagar@sitpune.edu.in](mailto:ujwala.kshirsagar@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI Technology
- Embedded System Design
- Micro/ Nano Electronics Manufacturing

#### **Specific areas:**

- Low power circuit design using VLSI technology
- 5G Technology
- Fabrication of Nano Sensors
- Memory Design using VLSI Technology
- Agricultural development using IoT

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 23.5 Years

**Paper Published** : 17

**Patent Published** : 4

**Consultancy Project** : 2

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## **Dr. Kantipudi M.V.V. Prasad**

Associate Professor, E&TC

Ph.D., M. Tech., B.E.

Email: [prasad.kantipudi@sitpune.edu.in](mailto:prasad.kantipudi@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Signal & Image Processing with Machine Learning
- Security and privacy frameworks for IoT-based smart cities
- Machine Learning Models for Autonomous vehicles
- Green Energy Technologies

#### **Specific areas:**

- Signal & Image Processing with Machine Learning
- Security and privacy frameworks for IoT-based smart cities
- Machine Learning Models for Autonomous vehicles
- Green Energy Technologies

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Research ID](#)

[Vidwan](#)

**Total work experience** : 12 Years & 08 Months

**Paper Published** : 42

**Patent Published** : 4

**Consultancy Project** : 1

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## **Dr. Mangal Singh**

Associate Professor, E&TC  
Ph.D., M. Tech., B.E., Diploma  
Email: [mangal.singh@sitpune.edu.in](mailto:mangal.singh@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

• Signal Processing in Next Generation Wireless Systems

#### **Specific areas:**

• AI/ML based IoT systems

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 22 Years

**Paper Published** : 38

**Patent Published** : 4

**Consultancy Project** : 0

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## **Dr. Rizwan Ahmed Ansari**

Associate Professor, E&TC

Ph.D., M. Tech., B.E.

Email: [rizwan.ansari@sitpune.edu.in](mailto:rizwan.ansari@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Signal Processing
- Remote Sensing

#### **Specific areas:**

- Multiresolution Analysis
- Information Extraction

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 16 Years

**Paper Published** : 38

**Patent Published** : 0

**Consultancy Project** : 0

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**Dr. Marshiana D.**

Associate Professor, E&TC

Ph.D., M.E., B.E.

Email: [marshiana.d@sitpune.edu.in](mailto:marshiana.d@sitpune.edu.in)

**Research Interests & Expertise:**

**Broad areas:**

- Instrumentation
- Control System

**Specific areas:**

- Process Control
- Machine Learning
- Neural Networks
- Soft Computing

**Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 18 Years

**Paper Published** : 45

**Patent Published** : 1

**Consultancy Project** : 0

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## **Mr. Vijay Kumar Lamba**

Associate Professor, E&TC  
Ph.D., M. Tech., M.Sc. Diploma.  
Email: [vijay.lamba@sitpune.edu.in](mailto:vijay.lamba@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Flexible Electronics
- MEMS & NEMS

#### **Specific areas:**

- Organic Electronics
- Molecular Electronics

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 21 Years

**Paper Published** : 64

**Patent Published** : 0

**Consultancy Project** : 5

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## **Dr. Rahee Walambe**

Associate Professor, E&TC SCAAI

Ph.D., M.E., B.E.

Email: [rahee.walambe@sitpune.edu.in](mailto:rahee.walambe@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Applied Artificial Intelligence

#### **Specific areas:**

- Multimodal AI
- Explainable AI
- Robotics and Cognitive Neuroscience

### **Research Profiles:**

[Google Scholar](#)

[Orcid ID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 15 Years

**Paper Published** : 57

**Patent Published** : 0

**Consultancy Project** : 01

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## **Prof. Sushma Parihar**

Assistant Professor, E&TC

M. Tech., B.E. Diploma

Email: [sushmap@sitpune.edu.in](mailto:sushmap@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Power System
- Control System

#### **Specific areas:**

- Control system in biomedical
- Electrical Machines

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 14 Years

**Paper Published** : 04

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Priti Shahane**

Assistant Professor, E&TC

Ph.D., M.E., B.E.

Email: [pritis@sitpune.edu.in](mailto:pritis@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI Design
- Embedded Systems
- Internet of Things

#### **Specific areas:**

- AI algorithms on FPGA
- DSP and Image Processing Applications on FPGA
- IoT Applications in Agriculture

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 21.6 Years

**Paper Published** : 23

**Patent Published** : 1

**Consultancy Project** : 1

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## **Priyanka Tupe-Waghmare, Ph.D.**

Assistant Professor, E&TC  
Ph.D., M.E., M. Tech., MBS, B.E.

