



**SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING
SHEGAON - 444203 (M.S., INDIA)**

DEPARTMENT OF ELECTRICAL ENGINEERING

Institution of Engineers (India)

Department of Electrical Engineering Students' Chapter

Newsletter

2024-25 Spring Semester (Volume: 10; Issue: 2)



VISION OF DEPARTMENT

**To impart high quality education and excel research in
Electrical Engineering to serve the global society**

MISSION OF DEPARTMENT

- 1. To develop excellent learning center through continuous interaction with Industries, R&D centers and Academia.**
- 2. To promote excellence in teaching and research.**
- 3. To produce competent, entrepreneurial and committed Electrical Engineers with high human values for professional career and higher studies.**

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates, within five years after graduation, should demonstrate

- 1. PEO 1: Expertise and use it for problem solving in analysis & design of electrical system.**
- 2. PEO 2: Commitment in the engineering profession or other professional careers with high human values.**
- 3. PEO 3: Lifelong learning and adapting to a constantly changing field through graduate work, professional experience and self-study.**
- 4. PEO 4: Leadership and initiative to ethically advance professional and organizational goals and facilitate the achievements of others.**
- 5. PEO 5: Teamwork to commitment for working with others of diverse cultural and interdisciplinary backgrounds.**

FACULTY ACHIEVEMENTS

- ✚ Dr. S. R. Paraskar and Dr. S. S. Jadhao published a patent entitled - A Fault Diagnosis system for Electric Vehicle Motors.**
- ✚ Dr. S. S. Jadhao published a patent entitled - AI-Based Device for Advanced Threat Protection and Cyber Security Monitoring.**

FACULTY PUBLICATIONS

- ✚ Dr. S. R. Paraskar published a technical book entitled “Control Strategies for Cuk Converters in DC – DC Drive Applications” in Vinsa Publications.
- ✚ Dr. S. R. Paraskar, Mr. G. N. Bonde published a technical paper entitled “Comparative Study on Detection and Classification of Transmission Line Faults using Soft Computing Technique” in International Journal of Innovative Research in Science Engineering and Technology (IJIRSET).
- ✚ Mr. U. A. Jawadkar published a technical paper entitled “Identification of Lightning and Non, Lightning Fault of Transmission Line” in International Research Journal of Modernization in Engineering Technology and Science.
- ✚ Dr. A. U. Jawadekar, Mr. M. R. Chavan published a book chapter entitled “Application of the Novel Wavelet ANN Method for Segregating Bearing Faults in Three-Phase Induction Motor” in Current Approaches in Engineering Research and Technology.
- ✚ Dr. A. U. Jawadekar published a technical paper entitled “Energy Management Strategies for Hybrid Electric Vehicle” in International Conference on research & Innovative perspective in Engineering (ICRIPE 2025).
- ✚ Dr. A. U. Jawadekar, Mr. R. K. Mankar published a technical paper entitled “Efficient Fault Localization in Smart Grid Distribution Systems Using Smart Discrete Fourier Transform and DG Sources” in International Journal of Novel Research and Development (IJNRD).
- ✚ Dr. S. S. Jadhao, Dr. R. S. Kankale, Mr. P. R. Bharambe, Mr. G. N. Bonde published a technical book entitled “AI and Machine Learning in Electrical Systems” in Vinsa Publications.
- ✚ Mr. G. N. Bonde, Dr. S. R. Paraskar, Dr. S. S. Jadhao, Dr. R. S. Kankale, Mr. V. S. Karale published a technical paper entitled “Robust Classification of Voltage Sag Causes via Hilbert Transform and Soft Computing” in the Indian Journal of Technical Education.
- ✚ Mr. G. N. Bonde, Dr. S. R. Paraskar, Dr. S. S. Jadhao, Dr. R. S. Kankale, Mr. V. S. Karale published a technical paper entitled “Integrating Hilbert Transform and KNN for Accurate Voltage Sag Cause Identification” in the Indian Journal of Technical Education.
- ✚ Mr. G. N. Bonde, Dr. S. R. Paraskar, Dr. S. S. Jadhao, Dr. R. S. Kankale, Mr. V. S. Karale published a technical paper entitled “Underlying Cause Based Voltage Sag Generation using MATLAB Simulink and Tailor-Made Experimental Setup” in Journal of Emerging Trends in Electrical Engineering.
- ✚ Mr. P. R. Dhabe, Dr. S. R. Paraskar, Dr. S. S. Jadhao published a technical paper entitled “An Improved Algorithm for SoC Estimation Using a Hybrid Coulomb Counting and Voltage-Based Method” in 3rd International Conference on Innovations in Clean Energy Technologies (ICET 2025).

INDUSTRY LIAISONING: MOUs

- ✚ The Department of Electrical Engineering, SSGMCE Shegaon signed a Memorandum of Understanding (MOU) with I Robots Innovative Solutions, Pune on 5th April 2025.

