



# VIDYUT

BIANNUAL NEWSLETTER FOR  
DEPARTMENT OF ELECTRICAL ENGINEERING



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# VIDYUT

**Biannual Newsletter of Department of Electrical Engineering Loknete  
Gopinathji Munde Institute of Engineering Education & Research**

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From HOD Desk  
Vision, Mission & PEOs

VISION , MISSION

PEO

"Never give  
up on  
something you  
believe in."

### From HOD Desk

Dear Friends,

It's immense pleasure to present this biannual newsletter "Vidyut". Electrical Engineering department is the dynamic and vibrant department with the blend of young and experienced Faculty. Department is actively involved in academic as well as research work in current areas of Electrical Engineering and multi-disciplinary streams. The department has well-equipped labs with the state of the art software, hardware, and machinery. In addition to academics, the department is actively involved in industry consultancy, energy audits, funded projects, and research initiatives. Our commitment to excellence and innovation drives our mission to nurture skilled engineers who can thrive in a global environment.



Dr. Y.S. Pawar

### Vision, Mission & PEOs

#### Vision

To become a front-runner in bringing out globally competent electrical engineers, innovators, researchers and entrepreneurs, thereby contribute value to the knowledge-based economy and society.

#### Mission

- To provide quality education and excellent Environment for both faculties and students.
- To learn and practice latest technology in Electrical engineering platforms prevalent in industries.
- To inculcate moral and ethical values among the faculties and students.

### Programme Educational Objectives(PEOs)

- PEO1-** To prepare students to succeed in employment, profession in Electrical Engineering discipline in particular and allied engineering in general.
- PEO2-** To prepare students with engineering breadth to innovate, create, design and analyzed novel systems and to contribute in providing solutions to real life problems.
- PEO3-** To provide students with academic environment to use commercial software's for design, simulation and analysis of electrical systems.
- PEO4-** To inculcate in students professional and ethical attitude.





## Department of Electrical Engineering

### BRIEF ABOUT DEPARTMENT:

The department is dedicated to producing competent electrical engineers who contribute to industry and society. We offer a comprehensive curriculum that blends theoretical knowledge with practical skills, preparing our students to excel in various domains such as power systems, renewable energy, electronics, and automation. Our department prides itself on its state-of-the-art laboratories, experienced faculty, and commitment to research and innovation. We actively collaborate with industries and research organizations to ensure our students gain real-world exposure and stay updated with the latest technological advancements.

At the core of our mission is a commitment to sustainability, ethics, and societal impact. From organizing community outreach programs to advancing green energy solutions, the Electrical Engineering Department of LoGMIEER is dedicated to creating a brighter and more sustainable future. Join us in our journey to empower the next generation of electrical engineers and make a difference in the world!

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"Be  
positive,  
patient  
and  
persistent."

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One of the strengths of the Department is paper publication in reputed journals, international & national Conferences by faculty and students. The main features are MOU's with different industries, Industry-Institute interaction for training as well as placement activities, GATE coaching & Guest Lectures. The scope of employment is in various organizations like the TATA Power, GSW, Bharat Forge Ltd., Siemens and Syntel, TCS, Cognizant, KPIT, Capgemini, Wipro, HCL technology, SLK software, torrent power, and Government and semi-government organizations like DRDO, ISRO, PGCL, Railway, Mahadiscom, Mahatransco, and Mahagenco Pvt. Ltd.



# ACADEMIC PROJECTS

## Industry Internship Project (IIP)

**1**

### PROJECT NAMES-

- Object Name Detection
- Self Learning AI Chat Bot
- Pattern Analysis using Data Set
- Salary prediction using Machine Learning
- Matrimonial Web Application
- Face detection and recognition for employees

### FACULTY NAME -

**Dr. S.M.Akolkar**

**3**

### PROJECT NAMES -

- Audio processing from speech to text and text to speech
- Human Voice language Translator
- Audio Processing
- Text to Different Language audio converter
- Solar system Output Power Predictor
- OCR/any text speech
- Cardiovascular Disease Prediction.

### FACULTY NAME -

**Prof. Y.S.Pawar**

**2**

### PROJECT NAMES -

- Identify overload condition in MCB
- Capturing face using detection and Face Dataset Creation
- Object Detection using artificial intelligence and machine learning
- Training module for face detection and recognition
- Audio processing from speech to text and text to speech

### FACULTY NAME -

**Prof.K.V.Naphade**

**4**

### PROJECT NAMES -

- Design & Manufacturing of MCC, PDB. Using switch gear protection f protecting and controlling of AIR jet loom Electrical supply installation and electrification for new manufacturing industry

### FACULTY NAME -

**Prof.S.S.Deshmukh**

**5**

### PROJECT NAMES -

- Monitoring impact of variation in crushing on daily power generation for Warna Sugar Factor
- Design and Development of Portable Air Cooler
- Study of electrical load distribution of various departments in projal Industries Shirala
- Feasibility analysis of roof top solar system for Projal Industries Shirala

### FACULTY NAME -

**Prof.V.Y.Patil**





# STUDENT ARTICLE

## Engineering students, their lifestyle

**RITESH DESHMUKH**  
**FINAL YEAR, B.E. EE**

Engineering students, their lifestyle "Engineering" is a demanding field that requires constant study and problem-solving. Engineers apply science and math to create efficient solutions. Engineering students often face heavy workloads, little sleep, and limited social lives. To succeed as engineers, they should adopt an engineer's lifestyle. Key aspects of this lifestyle include:

**Assignments:** Engineering students face numerous assignments, even if they seem insignificant.

**Problem- solving:** Engineering challenges sharpen problem- solving skills, benefiting both their studies and life.

**College Canteen:** The college canteen is a popular place for relaxation and socializing, even if the menu isn't great.

