



Hope Foundations'

FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

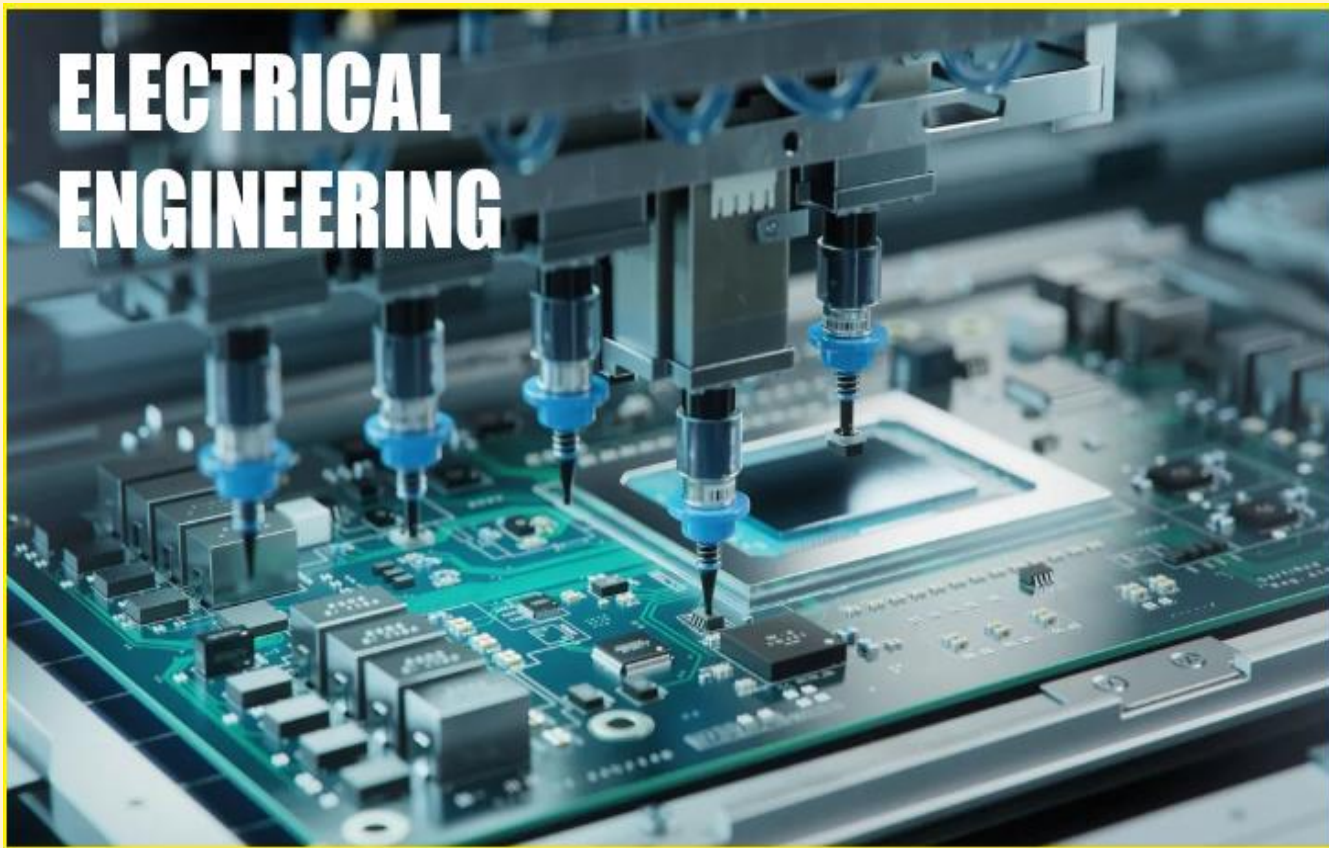
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ELECTRAZINE

E – Newsletter of

Electrical Engineering Department

Volume 10, Issue 1 (1st July, 2024 to 31st Dec. 2024)



