



Hope Foundations'

FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

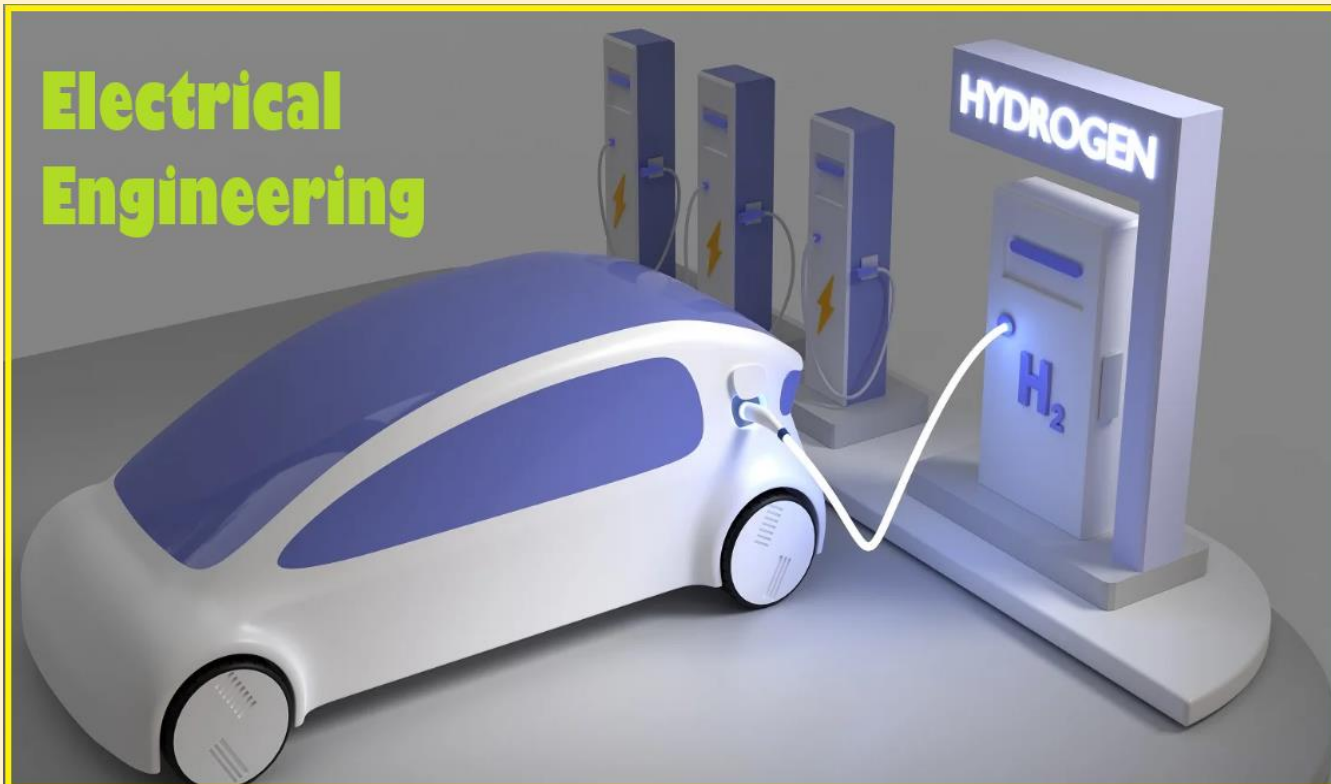
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ELECTRAZINE

E – Newsletter of

Electrical Engineering Department

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Publishers

Department of Electrical Engineering

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List of Faculty/Staff Members in Department

Faculty Members

Dr. Jayant J. Mane (HOD, Electrical)	Prof. Priya A. Potdar (Assistant Professor)
Dr. Sandeep D. Chawda (Associate Professor)	Prof. Sudhir S. Wamane (Assistant Professor)
Prof. Milind N. Tagare (Associate Professor)	Prof. Rupesh B. Ingale (Assistant Professor)
Dr. Aswant K. Sharma (Associate Professor)	Prof. Vaibhav A. Sansare (Assistant Professor)
Prof. Suhas H. Mhabadi (Assistant Professor)	Prof. Prasad J. Kadam (Assistant Professor)
Prof. Nitin V. Kelkar (Assistant Professor)	Prof. Nikhil N. Kasar (Assistant Professor)
Prof. Mangesh S. Modak (Assistant Professor)	Prof. D. Rajeshkumar Reddy ((Assistant Professor)

Staff Member

Mr. Shreeprakash H. Hardikar (Lab-Assistant)

Mr. Swapmil Mohite (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 14 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 02 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.
- Department Average Teaching Experience is 15 years.
- Published almost 65+ papers at National and 35+ papers at international level.
- State of Art and well equipped 08 Laboratories including 02 computer labs with 36 Computers.
- Computer Labs are equipped with MATLAB 2023a licensee software.
- 1 ICT classroom with Digital board, audio-visual and internet facilities, 2 classrooms with LCD projector and internet facilities are available.
- Computer Lab - A and B consists of 36 computers (Acer, Intel i5) with MATLAB, Sci-Lab, MP-Lab, Eagle software etc.
- Separate 21 computers are distributed in faculty members, classrooms, Department office, Project Lab and PLC Lab.
- Programmable Logic Controller Lab with 3 Micro-Logix 1400 Series-B.
- LAN Facility is available in Computer Labs. Free Wi-Fi facility is available to students.
- Department Library with 531books.
- Video lectures of NPTEL courses conducted by all IITs (funded by MHRD, Govt. of India).
- Conduct varies Workshop/Training/ Bridge and Enrichment Courses for the students.