STUDENT PUBLICATIONS

- + Aditi Barde, Ankita Bharambe, Sampada Palaskar, Aseer Ahmed, Ashish Gosavi, Nirmal Shinde published a technical paper “Smart Helmet for Visually Impaired People using Arduino” in International Journal of Scientific Research in Engineering and Management (IJSREM).
- + Prerna Wankhade, Samiksha Damdar, Abhishek Banait, Om Adhau, Prasad Agrawal, Shankar Bondre published a technical paper “Development of a Prototype for Smart Parking System” in SSGM Journal of Science and Engineering.
- + Pooja Ingle, Pornima Lohakare, Roshani Dhole, Shreya Farkunde, Shruti Palhade, Vaishnavi Pesode published a technical paper “Design and Fabrication of Solar Powered Smart Air Cooler” in SSGM Journal of Science and Engineering.
- + Akshay Dawange, Aniket Shingote, Anuj Nikam, Ashish Kasdekar, Prathamesh Wankhade, Pratik Wagh published a technical paper “Design of Wireless Charger for Electric Vehicles Using MATLAB Simulink” in International Journal of Research Publication and Reviews.
- + Shruti Bawane, Prajwal Khokle, Rushikesh Dhandar, Siddhant Deshmukh, Tejas Khelkar, Saiyyad Riaz Saiyyad Aziz published a technical paper “Identification of Lightning and Non, Lightning Fault of Transmission Line” in International Research Journal of Modernization in Engineering Technology and Science.
- + Anuksha Pande, Aysha Jadhav, Jayashri Shetye, Kanchan Koyakade, Mrunal Onkar, Shital Takalkar published a technical paper “Desalination of Water by Using Solar Energy” in International Journal of Research Publication and Reviews.
- + Pratiksha Ingle, Smita Watpal, Arpit Giratkar, Jayesh Giri, Shubham Bhal, Vaishnavi Thakre published a technical paper “The Future of Agriculture: Innovations in Agricultural Technology” in International Research Journal of Modernization in Engineering Technology and Science.
- + Gauri Raut, Rohini Deshmukh, Prajwal Chilcholkar, Pranav Patki, Abhay Nikhate published a technical paper “Transmission line fault analysis by using discrete wavelet transform and ANN”, International Journal of Research Publication and Reviews.
- + Amruta Patil, Vaishnavi Chanekar, Rishikesh Kuyate, Shridutt Deshmukh, Uday Lande, Toni Vihirkar published a technical paper “Design of Bi-directional Buck Boost Converter” in International Journal of Scientific Research in Engineering and Management (IJSREM).
- + Pranali Asolkar, Revati Lulekar, Sakshi Ghodke, Darshan Lajurkar, Manthan Kathane, Dhruv Nishan published a technical paper " Automatic Power Factor Correction with All Power Measurements Over Lora Wireless Communication " in International Journal of Scientific Research in Engineering and Management (IJSREM).
- + Chirag Tiwari, Om Nemade, Rishikesh Mishra, Sadanand Bhonge, Sanket Fokmare, Shivraj Patil, Pawan Nemane published a technical paper " IoT Based Smart Saline Monitoring System " in International Research Journal of Modernization in Engineering Technology and Science.
- + Khushi Ingle, Nandini Ranit, Sejal Jadhav, Balaji Limbalkar, Charul Palkar, Rohan Pawar, Prasad Wadodkar published a technical paper “Smart Solar Monitoring Using IoT and Wireless Data Transmission” in International Journal of Scientific Research in Engineering and Management (IJSREM).
- + Ankit Wagh, Parth Shahagadkar, Swapnil Sanap published a technical paper “Indoor Navigation System for Visually Impaired” in International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering.

SEMINARS / WORKSHOPS / TECHNICAL EVENTS



A seminar on "Job Opportunities in Banking Sectors" organized by IEI- Electrical Department Students' Chapter for B.E. Third and Final Year Electrical Engg students, delivered by Mr. Siddheshwar Konghe (Director, SAARTHI Education, Chh. Sambhajinagar) on 10th January 2025.



A seminar on "Medium-Voltage Switchgear Testing" organized by IEI- Electrical Department Students' Chapter for B.E. Final Year Electrical Engg students, delivered by Mr. Harshal Shegokar (GET, ABB Pvt. Ltd., Nashik) on 13th January 2025.



A seminar on "Opportunities in Core Electrical Industry" organized by IEI- Electrical Department Students' Chapter for B.E. Third Year Electrical Engg students, delivered by Miss. Pallavi Karale (GET, ABB Pvt. Ltd., Nashik) on 15th January 2025.



A Two-Day Workshop "ROBOZON" organized by IEI- Electrical Department Students' Chapter for Engineering students from various branches, conducted by student coordinators of IEI- Electrical Department Students' Chapter on 1st – 2nd March 2025.



A One-Week Hands-on Training Program on "Renewable Energy Ventures : Training for Aspiring Entrepreneurs" organized by IEI- Electrical Department Students' Chapter for B.E. Third Year Electrical Engg students, conducted by Dr. Ajaykumar Damral (Faculty, SSGMCE Shegaon) during 6th – 11th January 2025.