Publishers

Department of Electrical Engineering

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Dr. Jayant J. Mane

Editorial Board

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List of Faculty/Staff Members in Department

Faculty Members

Dr. Jayant J. Mane (HOD, Electrical)	Prof. Rupesh B. Ingale (Assistant Professor)
Dr. Sandeep D. Chawda (Associate Professor)	Prof. Priya A. Potdar (Assistant Professor)
Prof. Milind N. Tagare (Associate Professor)	Dr. Aswantkumar Sharma (Assistant Professor)
Prof. Suhas H. Mhabadi (Assistant Professor)	Prof. Nikhil N. Kasar (Assistant Professor)
Prof. Nitin V. Kelkar (Assistant Professor)	Prof. D. Rajeshkumar Reddy (Asst. Professor)
Prof. Mangesh S. Modak (Assistant Professor)	Prof. Sudip G. Halder (Asst. Professor)
Prof. Sudhir S. Wamane (Assistant Professor)	

Staff Member

Mr. Swapnil P. Mohite (Lab-Assistant)
Mr. Parshuram B. More (Lab-Assistant)

Department Vision

The department shall become foremost seat by imparting advanced and progressive education in electrical engineering along with excellent professional skills and character to meet industrial and social challenges.

Department Mission

M1: To ascertain qualitative teaching learning process through art of teaching pedagogy and meticulous continual assessment.

M2: To provide a supportive environment that facilitates industrial exposure to produce quality engineers who will excel globally.

M3: To promote the versatile development of students through training of soft skills.

M4: To imbibe moral, ethical and social values among students.

Program Specific Outcomes (PSOs)

PSO1: Students will be able to design, simulate and analyze electrical systems using software tools.

PSO2: Students will be able to understand, implement concepts of electrical systems through experiments and apply it to solve industry specific problems.

Program Educational Objectives (PEOs)

PEO1: Students should be able to have a successful career or pursue higher studies to meet future challenges of technological development.

PEO2: Students should be able to pursue analytical and logical skills that will enable them to analyze and design Electrical Systems and its Controls.

PEO3: Students should be able to undertake research and development activities in emerging multidisciplinary fields.

PEO4: Students should be able to achieve professional and interpersonal skills by giving an opportunity as an individual as well as a team.

Highlights of the Department

- The department has 13 faculty members and 02 Lab assistants.
- All faculty members have completed Post Graduation (ME or M. Tech), 03 faculty are having Doctoral Research Degree (Ph.D.), and 03 faculty members are pursuing Ph.D.
- Faculty members have completed their Post Graduations from renowned Engineering institutes like VNIT Nagpur, VJTI Mumbai, COEP Pune, COE Walchand Sangali, PVG COET Pune etc.
- Faculty Average Teaching Experience is 15 years.
- Published almost 100+ papers at National and International level.
- State of Art and well equipped 08 Laboratories including Computer Lab - A and B consists of 40 computers (Acer, Intel i5) with MATLAB, Sci-Lab, MP-Lab, Eagle software and LCD projector installed.
- Separate 17 computers are distributed in faculty members, classrooms, Department office, Project Lab and PLC Lab.
- 1 ICT classroom with Digital board, audio-visual and internet facilities, 2 classrooms with LCD projector and internet facilities are available.
- Programmable Logic Controller Lab with 3 Micro-Logix 1400Series-B
- LAN Facility is available in Computer Labs. Free Wi-Fi facility is available.
- Department Library with 531books
- Plagiarism Checker x2019 Business available in project lab.
- Video lectures of NPTEL courses conducted by all IITs (funded by MHRD, Govt. of India).