Email: [priyanka.tupe@sitpune.edu.in](mailto:priyanka.tupe@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Applied Artificial Intelligence
- Medical Image Analysis

#### **Specific areas:**

- Brain tumors
- Parkinson's Disease

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan18](#)

**Total work experience** : 13 Years

**Paper Published** : 17

**Patent Published** : 0

**Consultancy Project** : 2

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## **Dr. Shilpa M. Hudnurkar**

Assistant Professor, E&TC

Ph.D., M. Tech., B.E.

Email: [shilpa.hudnurkar@sitpune.edu.in](mailto:shilpa.hudnurkar@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Artificial Intelligence and machine learning,
- Embedded Systems

#### **Specific areas:**

- Weather and Climate variable analysis and prediction using AIML
- Summer monsoon rainfall studies

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 14 Years

**Paper Published** : 11

**Patent Published** : 0

**Consultancy Project** : 0

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## **Prof. Parag Suresh Narkhede**

Assistant Professor, E&TC

M. Tech., B.E.

Email: [parag.narkhede@sitpune.edu.in](mailto:parag.narkhede@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Embedded Systems and Robotics

#### **Specific areas:**

- Sensor Fusion
- Kalman Filter
- Microcontrollers
- Applications of Artificial Intelligence
- State Estimation

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Research ID](#)

[Vidwan](#)

**Total work experience** : 7 Years

**Paper Published** : 17

**Patent Published** : 2

**Consultancy Project** : 0

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## **Prof. Jayshree Pande**

Assistant Professor, E&TC

M. Tech., B.E.

Email: [jayshree.pande@sitpune.edu.in](mailto:jayshree.pande@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Renewable Energy
- Embedded Systems

#### **Specific areas:**

- Wind Energy

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 6.5 Years

**Paper Published** : 6

**Patent Published** : 0

**Consultancy Project** : 0

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## **Prof. Shripad V. Deshpande**

Assistant Professor, E&TC

M. Tech., PGD, B.Sc.

Email: [shripad.deshpande@sitpune.edu.in](mailto:shripad.deshpande@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Embedded Systems

#### **Specific areas:**

- Real Time Systems
- Microcontrollers
- RTOS
- Mobile Robotics

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 35 Years

**Paper Published** : 12

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Anurag Mahajan**

Assistant Professor, E&TC

Ph.D., M.E., B.E.

Email: [anurag.mahajan@sitpune.edu.in](mailto:anurag.mahajan@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI
- Digital Signal Processing
- Microwaves and Radar

#### **Specific areas:**

- ASIC/FPGA Implementation of Signal Processing algorithm.
- Antenna Design
- Signal Processing Algorithm for Optical Coherence Tomography

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 22 Years

**Paper Published** : 27

**Patent Published** : 1

**Consultancy Project** : 0

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## **Prof. Kunal Shejul**

Assistant Professor, E&TC

M. Tech., B. Tech.

Email: [kunal.shejul@sitpune.edu.in](mailto:kunal.shejul@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Power System
- Machines
- Electronics

#### **Specific areas:**

- Optimization
- Forecasting

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[ResearcherID](#)

[Vidwan](#)

**Total work experience** : 5 Years

**Paper Published** : 3

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Mohammad Faseehuddin**

Assistant Professor, E&TC

Ph.D., M. Tech., B. Tech.

Email: [mohammad.faseehuddin@sitpune.edu.in](mailto:mohammad.faseehuddin@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI
- Analog Signal Processing
- AI and ML techniques for Integrated Circuit Design and Optimization

#### **Specific areas:**

- Analog Signal Processing Circuits
- Low Voltage Low Power circuits
- Fractional order circuits
- Mixed mode filters
- MOS only circuits

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 7 years

**Paper Published** : 30

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Saffrine Kingsly**

Assistant Professor, E&TC

Ph.D., M.E., B.E.

Email: [saffrine.kingsly@sitpune.edu.in](mailto:saffrine.kingsly@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Microwave Engineering

#### **Specific areas:**

- Antennas and filter design
- Mimo
- 5G antennas
- Filtennas
- UWB

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 32 Months

**Paper Published** : 25

**Patent Published** : 13

**Consultancy Project** : 0

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## **Dr. Aditya Jain**

Assistant Professor, E&TC  
Post Doc., Ph.D., M. Tech., B.E.  
Email: [aditya.jain@sitpune.edu.in](mailto:aditya.jain@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Energy Storage Devices

#### **Specific areas:**

- Design and Development of modern transistors

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 8 years 10 month

**Paper Published** : 63

**Patent Published** : 0

**Consultancy Project** : 3

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## **Dr. Durgesh Nandan**

Assistant Professor, E&TC

Ph.D., M. Tech., B.E.

