The National Institute of Engineering

(Autonomous Institute, Affiliated to VTU)

Mysuru

List of Research Supervisors

2023-24

Center for Research and Development (NIE-CRD)
The National Institute of Engineering
Mysuru
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Departments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Civil Engineering</td>
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<tr>
<td>2</td>
<td>Chemistry</td>
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<tr>
<td>3</td>
<td>Mathematics</td>
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<tr>
<td>4</td>
<td>Computer Science and Engineering</td>
</tr>
<tr>
<td>5</td>
<td>Industrial &amp; Production Engineering</td>
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<td>6</td>
<td>Mechanical Engineering</td>
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<td>7</td>
<td>Electrical and Electronics Engineering</td>
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<td>8</td>
<td>Electronics and Communication Engineering</td>
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<tr>
<td>9</td>
<td>Physics</td>
</tr>
</tbody>
</table>
### Department of Civil Engineering

**List of Research Supervisors (2023-24)**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Yusuf Javeed</td>
<td><strong>Concrete subjected to elevated temperature</strong></td>
</tr>
<tr>
<td>Professor &amp; Head of The Department</td>
<td>Department of Civil Engineering</td>
</tr>
<tr>
<td>The National Institute of Engineering</td>
<td>Mysuru</td>
</tr>
<tr>
<td>Contact: +91 0821-4004903</td>
<td>Email: <a href="mailto:hodcivil@nie.ac.in">hodcivil@nie.ac.in</a></td>
</tr>
</tbody>
</table>

| Dr. Y. M. Manujanth            | • Concrete subjected to elevated temperature      |
| Professor                     | ymm@nie.ac.in                                      |

| Dr. M. S. Ganesh Prasad       | • Digital Image Classification                     |
| Professor & Vice Principal    | • Uncertainty Modelling                            |
| ganeshprasad@nie.ac.in        | • Geospatial technology applications to water resources engineering |
|                               | • Disaster management                              |
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. 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. Punit B. Kotagi
Assistant Professor
punithbkotagi@nie.ac.in

- Traffic Simulation and Modeling
- Transportation Planning
- Pavement Materials and Design
- Road Safety
Dr. Anand M. Hulagabali
Assistant Professor
anandmh@nie.ac.in

- Geotechnical Engineering
- Reinforced Earth Structures and Geosynthetics
- Ground Improvement Techniques
- Deep Excavation and Landslide Analysis
- Computational Geomechanics
- Soil-Structure Interaction Studies
- Deep Foundations
- Geotechnical Earthquake Engineering

Dr. Chandan M. C.
Assistant Professor
chandanmc@nie.ac.in

- Urbanization and urban sprawl analysis using Geospatial data
- Urban sustainability transitions and modelling
- Urban infrastructure data mining
- Artificial intelligence and machine learning applications to land use modelling
- Applications of Geoinformatics and UAV in Civil Engineering applications
- Special focus on Agriculture water resource management and Watershed management
Dr. Abhishek A Pathak
Assistant Professor
abhishekpathak@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 (2023-24)**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dr. P M Ramdas Bhandarkar</strong>&lt;br&gt;Professor &amp; Head of The Department&lt;br&gt;Department of Chemistry&lt;br&gt;The National Institute of Engineering&lt;br&gt;Mysuru&lt;br&gt;Contact:&lt;br&gt;Email: <a href="mailto:pmrbhandarkar@nie.ac.in">pmrbhandarkar@nie.ac.in</a></td>
<td></td>
</tr>
<tr>
<td><strong>Dr. Lakshmi Ranganatha V</strong>&lt;br&gt;Assistant Professor&lt;br&gt;<a href="mailto:lranganath.v@nie.ac.in">lranganath.v@nie.ac.in</a></td>
<td>• Synthetic organic and medicinal chemistry&lt;br&gt;• Nanomaterials synthesis and applications&lt;br&gt;• Single X-ray crystallography</td>
</tr>
<tr>
<td><strong>Dr. Sangamesha M A</strong>&lt;br&gt;Assistant Professor&lt;br&gt;<a href="mailto:sangamesha.ma@nie.ac.in">sangamesha.ma@nie.ac.in</a></td>
<td>• Nanomaterials for sensors and Energy harvesting devices.&lt;br&gt;• Biodegradable nanocomposites for agriculture applications&lt;br&gt;• Thin film solar cells</td>
</tr>
</tbody>
</table>
### Department of Mathematics
List of Research Supervisors (2023-24)