List of Laboratories:

Basic Electrical Engg. Lab	Computer Lab - A
Switchgear and Protection Lab	Computer Lab - B
Electrical Measurement Lab	Control System Lab
Electrical Machines and Drives Lab	Power Electronics and Automation Lab/ PLC Lab

Programs Organized by the Department

1. A Course Enrichment on Fundamental of Electrical Design

‘A Course Enrichment on Fundamental of Electrical Design’ was organized by the Department of Electrical Engineering on Thursday, 22nd August 2024. A total of 35 students and 1 faculty member attended the Program.

Shri. Ranjan Kadulkar, a BE Electrical graduate from VJTI with over 30 years of experience in electrical design and maintenance, was the speaker. He served as a Design Engineer at Petrofac for 13 years and has worked on several international projects in countries like Russia, Kuwait, and Italy.

The session began with Prof. M. N. Tagare highlighting the importance of fundamental knowledge in Electrical Engineering. Dr. Jayant Mane, Head of the Electrical Engineering Department, welcomed the speaker, Shri Ranjan Kadulkar, with a floral gesture. Shri Kadulkar explained project execution in the industry and conducted sessions on LV switchgear and motors. Students learned about the working, specifications, and selection of MCB, RCCB, MCCB, and ACB, along with standards like IEC, IS, and IP. Concepts like let-through energy and breaker/cable selection were also discussed. Prof. Tagare coordinated the event, and Shri Swapnil Mohite managed the AV setup. The program concluded with a vote of thanks, and students expressed their satisfaction with the session.



Dr. J. J. Mane (HoD, Electrical) felicitating Shri Ranjan Kadulkar

2. **First Prize in Chanakya Mandal's State Level Essay Writing Competition**

Avanee Mayuresh Athavale, an Electrical Engineering student from Finolex Academy of Management and Technology (FAMT), secured first rank in the State Level Essay Writing Competition conducted by Chanakya Mandal Pariwar, earning a 100% scholarship worth Rs 60,000 for their Foundation course.

The competition was designed to increase participants' knowledge and make them ponder over themselves as the topic of the essay writing was 'How I Want to Develop Myself?'. The students were expected to give their perspectives and express their opinions on this subject. The prize for this competition was the scholarships for the Foundation Course awarded to students who secured the first three ranks. It provided an invaluable learning opportunity for students to showcase their talents through their Essay writing competition.

Chanakya Mandal Pariwar, founded on August 10, 1996, by Avinash Dharmadhikari, is a renowned institution dedicated to nurturing future leaders and civil servants. Inspired by the wisdom of Acharya Chanakya, the organization has been instrumental in shaping young minds and preparing them for the challenges of public service. By offering comprehensive guidance and support, Chanakya Mandal Pariwar has become synonymous with excellence in competitive exam preparation. The Chanakya Mandal Foundation Course focuses on the following points:

- 1) General Studies: History, Geography, Polity, Economics, Science & Technology, Current Affairs.
- 2) Aptitude and Reasoning: Numerical ability, logical reasoning, data interpretation.
- 3) English Language: Grammar, vocabulary, comprehension.
- 4) Essay Writing: Structure, content, style.
- 5) Ethics and Integrity: Values, moral reasoning, case studies.
- 6) Current Affairs: National and international events, and issues.
- 7) Study Techniques and Time Management: Effective learning strategies, and exam preparation.
- 8) Personality Development: Communication skills, confidence building, interview

3. A two-day Workshop on Python, Data Science and Machine Learning Fundamentals for Electrical Engineers

The Electrical Engineering Department organized a 2-day workshop on “Python, Data Science, and Machine Learning Fundamentals for Electrical Engineers” on August 2nd and 3rd, 2024. A total 25 students from BE actively participated in the workshop. Each day included three in-depth sessions focusing on Python basics, data handling with Pandas, and machine learning. Day 1 covered Python and Pandas, while Day 2 focused on machine learning algorithms like regression and classification, with applications in predictive maintenance and fault detection. The workshop was guided by Prof. Rupesh B. Ingle, coordinated by Prof. Sudip Halder, and supported by Dr. Jayant J. Mane.

