

# **The National Institute of Engineering**

(Autonomous Institute, Affiliated to VTU)

**Mysuru**



ESTD : 1946

## **List of Research Supervisors**



**Center for Research and Development (NIE-CRD)**

**The National Institute of Engineering**

**Mysuru**

## List of Departments

<b>Sl. No.</b>	<b>Departments</b>
1	Civil Engineering
2	Chemistry
3	Mathematics
4	Computer Science and Engineering
5	Industrial & Production Engineering
6	Mechanical Engineering
7	Electrical and Electronics Engineering
8	Electronics and Communication Engineering
9	Physics

## Department of Civil Engineering

### List of Research Supervisors

#### **Dr. N. C. Balaji**

Associate Professor  
balajinc@nie.ac.in



- Building Energy Performance and Thermal Comfort
- Sustainable Low Carbon & Efficient Building Materials
- Rural Transitional Studies (Building Typologies & Materials)
- Building Fire Safety
- Structural Repair & Retrofitting

#### **Dr. Y. M. Manujanth**

Professor  
ymm@nie.ac.in



- Concrete subjected to elevated temperature

## **Dr. M. S. Ganesh Prasad**

Professor & Vice Principal  
ganeshprasad@nie.ac.in



- Digital Image Classification
- Uncertainty Modelling
- Geospatial technology applications to water resources engineering
- Disaster management

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## **Dr. Gourav K.**

Assistant Professor  
gourav@nie.ac.in



- Structural Masonry
- Clay and Stabilized Soil Products for Construction
- Energy Efficient & Low Carbon Building Technologies and Recycling & Reuse of Solid Wastes for Building Applications

## **Dr. Punit B. Kotagi**

Assistant Professor  
punithbkotagi@nie.ac.in



- Traffic Simulation and Modeling
- Transportation Planning
- Pavement Materials and Design
- Road Safety

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## **Dr. Abhishek A Pathak**

Assistant Professor  
abhishekipathak@nie.ac.in



- Water Resources Engineering,
- Surface Water Hydrology,
- Remote Sensing and GIS applications in water resources engineering,
- Hydro-Climatic extremes,
- Field and Urban Hydrology,
- Multivariate Statistics and AI/ML applications in Water Resources and Remote Sensing,
- Field and Urban Hydrology,
- Impact of Climate Change on the hydrological cycle

## **Dr. Vasanth Keshav**

Assistant Professor  
vasanthkeshav@nie.ac.in



- Finite element method
- Laminated composite materials
- Plates and shells
- Stability of laminated composites
- Failure of laminated composites

## Department of Chemistry

List of Research Supervisors

Faculty	Research Areas
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### Dr. Lakshmi Ranganatha V

Assistant Professor  
lranganath.v@nie.ac.in



- Synthetic organic and medicinal chemistry
- Nanomaterials synthesis and applications
- Single X-ray crystallography

### Dr. Sangamesha M A



Assistant Professor  
sangamesha.ma@nie.ac.in



- Nanomaterials for sensors and Energy harvesting devices.
- Biodegradable nanocomposites for agriculture applications
- Thin film solar cells

## Department of Mathematics

List of Research Supervisors

Faculty	Research Areas
<p><b>Dr. Shubha Nagaraj</b></p> <p>Associate Professor shubhanagaraj@nie.ac.in</p> 	<ul style="list-style-type: none"><li>• Fluid Mechanics</li><li>• Nanotechnology</li></ul>
<p><b>Dr. Shivarajkumar</b></p> <p>Associate Professor shivarajmacs@nie.ac.in</p> 	<ul style="list-style-type: none"><li>• Number theory Combinatory</li></ul>

### **Dr. Roopa S V**

Professor  
svrroopa@nie.ac.in



- Graph theory & Number theory

### **Dr. Santhosh H B**

Assistant Professor  
santhoshhb@nie.ac.in



- Fluid Mechanics

### **Dr. Bhuvan E Nalige**

Assistant Professor  
bhuvanenalige@nie.ac.in



- Number theory

## Department of Computer Science & Engineering

### List of Research Supervisors

Faculty	Research Areas
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#### Dr. Vidya Raj C