**Attendance:** Students may skip classes due to boring lectures, but it's not advisable.

**Fests and Events:** College fests and events offer a break from regular studies and a chance to showcase creativity.

**Last- Minute Study:** Engineering students often procrastinate but should consider daily study for better results.

These routines define the life of an engineering student, with both positive and negative aspects. Overall, the four years of engineering education are memorable and full of experiences."

Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away







# STUDENT ARTICLE

## Scope for Electrical Engineers in INDIA

DARSHAN JEJURKAR  
FINAL YEAR, B.EEE

Electrical engineering offers promising career opportunities in India due to the increasing demand for electrical systems and innovations across various industries. As the country continues to invest in infrastructure development, renewable energy, and technology advancements, electrical engineers are in high demand. They play a crucial role in designing and maintaining electrical systems for power generation, distribution, and electronic devices.

Electrical engineering graduates can explore career paths in diverse sectors such as power generation and distribution, telecommunications, automation, and electronics. They can work in both the public and private sectors, taking on roles in electrical design, project management, research and development, and consultancy. Additionally, with the growing emphasis on renewable energy sources like solar and wind, electrical engineers specializing in sustainable technologies can find numerous opportunities in the green energy sector.

In recent years, the government's "Make in India" initiative and the push for a digital economy have further expanded the scope for electrical engineers. They are essential in developing smart grids, electric vehicles, and automation solutions, making electrical engineering a dynamic and promising field for those looking to build a successful career in India.

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When you  
want to Know  
how things  
really work,  
study them  
when they're  
coming apart

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William Gibson







Value added program for TE Electrical students at “**AMT Skill Enhancement Institute, Nasik**” on Automation and Relay testing during 20<sup>th</sup> Dec 2025 to 28<sup>th</sup> Dec 2025



Industrial Visit to “**HVDC Terminal Station, MSETCL Padghe**” on 11<sup>th</sup> Feb 2025 where students gained valuable insights into the operation and significance of HVDC Tech.



Industrial Visit to “**Ultra High Voltage research center for Switchgear Technologies, Nasik**” on 14<sup>th</sup> Feb 2025.



Visit to “**AICTE IDEA Lab & Innovation Centre**” for SE Electrical students on 18<sup>th</sup> Feb 2025



Industrial Visit to “**Koyna engineer's pvt ltd, Nasik**” Manufacturer of 11 /22/33 kv outdoor type resin cast dry type transformer on 21<sup>st</sup> Feb 2025.



Industrial Visit to “**132 KV takali O&M Division substation, Nasik**” for second year electrical students on 21<sup>st</sup> Feb 2025, provided students with a practical knowledge of power distribution systems and switchgears.





“**Alumni Meet**” held on 23<sup>rd</sup> Jan 2025, brought together graduates and current students for a day of networking, knowledge sharing, and career discussions.



“**Fire and Safety Workshop for Electrical Engineering students**” was held on 24<sup>th</sup> Feb 2025, focusing on electrical hazards, fire prevention, and emergency response techniques.



Industrial Visit to “**Ultra High Voltage research center for Switchgear Technologies, Nasik**” on 14<sup>th</sup> Feb 2025.



“**The Electra Circuitry Competition**”, held on March 1, 2025 under LoGMIEER TECHFEST 2K25, brought together talented electrical engineering students who showcased their expertise in designing complex circuits and developing innovative solutions in automation and energy efficiency, setting new standards in the field.



“**The Project Competition**”, held under LoGMIEER TECHFEST 2K25 on 1<sup>st</sup> March 2025, showcased impressive advancements in electrical engineering, with participants presenting cutting-edge solutions in renewable energy, smart grids, and automation



“**The Project-Based Learning Competition**”, held under LoGMIEER TECHFEST 2K25 on 1<sup>st</sup> March 2025 for students to demonstrate their practical skills in electrical engineering by developing creative and impactful projects focused on sustainable energy, circuit design, and smart technology solutions

# EESA

Electrical Engineering Students association (EESA)

The Electrical Engineering Students' Association (EESA) represents students within the Electrical Engineering department. EESA is an initiative by the students, for the students.

## **Goal:**

The main purpose of the EESA is to provide a variety of educational experiences that will encourage organization members to broaden their knowledge and increase their enthusiasm for their chosen occupational areas (i.e. occupational-related field trips, seminars, etc.).

## **Objectives:**

- To provide opportunities for social interaction among organization members.
- To conduct various events like seminars, industrial visits, guest lectures, soft-skills development programs, fresher's party etc. and also technical and nontechnical events for assisting students
- To increase knowledge and skills in planning, delegating, decision making
- To develop a more positive and realistic attitude toward themselves, their peers and their colleagues.





# EDITORIAL BOARD



Dr.Y.S.Pawar  
Head Of Department



Prof.S.N.Patil  
Editor in Chief

This newsletter has covered all the events from July 2024 to Dec 2024 which were organized in and by Electrical Engineering Department.

We are here going to invite suggestions for improvement, if any, with warm regards.

## *Student Editorial TEAM*



DARSHAN PRASAD JEJURKAR  
BE ELECTRICAL



DNYANESH KAILAS BONDE  
TE ELECTRICAL