The workshop was a great success, with students gaining valuable knowledge and hands-on experience in Python, data science, and machine learning. Feedback from participants indicated that they gained a solid understanding of these subjects and how machine learning works in real-world applications. They also appreciated the practical hands-on sessions, which helped them learn how to apply these skills to electrical engineering case studies. The participants were highly engaged and demonstrated a keen interest in applying these skills to their field of study. The workshop successfully bridged the gap between theoretical knowledge and practical implementation, preparing students to use these techniques in electrical applications.



Resource person Prof. R. B. Ingle interacting with the students

4. A Guest Lecture on ‘How to Prepare for Technical Competitive Exams’

The Department of Electrical Engineering arranged a Guest lecture on ‘How to prepare for Technical Competitive Exams’ on Saturday 3rd August 2024 at 10.00 am in EN 0/05 for the students of third and final-year Electrical Engineering. A total of 69 students and 04 faculty members participated in this program.

Mr. Swanand Lohar, an alumnus of FAMT Electrical Engineering was the speaker. He passed out in 2018. Presently he is working as Asst. Engineer at MSETCL Oni Substation near Rajapur. He has stood 9th in all Maharashtra Merit for the recent Mahatransco Exam and stood at 25th position in all Maharashtra merit for the Mahagenco Exam. Mr. Swanand Lohar shared his career journey and emphasized the importance of GATE preparation for competitive exams and interviews. He discussed government sector opportunities for electrical engineers and their selection process. Key preparation tips included mastering basics, understanding paper patterns, consistent study, proper planning, daily scheduling, regular revision, problem-solving accuracy, and self-confidence. He also addressed common hurdles and recommended books, online resources, and test series for practice. The session was interactive and concluded with a Q&A.

Prof. M.N. Tagare introduced Mr. Lohar and explained the session’s objective. Dr. J.J. Mane felicitated the speaker and gave the concluding remarks. Prof. Tagare coordinated the event with support from Lab Assistant Shri Swapnil Mohite.



Dr. J. J. Mane (HoD, Electrical) felicitating Mr. Swanand Lohar

5. **‘KARGIL VIJAY DIWAS’ Event Organized by Electrical Engineering Department**

‘KARGIL VIJAY DIWAS’ Event Organized by Electrical Engineering Department
The Electrical Engineering Department successfully organized a commemorative event on ‘KARGIL VIJAY DIWAS’ on 1st August 2024.

The event was aimed at honoring the brave soldiers of India and celebrating the country’s victory in the Kargil War against Pakistan. The ceremony began with an introductory speech, highlighting the significance of Kargil Vijay Diwas and the historical events leading up to India’s victory.

Presence of Dignitaries

The event was graced by the presence of Dr. Kaushal Prasad, Principal of Finolex Academy of Management and Technology, along with Dr. Jayant Mane, Head of the Electrical Department, and Prof. Nikhil Kasar, EESA (Electrical Engineering Students Association) Coordinator. The faculty members and students were present.

Key Highlights of the Event

Introductory Speech: The event began with a narration of the Kargil War and the brave efforts of Indian soldiers, emphasizing the importance of this day.

Principal’s Address: Dr Kaushal Prasad, Principal of Finolex Academy, addressed the gathering, sharing his thoughts on the relevance of Kargil Vijay Diwas and the lessons students can learn from this historical event.

Message from the Head: Dr. Jayant Mane, Head of the Electrical Department, motivated the students by sharing his reflections on the bravery, patriotism, and sacrifice of the soldiers, urging students to apply such values in their academic and professional lives.

On the occasion of Kargil Vijay Divas, EESA organized an “Online Quiz based on Kargil War” at the institute. A total of 117 students participated in this quiz using Google Forms.