List of Laboratories:

Drives and Control Lab	Computer Lab -I
Switchgear and Protection Lab	Computer Lab -II
Electrical Measurement Lab	Control System Lab
Electrical Machines Lab	Power Electronics and Automation

Programs Organized by the Department

1. Course Industry Expert Session on Opportunities for Electrical Engineers in IT Sector

On August 24th, 2023, the Department of Electrical Engineering at Finolex Academy of Management and Technology, Ratnagiri hosted an Industry Expert Session for its undergraduate students. The session aimed to provide valuable insights into pursuing a career in the IT field, featuring a distinguished alumnus, Mr. Nitin Teli, who currently works as a Senior Test Lead at Mastek UK Ltd.

The event commenced at 10:00 am with a warm welcome from Dr. Jayant Mane, the Head of the Department of Electrical Engineering. Dr. Mane highlighted the significance of such sessions in bridging the gap between academic knowledge and industry requirements. He emphasized the need for students to explore diverse career opportunities within the field of Electrical Engineering.

Mr. Nitin Teli, an esteemed alumnus of Finolex Academy of Management and Technology, Ratnagiri began his presentation at 10:15 am. During the one-hour session, Mr Teli shared his journey from being an electrical engineering student to becoming a successful software engineer in the IT sector. His presentation covered the following key points:

Career Transition: Mr. Teli discussed the process of transitioning from an electrical engineering background to a software engineering role. He shared the challenges he faced and the skills he developed along the way.



Mr. Nitin Teli, Senior Test Lead at Mastek UK Ltd., interacting with students

2. **Electrical Engineering Students on Industrial Visit to Kuwarbaon Transmission Substation**

The Department of Electrical Engineering arranged an **Industrial Visit to Kuwarbaon Transmission** Substation, Ratnagiri on 20th October 2023 for the students of final-year Electrical Engineering. A total of 25 students and 02 faculty members participated in this visit.

Kuwarbaon Transmission Substation is having 75MVA capacity and 110/33KV substation. Initially, **Shri Ashutosh Tambe**, MSETCL Engineer (**Alumnus of FAMT**) explained the SLD of the entire station through an interactive session. Various components of substation, ratings, and usage were discussed in detail. Thereafter, the students were divided into two groups. One of the groups, which was led by **Shri Omkar Mayekar**, **MSETCL Engineer** visited the switchyard of the substation.

The visit ended with a vote of thanks. Prof. M N Tagare expressed gratitude to Shri Ashutosh Tambe for planning the entire visit. Similarly, he thanked Shri Omkar for his kind cooperation and knowledge sharing. Overall, students expressed their satisfaction with the visit. Prof. M.N. Tagare coordinated the visit and Prof. M S Modak accompanied him during the visit. Master Sairaj Sawant Student of BE Electrical held the department in administrative work.



**Group photo with Shri Ashutosh Tambe, Shri Omkar Mayekar
MSETCL**

3. **Electrical Engineering Department Held a Workshop on Industrial Automation**

The three-day workshop on Industrial Automation focusing on Allen Bradley Micrologix 1400 PLCs proved to be a comprehensive learning experience which was held between 26th Sept 2023 to 28th Sept. 2023. Prof. Prasad J. Kadam was the resource person and Prof. Nitin N. Kelkar worked as coordinator, for the same. Participants gained theoretical insights and practical exposure, enhancing their understanding of PLC programming and applications in industrial settings. The collaborative learning environment encouraged active participation, enabling participants to apply learned concepts effectively. The guidance of Prof. Prasad J Kadam, along with coordination from Prof. Nitin V. Kelkar and support from Dr. Jayant J. Mane, significantly contributed to the success of the workshop.

A total of 17 students participated for the above workshop. Feedback from participants indicated a strong grasp of fundamental PLC concepts and an appreciation for the practical hands-on sessions. The workshop effectively bridged the gap between theoretical knowledge and real-world applications, preparing participants for industrial automation challenges.



Prof. P. J. Kadam explaining PLC fundamentals to the students

4. Parent Meeting for Students with Year Drop

A parent meeting was held to address the concerns of parents whose children experienced a year drop in their academic journey. The purpose of the meeting was to provide guidance on effective study planning and to explain the examination rules. Dr. J. J. Mane, the Head of the Electrical Engineering Department, led the discussion.