Professor & Dean (AA)  
vidyarajc@nie.ac.in



- Quantum Computing
- Quantum Communication
- High Speed Computer Networks
- Body Area Sensor Networks
- Cloud Infrastructure
- IoT, LiFi flow control protocols
- Social IoT

#### Dr. K Raghuveer

Professor  
raghu@nie.ac.in



- Data Science & Analytics

#### Dr. S Kuzhalvaimozhi

Professor  
kuzhali\_mozhi@nie.ac.in



- Cryptography and Cyber security

### **Dr. Shabana Sultana**

Professor  
shabana@nie.ac.in



- Wireless Networks
- Machine Learning

### **Dr. Jayasri B S**

Professor  
jayasribs@nie.ac.in



- Wireless Sensor Networks
- Artificial Intelligence & Machine Learning

### **Dr. Rekha K S**

Associate Professor  
rekhakowdle@nie.ac.in



- Wireless Sensor Networks & IoT
- Machine Learning & AI
- Blockchain Technology
- Cloud Computing

## Dr. Bhat Geetalaxmi Jairam

Professor

[bgj@nie.ac.in](mailto:bgj@nie.ac.in)



- IoT
- Wireless Networks
- Natural Language Processing

## Dr. Annapurna V K

Professor

[annapurnavk@nie.ac.in](mailto:annapurnavk@nie.ac.in)



- High-speed Networks and Game Theory

## Dr. Vatsala B R

Associate Professor

[vatsalabr@nie.ac.in](mailto:vatsalabr@nie.ac.in)



- IoT, Machine Learning
- Cyber Security, Cloud Computing
- Computer Networks

### **Dr. Narender M**

Associate Professor  
narendernie@gmail.com



- Machine Learning
- Cyber Security
- Computer Networks

### **Dr. Lokesh S**

Associate Professor  
lokesh.sl29@nie.ac.in



- Machine Learning & AI
- Wireless Sensor Networks
- Computer Networks

### **Dr. Suhaas K P**

Associate Professor  
suhaaskp@nie.ac.in



- Computer Networks
- Block chain Technology
- Software Engineering
- Cyber Security
- Cloud Computing

## **Dr. Shashank Dhananjaya**

Associate Professor  
shashank@nie.ac.in



- Machine Learning & AI
- Cloud Computing
- Wireless Networks

## **Dr. Ananth G S**

Associate Professor  
Ananth.gouri@nie.ac.in



- Machine Learning
- Data Mining
- Recommender Systems

# Department of Industrial & Production Engineering

List of Research Supervisors

**Faculty**

**Research Areas**

**Dr. H N Divakar**

Professor

[hndivakar@nie.ac.in](mailto:hndivakar@nie.ac.in)



- Thin Film Coating,
- Lean Manufacturing System,
- CAD/CAM/CIM

## Department of Mechanical Engineering

List of Research Supervisors

Faculty

Research Areas



### Dr. Prakash K R

Professor & Head

Department of Mechanical Engineering

The National Institute of Engineering

Mysuru

Contact: 8105473206

Email: [hodmech@nie.ac.in](mailto:hodmech@nie.ac.in)

Research Area: Automation & control, Material coating, sensor materials, Robotics & IoT.