Winners of this quiz are as follows having the top score:

1. Nida Rafik Ramdul (IT)
2. Janhavi Laxman Palav (MECH)
3. Nidhi Vivek Shetye (CSE)
4. Shruti Santosh Shinde (CSE)
5. Samruddhi Shivaji Janwalker (IT)
6. Ahmed Mongale (MECH)
7. Sameed Sakharkar (MECH)

Department of Electrical Engineering, FAMT Ratnagiri

Participation and Winner Certificates were distributed to all respective students.

Students' Contributions:

Audio-Visual Presentation: A series of student presentations were showcased, including an audio-visual tribute to the Kargil heroes. Students expressed their admiration and respect for the soldiers who laid down their lives for the nation.

Student Speeches: A few students took to the stage to deliver speeches on the importance of Kargil Vijay Diwas and how it inspires the youth of India.

Documentary Screening: A documentary on the Kargil War was screened, giving the audience an in-depth look at the strategic and emotional aspects of the war, which left a lasting impact on everyone present.

EESA Committee Introduction: The EESA Committee, led by Shubham Kotawdekar and Rutuja Gunjal, introduced themselves and shared their plans for upcoming events and activities that align with the department's vision.

Vote of Thanks

The event concluded with a heartfelt vote of thanks delivered by Avanee Athavale, acknowledging the efforts of all who contributed to the event's success, including faculty members, students, and the organizing committee.



Photograph during 'KARGIL VIJAY DIWAS' celebration

6. Workshop on MATLAB Simulink & Hardware Interfacing with MATLAB

We are pleased to announce an exciting series of online and offline workshops on MATLAB Simulink, conducted by Mr. Ankit Kumar, an esteemed Application Engineer from MathWorks Design Tech System. These workshops are designed to provide comprehensive training and hands-on experience to students across the Electrical Engineering Department.

Objective: The primary objective of these workshops is to equip participants with the necessary skills and knowledge to leverage MATLAB Simulink for various applications specific to their fields. This initiative aims to bridge the gap between theoretical knowledge and practical implementation, fostering a deeper understanding of the tool's capabilities and its application in real-world scenarios. These workshops present a unique opportunity for students to enhance their technical skills, interact with industry experts, and gain hands-on experience with a powerful tool used extensively in academia and industry. Whether you are looking to improve your knowledge in hardware interfacing, this workshop series promises to deliver valuable insights and practical skills.

The MATLAB Simulink workshops conducted by Mr. Ankit Kumar have successfully concluded, leaving a lasting impact on the participants from SE, TE & BE Electrical. Over the course of these sessions, students were exposed to a wealth of knowledge and practical insights, tailored specifically to their fields of study.



Students' participation during MATLAB workshop

Faculty Achievements

Workshop/Add-on Courses/Guest Lecture/Invited Talks Conducted/Co-ordinated

1. Prof. Milind N. Tagare worked as a Co-Ordinator for a course enrichment on, “Fundamental of Electrical Design” held on 22nd August 2024 at Electrical Engineering Dept. of Finolex Academy of Management & Technology (FAMT), for the students of BE Electrical Engineering.
2. Prof. Rupesh B. Ingle worked as a Resource for two-day workshop on, “Python, Data Science, and Machine Learning Fundamentals for Electrical Engineers” held on 02nd and 03rd August 2024 at Electrical Engineering Dept. of Finolex Academy of Management & Technology (FAMT), for the students of BE Electrical Engineering.
3. Prof. Milind N. Tagare worked as a Co-Ordinator for a Guest Lecture on, “How to Prepare for Technical Competitive Exams” held on 3rd August 2024 at Electrical Engineering Dept. of Finolex Academy of Management & Technology, Ratnagiri.
4. Prof. D. Rajeshkumar worked as a Co-Ordinator for workshop on, “MATLAB Simulink & Hardware Interfacing with MATLAB” held on 18th July 2024 for SE, TE and BE students at Electrical Engineering Dept. of Finolex Academy of Management & Technology, Ratnagiri.