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Research Areas</th>
</tr>
</thead>
</table>
| **Dr. Shubha Nagaraj**  
Associate Professor  
shubhanagaraj@nie.ac.in  

- Fluid Mechanics  
- Nanotechnology  

| Dr. Shivarajkumar  
Associate Professor  
shivarajmacs@nie.ac.in  

- Number theory Combinatory  

Dr. Shubha Nagaraj  
Associate Professor  
shubhanagaraj@nie.ac.in
Dr. Roopa S V  
Professor  
svroopa@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
Dr. Yuvaraju B N
Professor & Head of The Department
Department of Computer Science & Engineering
The National Institute of Engineering
Mysuru
Contact: +91 0821-4004382
Email: hodcse@nie.ac.in

Dr. Yuvaraju B N
Professor
hodcse@nie.ac.in
- Wireless Networks
- Software Defined Networks & Security
- Cognitive Radio Networks

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. Abhinandan S P  
Associate Professor  
abhinandansp@nie.ac.in  
- Computer Science

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

- IoT
- Wireless Networks
- Natural Language Processing

Dr. Annapurna V K
Professor
annapurnavk@nie.ac.in

- High-speed Networks and Game Theory
Dr. H N Divakar
Professor & Head of The Department
Department of Industrial & Production Engineering
The National Institute of Engineering
Mysuru
Contact: 8861276367
Email: iphod@nie.ac.in/ hndivakar@nie.ac.in

Faculty

Dr. H N Divakar
Professor
hndivakar@nie.ac.in

- Thin Film Coating,
- Lean Manufacturing System,
- CAD/CAM/CIM
# List of Research Supervisors (2023-24)

## Dr. Prakash K R
Professor & Head  
Department of Mechanical Engineering  
The National Institute of Engineering  
Mysuru  
Contact: 8105473206  
Email: hodmech@nie.ac.in  
Research Area: Automation & control, Material coating, sensor materials, Robotics & IoT.

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Research Areas</th>
</tr>
</thead>
</table>
| **Dr. Suresha B**  
Professor  
sureshab@nie.ac.in |  
- Materials Science  
- Polymer Composite Materials  
- Tribology in Polymer Composites  
- Light Weight Polymer Composites  
- Natural fiber Composites  
- Fracture and Fracture Toughness of Composites  
- Nanocomposites |

| **Dr. Aravindrao M Yadwad**  
Professor  
amyadwad@nie.ac.in |  
- Composite Materials  
- Energy Engineering  
- Production Engineering  
- Management |
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

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

Dr. Aravind S L  
Assistant Professor  
aravindsl@nie.ac.in

- Automotive safety
- Automobile airbags
- Gas generants

Dr. Sachin B  
Assistant Professor  
sachinrao@nie.ac.in

- Slide Burnishing
- Sustainable Manufacturing
- Cryogenics
- Laser Dressing
- Surface Integrity
- Sustainable Product Design
# List of Research Supervisors (2023-24)

**Dr. Pradeepa H**  
Associate Professor & Head of The Department  
Department of Electrical and Electronics Engineering  
The National Institute of Engineering  
Mysuru  
Contact: +91 0821-4004973  
Email: eehod@nie.ac.in

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Research Areas</th>
</tr>
</thead>
</table>
| **Dr. Pradeepa H**  
Associate Professor  
pradeep3080@nie.ac.in |  
- Microgrids  
- Power System Stability  
- Smart Grids |

| **Dr. R Chidanandappa**  
Associate Professor  
chidananda@nie.ac.in |  
- Power Electronics Applications in Power Systems  
- Battery Management System |
Dr. Archana N V
Professor
archananv@nie.ac.in
- Control Systems
- Power Electronics
- Power Systems