### Dr. Aravindrao M Yadwad

Professor

[amyadwad@nie.ac.in](mailto:amyadwad@nie.ac.in)



- Composite Materials
- Energy Engineering
- Production Engineering
- Management

### Dr. Huluguppa B

Associate Professor

[bhmech@nie.ac.in](mailto:bhmech@nie.ac.in)



- Composite Materials

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**Dr. Yogesha K K.**

Associate Professor  
yogeshakk@nie.ac.in



- Material processing and Characterization
- Preparation of bulk nanostructured metals and alloys and nanocomposites and their Fatigue and Fracture studies
- IC Engines
- Automotive Engineering

**Dr. Imran M Jamadar**

Associate Professor  
imjamadar@nie.ac.in



- Vibration based condition monitoring of rotating machinery and vibration control.
- Development of mathematical models
- Gearbox fault diagnosis

**Dr. Anand A**

Assistant Professor  
anand@nie.ac.in



- Additive Manufacturing
- Finite Element Methods
- Fracture Mechanics
- Biofuels

### **Dr. Sharath Chandra N**

Assistant Professor  
sharath.chandra@nie.ac.in



- Product Design
- New Product Development
- Technology Management
- Technology Transfer

### **Dr. Sathisha H M**

Assistant Professor  
sathishahm@nie.ac.in



- Energy storage systems (Redox flow batteries)
- Heat and mass transfer analysis of vegetables and fruits
- Heat treatment processes simulation
- Computational Fluid Dynamics
- Renewable energy systems

### **Dr. Harshavardhan B.**

Assistant Professor  
harshavardhanb@nie.ac.in



- Composite materials
- Modeling and analysis of mechanical systems
- Vibration studies in mechanical structures

**Dr. Tejappanavara**

**Raghavendra**

Assistant Professor

[tejappanavararaghavendra@nie.ac.in](mailto:tejappanavararaghavendra@nie.ac.in)



- Processing of polymer matrix composites
- Natural fiber reinforced composites
- Additive Manufacturing

**Dr. Prithvi C.**

Assistant Professor

[prithvi.mech@nie.ac.in](mailto:prithvi.mech@nie.ac.in)



- Design Engineering
- Mechanical vibrations
- FEA

**Dr. Vikram Athreya V**

Assistant Professor

[va.mech@nie.ac.in](mailto:va.mech@nie.ac.in)



- Electric Vehicles
  - Renewable Energy
  - Microgrids
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**Dr. Latha B M**

Assistant Professor

[lathabm@nie.ac.in](mailto:lathabm@nie.ac.in)



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- Engineering Management
  - Manufacturing Processes
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# Department of Electrical & Electronics Engineering

List of Research Supervisors

Faculty	Research Areas
<p><b>Dr. Pradeepa H</b></p> <p>Associate Professor pradeep3080@nie.ac.in</p> 	<ul style="list-style-type: none"><li>• Microgrids</li><li>• Power System Stability</li><li>• Smart Grids</li></ul>
<p><b>Dr. R Chidanandappa</b></p> <p>Associate Professor chidananda@nie.ac.in</p> 	<ul style="list-style-type: none"><li>• Power Electronics Applications in Power Systems</li><li>• Battery Management System</li></ul>

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**Dr. Likith kumar M V**

Associate Professor & Head IQAC  
likith@nie.ac.in



- AI Applications in Power Systems
- Microgrids
- Power Quality

**Dr. B R Ananthapadmanabha**

Associate Professor  
ananthpbr@nie.ac.in



- Improved Power Quality Converters
- Drives

**Dr. Jayasankar V N**

Assistant Professor  
jayasankarvn@nie.ac.in



- Power Quality
  - Grid Integration of Renewables
  - Virtual Inertia Control
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## **Dr. Rohit K Mathew**

Assistant Professor

rohitkmathew@nie.ac.in



- Renewable Energy
- Power System Restoration
- Power System Protection
- Power Grid Resilience
- Smart Grids

## Department of Electronics and Communication Engineering

### List of Research Supervisors



**Dr. ROHINI NAGAPADMA**

**Principal**

- [rohini\\_nagapadma@nie.ac.in](mailto:rohini_nagapadma@nie.ac.in)

**Area of Specialization:**

- **Signal Processing,**
- **Embedded Systems.**



**Dr. NARASIMHA KAULGUD**

**Professor**

- [narasimha.kaulgud@nie.ac.in](mailto:narasimha.kaulgud@nie.ac.in)