Faculty Development Programs (FDPs)/ Short Term Training Programs (STTPs)/ Workshops

1. Prof. D. Rajeshkumar Reddy Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
2. Prof. S. H. Mhabadi Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
3. Dr. J. J. Mane Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
4. Dr. Sandeep Chawda Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”,

- conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
5. Prof. M. N. Tagare Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 6. Prof. N. V. Kelkar Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 7. Prof. P. A. Potdar Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 8. Dr. Sudeep Halder Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 9. Prof. S. S. Wamane Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 10. Dr. A. K. Shrama Participated and successfully completed the AICTE Training and Learning (ATAL) Faculty Development Program on “PRISM: Promoting Renewable Integration with Sustainable Mobility in Smart Cities”, conducted by Sardar Vallabhbhai National Institute of Technology, Surat during 02nd Dec 2024 to 07th Dec 2024.
 11. Prof. R. B. Ingle Participated and successfully completed One-week Short Term Training Program (STTP) on “IPR, Patents, Design, Copyright, Trademarks & Geographical Indication” organized by VPM’s Marashi Parshuram College of Engineering, Velneshwar under NiPAM In association with Indian Society for Technical Education, New Delhi during 01st – 07th December 2024.
 12. Prof. R. B. Ingle participated and successfully completed Workshop on “MATLAB enabling project-based learning with MATLAB, Simulink and Hardware interfacing” on 23rd July 2024 held at FAMT, Ratnagiri.
 13. Prof. M.S. Modak Participated and successfully completed the NPTEL-AICTE Faculty Development Program on “Advance Linear Continuous Control Systems”, Conducted by IIT Roorkee from July to Sept. 2024.

14. Prof. N. N. Kasar Participated in Two Days Training / Workshop program for BIS Club mentors for transacting Lesson plans under “Learning Science via Standards” held during 19-20th December 2024 conducted by BIS.
15. Dr. A.K. Sharma Participated in AICTE recognized Faculty Development Program on “AI for SDGs under Unnat Bharat Abhiyaan”, Conducted by Rural Development Department from 18th Nov. 2024 to 22nd Nov. 2024. at NITTTR Chandigarh.
16. Dr. A. K. Sharma Participated and successfully completed the AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Renewable Energy Resources: Current Status, Future Prospects and Their Enabling Technology”, at SSPM’s College of Engineering, Sindhudurg, on from 16th Dec 2024 to 21st Dec. 2024.

Reviewer

1. Prof. Suhas H. Mhabadi worked as Paper Reviewer in International Conference titled, 2024 IEEE 11th Power India International Conference (PIICON 2024), held at Malaviya National Institute of Technology Jaipur, India in A.Y. 2024-25
2. Dr. Sandeep Chawda worked as Paper Reviewer in IEEE Conference 2024 1st IEEE International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST-2024)
3. Dr. Sandeep Chawda worked as Paper Reviewer in IEEE Conference 2024 2nd International Conference on Advancement in Computation & Computer Technologies (CACCT-2024).

Faculty Publications

International Journal

1. D. Rajeshkumar Reddy, “Improving Grid Stability and Power Quality in Advanced Technologies-Based Bidirectional EV Charging Stations: A Review”, in 2024 4th International Conference on Sustainable Expert Systems (ICSES), 139-148, Conference on 15th -17th October 2024.
2. Dr. Sandeep Chawda, “An overview of strengthening India’s carbon credit system through EV aggregators”, in 2024 IEEE 11th Power India International Conference (PIICON), Jaipur, India, Dec. 2024.
3. Dr. Sudip Halder, International Conference, “Solution of Optimal Power Flow Problems Using Enhanced Hunter Pray Optimization Algorithm, 2024 IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), 23rd October 2024.
4. Dr. Sudip Halder, International Journal (SCI), Application of Soft Computing, “Multi-objective optimal power flow problem using Nelder–Mead based Prairie Dog optimization algorithm”, published on 25th Nov 2024.