Email: [durgesh.nandan@sitpune.edu.in](mailto:durgesh.nandan@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI
- Signal Processing
- AI

#### **Specific areas:**

- VLSI architecture of AI applications
- Industrial applications of signal processing
- IoT architecture for real time data collection for applications

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 11 Years

**Paper Published** : 104

**Patent Published** : 5

**Consultancy Project** : 0

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## **Dr. Prabhat Thakur**

Assistant Professor, E&TC

Ph.D., M. Tech., B. Tech.

Email: [prabhat.thakur@sitpune.edu.in](mailto:prabhat.thakur@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Wireless Communication and IoT Networking

#### **Specific areas:**

- Next generation wireless communication and networking (5G/6G)
- Next generation connected environments in Industry 4.0 and Society 5.0.
- Spectral efficient designs using cognitive radio, non-orthogonal multiple access and multiple-input multiple output.
- Internet-of-Vehicles and Internet of Medical Things.
- Spectrum monitoring in cognitive radio communication systems.

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 10 Years

**Paper Published** : 70+

**Patent Published** : 1

**Consultancy Project** : 0

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## **Dr. Snehal Ajit Bhosale**

Assistant Professor, E&TC

Ph.D., M.E., B.E.

Email: [snehal.bhosale@sitpune.edu.in](mailto:snehal.bhosale@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Embedded System
- Data Science

#### **Specific areas:**

- Internet of Things
- Data Analytics

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 20 years

**Paper Published** : 25

**Patent Published** : 2

**Consultancy Project** : 0

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## **Dr. Amit Kukker**

Assistant Professor, E&TC

Ph.D., M. Tech., B. Tech.

Email: [amit.kukker@sitpune.edu.in](mailto:amit.kukker@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Biomedical Signal Processing
- AIML, Optimization

#### **Specific areas:**

- Biomedical Signal Processing
- AIML, Optimization
- Image Processing
- Control Systems

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 5.5 Years

**Paper Published** : 17

**Patent Published** : Nil

**Consultancy Project** : Nil

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## **Dr. Mousumi Bhanja**

Assistant Professor, E&TC

Ph.D., M. Tech., B. Tech.

Email: [mousumi.bhanja@sitpune.edu.in](mailto:mousumi.bhanja@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- Analog VLSI Circuit Design

#### **Specific areas:**

- Field Programmable Analog Array

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 4.5 Years

**Paper Published** : 23

**Patent Published** : 0

**Consultancy Project** : 0

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## **Dr. Chandan Kumar Choubey**

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Ph.D., M. Tech., B. Tech.

Email: [chandan.choubey@sitpune.edu.in](mailto:chandan.choubey@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI
- ML
- IoT

#### **Specific areas:**

- Circuit design
- ASIC Physical Design
- Machine Learning
- Internet of Things

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 11.5 Years

**Paper Published** : 8

**Patent Published** : 1

**Consultancy Project** : 0

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## **Dr. Sankit Ramkrishna Kassa**

Assistant Professor (SG), E&TC

Ph.D., M. Tech., B.E.

Email: [sankit.kassa@sitpune.edu.in](mailto:sankit.kassa@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- VLSI
- Data Science

#### **Specific areas:**

- Quantum-dot Cellular Automata
- Lab-on-a-Chip based circuits' design, simulation and fabrication

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Publons](#)

[Vidwan](#)

**Total work experience** : 10+ years

**Paper Published** : 35

**Patent Published** : 3

**Consultancy Project** : 0

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## **Dr. Krithikaa Mohanaragam**

Assistant Professor, E&TC

Ph.D., M.S., B.E.

Email: [krithikaa.mohanaragam@sitpune.edu.in](mailto:krithikaa.mohanaragam@sitpune.edu.in)

### **Research Interests & Expertise:**

#### **Broad areas:**

- **Implantable Medical Devices (IMDs)**
- **electromagnetism, wireless power transfer (WPT) techniques**
- **assistive wearable biosensors**
- **TMS device**

#### **Specific areas:**

- **Electromagnetism**
- **wireless power transfer (WPT) technique**

### **Research Profiles:**

[Google Scholar](#)

[ORCID](#)

[Researcher ID](#)

[Vidwan](#)

**Total work experience** : 12 months

**Paper Published** : 4

**Patent Published** : 0

**Consultancy Project** : 0

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