**Area of Specialization:**

- **Signal Processing,**
- **Multicore,**
- **Quantum Computing.**



**Dr. S PARAMESHWARA**

**Associate Professor and Head, Department of ECE**

- [param2004@nie.ac.in](mailto:param2004@nie.ac.in)
- [echod@nie.ac.in](mailto:echod@nie.ac.in)

**Area of Specialization:**

- **Nano Technology,**
- **VLSI and Embedded Systems,**
- **IoT and Sensors.**



**Dr. C ANJANAPPA**

**Associate Professor**

- [anjanappa\\_ecn@nie.ac.in](mailto:anjanappa_ecn@nie.ac.in)

**Area of Specialization:**

- VLSI technology,
- Signal Processing,
- Medical Imaging,
- IoT and Embedded Systems.



**Dr. SHASHIDHARA H R**

**Associate Professor**

- [shashidharahr@nie.ac.in](mailto:shashidharahr@nie.ac.in)

**Area of Specialization:**

- ASIC/SoC Design Verification,
- Neuromorphic Computing,
- Network on Chip Design,
- Fault tolerant techniques for High performance computing systems,
- In-Memory and Memcomputing techniques.



**Dr. NAGARAJU C**

**Assistant Professor**

- [nagaraj@nie.ac.in](mailto:nagaraj@nie.ac.in)

**Area of Specialization :**

- **Signal Processing,**
- **Medical Imaging,**
- **VLSI and Communication Systems.**
- **IoT and Embedded Systems**



**Dr. RAJALEKSHMI KISHORE**

**Associate Professor**

- [rajalekshmikishore@nie.ac.in](mailto:rajalekshmikishore@nie.ac.in)

**Area of Specialization:**

- **Communication Systems (Physical layer),**
- **wireless communications,**
- **Energy Efficiency analysis,**
- **Ambient Backscatter communication,**
- **UAV based communication in 5G.**



**Dr. VIJAY B T**

**Assistant Professor**

- [vijaybt@nie.ac.in](mailto:vijaybt@nie.ac.in)

**Area of Specialization:**

- **Wireless Networks,**
- **Wireless Communication,**
- **QoS for Wireless Networks,**
- **Digital Communication.**



**Dr. REMYA JAYACHANDRAN**

**Assistant Professor**

- [remyajayachandran@nie.ac.in](mailto:remyajayachandran@nie.ac.in)

**Area of Specialization:**

- **Analog Circuit Design,**
- **VLSI Design,**
- **In Memory Computing.**



**Dr. RAGHU J**

**Assistant Professor**

- [raghuj@nie.ac.in](mailto:raghuj@nie.ac.in)

**Area of Specialization:**

- **Target Tracking,**
- **Radar Signal Processing,**
- **Signal Processing and Communication.**

## **Dr. Sharmila B S**

Assistant Professor  
sharmilabs@nie.ac.in



- IoT & AI
- Cyber Security
- Ethical Hacking

## **Dr. Kavitha S S**

Assistant Professor  
kavithaece@nie.ac.in



- ML & AI
- Quantum Computing
- Quantum Machine Learning

## Department of Physics

List of Research Supervisors

Faculty	Research Areas
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### Dr. Chandra

Assistant Professor  
chandru@nie.ac.in



- single crystal X-ray crystallography
- structure based drug discovery

### Dr. Deepar Urs M V

Associate Professor  
deepaurs@nie.ac.in



- Condensed matter Physics
- Positron annihilation Spectroscopy

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**Dr. Parameswara P**

Assistant Professor,  
paramphysics@nie.ac.in



- structure-property relationship of polymers and their composite analogues.
- Novel synthesis, characterization and X-ray data modelling of diverse synthetic and natural polymers and their composites and/or nanocomposites

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**Dr. Sankarshan B M**

Assistant Professor,  
Sankarshan.bm@gmail.com



- Material Science
  - Nanotechnology
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