A One-Day Workshop on "Challenges and Innovations in EHV Substations" organized by IEI- Electrical Department Students' Chapter for B.E. Third Year Electrical Engg students, conducted by Mr. Chandrakant Thakkar (Additional Executive Engineer, MSETCL, Akola) on 24th March 2025.



A Guest Lecture on "Opportunities for Electrical Engineers Abroad" organized by IEI- Electrical Department Students' Chapter for B.E. Third Year Electrical Engg students, delivered by Mr. Nayan Tale (Electrical Engineer, Merchant Navy, New York) on 5th March 2025.



An Event "IPL Auction" organized by IEI- Electrical Department Students' Chapter for Engineering students from various branches, conducted by student coordinators of IEI- Electrical Department Students' Chapter on 8th March 2025.

STUDENT ACHIEVEMENTS



Mr. Kunal Pisudde, Mr. Manthan Kolte and Mr. Pranav Harne, from Third Year Electrical Engineering, bagged the First Position including a certificate and Cash Prize of Rs. 51,000 in National Level Project Competition SPARK- 2025 conducted on 16th April 2025 at MKD Institute of Technology, Nandurbar.



Mr. Dipak Ingale and Mr. Soham Ambekar, from Third and Second Year Electrical Engineering respectively, bagged the First Position including a certificate cash prize of Rs 10,000 at the National level Event 'Tech Tantra' organized by V.B. Kolte COE, Malkapur.



Mr. Manthan Kolte, from Third Year Electrical Engineering, bagged the First Position including a Certificate and Cash Prize of Rs. 5,000 in National Level Drone Racing Competition - AEROQUEST at Government College of Engineering, Jalgaon



Mr. Pranav Harne, Mr. Rushikesh Payghan and Mr. Nivrutti Raut, from Third and Second Year Electrical Engineering, bagged the Second Prize including a Certificate and Cash Prize of Rs. 11,000 in National Level Project Expo-2k25 at MIT ADT University Pune



Mr. Kunal M Pisudde, Mr. Manthan Kolte, Mr. Atharv Ingle and Mr. Pranav Harne from Third Year Electrical Engineering, bagged the First Position including a Certificate and Cash Prize of Rs. 10,000 in the National Level Drone Racing Competition – DRONATHON at Government College of Engineering, Jalgaon



Mr. Rushikesh Payghan, from Third Year Electrical Engineering, bagged the First Position including a Certificate and a Medal in National Level Project Competition AROVISTA- 2025 at Tulsiramji Gaikwad Patil College of Engineering, Nagpur.

STUDENT PLACEMENTS

Sr. No.	Name of the Company	No. of students placed	Name of the students placed	Package Offered in Lacks P.A.
1.	ABB Limited, Nashik	03	1) Om Adhau 2) Prerna Wankhade 3) Uday Lande	8.50
2.	KI-Tech Pvt. Ltd., Hyderabad	02	1) Om Nemade 2) Prajwal Khokle	6.20
3.	Ather Energy, Bangalore	03	1) Gauri Raut 2) Kanchan Koyakade 3) Vaishnavi Thakare	4.00
4.	Infosol Energy, Chh.Sambhajinagar	05	1) Aysha Jadhav 2) Chirag Tiwari 3) Manthan Kathane 4) Pratik Wagh 5) Rishikesh Wagh	3.00
5.	Faurecia India Pvt. Ltd., Pune	01	1) Aseer Ahmed	3.00
6.	QH TALBROS Pvt.Ltd., Satara	08	1) Anuj Nikam 2) Jayesh Giri 3) Kanchan Koyakade 4) Prajwal Khokle 5) Shridutt Deshmukh 6) Shubham Bhal 7) Siddhant Deshmukh 8) Swapnil Sanap	2.16

STUDENT INTERNSHIPS/TRAININGS

- ✚ Gaurav Bendarkar, Ms. Prerna Wankhade, Ms. Pooja Ingle and Ms. Anuksha Pande, students of Third and Final Year Electrical Engineering, completed One Month Internship “Loose Part Monitoring System” at Bhabha Atomic Research Center during 17th July to 22nd August 2024.
- ✚ Abhishek Manmode and Abhay Hatekar, students of Third Year Electrical Engineering, completed Twenty Five Days Internship “Transformer Assembling and Repair” at Shivaji electrical & Engg. Works, MIDC Khamgaon during 12th December 2024 to 5th January 2025.
- ✚ Ms. Apeksha Sarode and Ms. Sakshi Palaskar from Third Year Electrical Engineering successfully completed One Month Internship “Electrical Maintenance” at Hindustan Unilever Limited, MIDC, Khamgaon during 10th June to 9th July 2025.

Date of Publication: 2nd July 2025

Publisher:

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SSGMCE, Shegaon

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Chief Editors: Prof. P. R. Bharambe, Prof. P. R. Dhabe
Editors : Mr. Sarthak Paraskar, Ms. Sharvari Deshmukh
Mr. Abhishek Manmode, Mr. Dipak Ingle