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

Dr. Rohit K Mathew
Assistant Professor
rohitkmathew@nie.ac.in

- Renewable Energy
- Power System Restoration
- Power System Protection
- Power Grid Resilience
- Smart Grids
<table>
<thead>
<tr>
<th>Department of Electronics and Communication Engineering</th>
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<tr>
<td>List of Research Supervisors (2023-24)</td>
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<table>
<thead>
<tr>
<th>Dr. ROHINI NAGAPADMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
</tr>
<tr>
<td>· <a href="mailto:rohini_nagapadma@nie.ac.in">rohini_nagapadma@nie.ac.in</a></td>
</tr>
<tr>
<td>Area of Specialization:</td>
</tr>
<tr>
<td>· Signal Processing,</td>
</tr>
<tr>
<td>· Embedded Systems.</td>
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<table>
<thead>
<tr>
<th>Dr. NARASIMHA KAULGUD</th>
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<tbody>
<tr>
<td>Professor</td>
</tr>
<tr>
<td>· <a href="mailto:narasimha.kaulgud@nie.ac.in">narasimha.kaulgud@nie.ac.in</a></td>
</tr>
<tr>
<td>Area of Specialization:</td>
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<tr>
<td>· Signal Processing,</td>
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<td>· Multicore,</td>
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<td>· Quantum Computing.</td>
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<tr>
<th>Dr. S PARAMESHWARA</th>
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<tbody>
<tr>
<td>Associate Professor and Head, Department of ECE</td>
</tr>
<tr>
<td>· <a href="mailto:param2004@nie.ac.in">param2004@nie.ac.in</a></td>
</tr>
<tr>
<td>· <a href="mailto:echod@nie.ac.in">echod@nie.ac.in</a></td>
</tr>
<tr>
<td>Area of Specialization:</td>
</tr>
<tr>
<td>· Nano Technology,</td>
</tr>
<tr>
<td>· VLSI and Embedded Systems,</td>
</tr>
<tr>
<td>· IoT and Sensors.</td>
</tr>
<tr>
<td>Dr. C ANJANAPPA</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td><strong>Associate Professor</strong></td>
</tr>
<tr>
<td>- <a href="mailto:anjanappa_ecnie@nie.ac.in">anjanappa_ecnie@nie.ac.in</a></td>
</tr>
<tr>
<td><strong>Area of Specialization:</strong></td>
</tr>
<tr>
<td>- VLSI technology,</td>
</tr>
<tr>
<td>- Signal Processing,</td>
</tr>
<tr>
<td>- Medical Imaging,</td>
</tr>
<tr>
<td>- IoT and Embedded Systems.</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Dr. RAJALEKSHMI KISHORE
Associate Professor
- 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. SALILA HEGDE
Associate Professor
- salilahegde@nie.ac.in
Area of Specialization:
- VLSI and Embedded Systems,
- Signal Processing,
- Medical Imaging.

Dr. NAGARAJU C
Assistant Professor
- nagaraj@nie.ac.in
Area of Specialization:
- Signal Processing,
- Medical Imaging,
- VLSI and Communication Systems.
- IoT and Embedded Systems
<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Email</th>
<th>Area of Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. VIJAY B T</td>
<td>Assistant Professor</td>
<td><a href="mailto:vijaybt@nie.ac.in">vijaybt@nie.ac.in</a></td>
<td>Wireless Networks, Wireless Communication, QoS for Wireless Networks, Digital Communication</td>
</tr>
<tr>
<td>Dr. REMYA JAYACHANDRAN</td>
<td>Assistant Professor</td>
<td><a href="mailto:remyajayachandran@nie.ac.in">remyajayachandran@nie.ac.in</a></td>
<td>Analog Circuit Design, VLSI Design, In Memory Computing</td>
</tr>
<tr>
<td>Dr. RAGHU J</td>
<td>Assistant Professor</td>
<td><a href="mailto:raghuj@nie.ac.in">raghuj@nie.ac.in</a></td>
<td>Target Tracking, Radar Signal Processing, Signal Processing and Communication</td>
</tr>
</tbody>
</table>
Dr. MANJULA A V
Associate Professor

- manjula@nieit.ac.in

Area of Specialization:

- Communication Systems
- wireless communications
- Signal Processing
- Power Electronics
- Control Systems