NPTEL/ Coursera/ IBM Certification Courses

1. Prof. M. S. Modak Successfully completed Swayam NPTEL Online Certification (Funded by MoE, Govt. of India) course with ELITE Gold grade on “Advanced Linear Continuous Control Systems: Application with MATLAB Programming and Simulink” held in Jul-Sep 2024

Faculty Achievements/ Awards/ Recognition

1. Prof. M. S. Modak Successfully completed Swayam NPTEL Online Certification (Funded by MoE, Govt. of India) course with ELITE Gold grade on “Advanced Linear Continuous Control Systems: Application with MATLAB Programming and Simulink” held in Jul-Sep 2024.

Placements

Hope Foundation's
Finolex Academy of Management & Technology, Ratnagiri
Electrical Engineering Department

PLACEMENT RECORD

Table No. 01: Year-wise placement record

Academic Year	Total No. Students	Eligible Students for Placement	Total Placement Offered
2020-21	75	74	35
2021-22	94	90	83
2022-23	76	69	83*
2023-24	63	34	53*

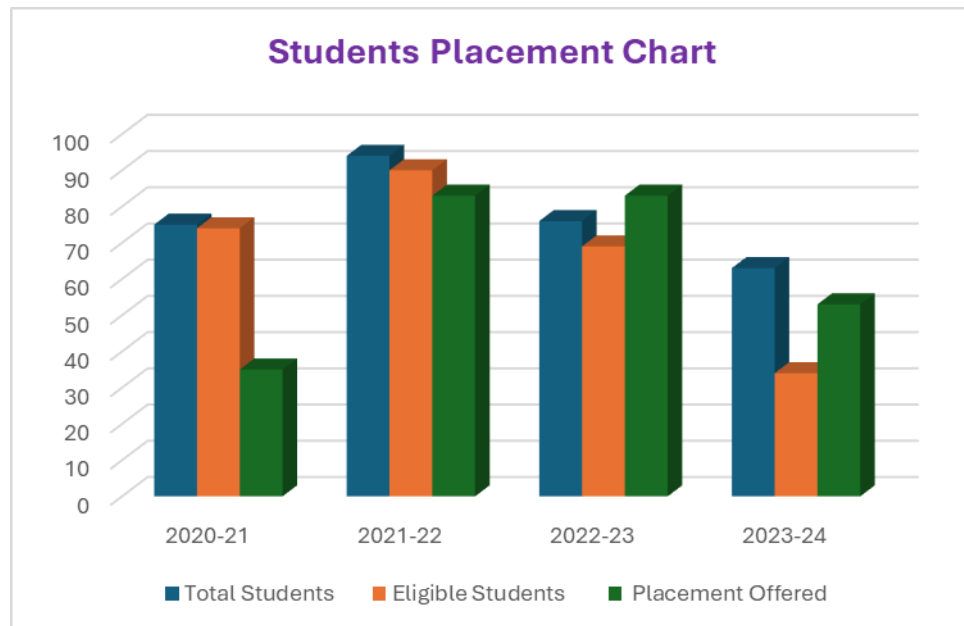


Figure No. 01: Placement record statistics



Our Recruiters





FINOLEX ACADEMY OF MANAGEMENT & TECHNOLOGY, RATNAGIRI
DEPARTMENT OF ELECTRICAL ENGINEERING



Our Esteemed Entrepreneurs



Mr. Manish Apte
Founder of Ratnagreen Techno Services



Mr. Ajinkya Jadhav
Founder of A J Engineers & Contractors



Mr. Yash Patil
Founder of Dhiraj Electricals & Engineers



Mr. Ninad Behere
Director at Dhruva Shipping Consultants & Services Pvt. Ltd.



Mr. Umesh Chougale
Founder Director, and CEO of PowerZone Electro Systems



Mr. Suraj Patil
Managing Director at Affordable Solar Energy Pvt. Ltd.





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DEPARTMENT OF ELECTRICAL ENGINEERING



Industry Collaboration with
Mahindra Susten