The meeting commenced with a warm welcome from Dr. J. J. Mane, acknowledging the importance of parental involvement in a student's education. The meeting aimed at addressing the issue of year drops, highlighting that it is a common challenge and should not be seen as a setback but rather an opportunity for improvement.

Study Planning Guidance: Emphasized the significance of effective study planning. He discussed strategies to help students make the most of their additional year, including creating a study schedule, setting achievable goals, and seeking academic support when needed.

Support Services: Information about the various academic support services available at the institution, such as tutoring, counselling, and study groups, was shared with parents.

Examination Rules: Dr. J. J. Mane took the floor to explain the examination rules and regulations. He clarified the expectations regarding academic integrity, the grading system, and the importance of adhering to the code of conduct during exam.



Hod, Electrical, Dr. J. J. Mane interacting with parents

5. **ESSA Arranged Photography Exhibition on World Photography Day**

The Photography Exhibition celebration of World Photography Day was inaugurated with great enthusiasm and excitement on August 19th, 2023. The Principal of FAMT, Dr. Kaushal Prasad, graced the occasion and inaugurated the exhibition. The exhibition remained open to the students and faculty members from the inauguration day until Monday, 21st August 2023. This three-day exhibition allowed ample time for students, faculty members, and photography enthusiasts to explore and appreciate the diverse themes and talents showcased.

Themes and Display:

The exhibition displayed a captivating array of photographs organized into four distinct themes:

Shades of Nature: Nature enthusiasts were treated to a visual feast of vibrant landscapes, breathtaking wildlife, and mesmerizing natural phenomena. The photographers captured the essence of the natural world through their lens.

Hometown Pride: This theme celebrates local culture and heritage. Participants beautifully depicted the rich traditions, landmarks, and hidden gems of their hometowns, fostering a sense of pride and nostalgia.

Dreadful Destinations: The eerie and mysterious side of travel and exploration came to life through this theme. Photographs of haunted places, abandoned buildings, and chilling landscapes sent shivers down the spines of visitors.



Students sharing their experiences with Principal Dr. Kaushal Prasad

6. EESA Held a Tree Plantation Drive

The Electrical Engineering Students Association (EESA) organized a Tree Plantation Drive on Independence Day, 15th August 2023 on the FAMT campus. This initiative aimed to contribute to environmental conservation and promote the spirit of independence by planting trees. We were fortunate to have received a generous donation of 12 saplings from Mr. Mahesh Sapre, Nursery Owner from Lanja and the Parent of BE Electrical Student, Miss Siddhi Sapre.

The event was inaugurated by Dr Kaushal Prasad, the Principal of FAMT, who planted the first sapling. Deans and Heads of Departments (HODs) from all departments of the college actively participated in the tree plantation drive. This inclusive involvement from various academic units of the institution highlighted the collective responsibility and commitment towards a greener future.

The EESA team, comprising enthusiastic student volunteers, played a crucial role in coordinating the event smoothly. Their dedication and efforts ensured the event's success, from planning to execution. We extend our heartfelt gratitude to Mr. Amey Raykar, the Head of the Estate Department, and support staff for their valuable support throughout the tree plantation drive. We thank Mr. Mahesh Sapre for his generous donation and everyone who participated in and supported this event. It is through such collective efforts that we can create a sustainable and greener future for our community and the planet.



Faculty and students photograph during Tree Plantation Drive

7. **One Day Workshop on Introduction to Arduino Programming with Tinkercad**

The one-day workshop on Arduino Programming with Tinkercad was successfully conducted on August 11th, 2023, at Govt. Polytechnic, Malvan. The workshop commenced with an engaging ice breaker activity, followed by a presentation introducing Arduino programming, Tinkercad simulations, and the workshop agenda. The resource persons Dr. Jayant J. Mane and Prof. Rupesh B. Ingle delved into the basics of Arduino components, coding, and hands-on activities. Participants were guided through practical exercises such as LED blinking, push button interaction, and servo motor control. The highlight of the workshop was the mini project, where participants successfully designed a traffic light simulation using Tinkercad components. A total of 30 students of third-year Diploma Electrical, Govt. Polytechnic, Malvan, participated for said workshop.

The event concluded with a Q&A session where participants clarified doubts and shared their experiences. Certificates of participation were distributed to all attendees as a token of appreciation.

The Arduino Programming Workshop with Tinkercad was a resounding success, providing participants with valuable insights into Arduino programming and hands-on experience using Tinkercad simulations. The event not only enriched their technical knowledge but also fostered a sense of curiosity and enthusiasm for future exploration in the field of electrical engineering.



Students expressing gratitude to resource person.

8. EESA Celebrated World Biofuel Day

The World Bio-Fuel Day was celebrated by EESA on **10th August 2023** educate, inspire, and engage participants about the bio-fuels and their role in transition to a greener and more sustainable energy future.

Prof. Raju Marag, Assistant Professor, Dept of Chemical Engineering, FAMT, Ratnagiri delivered a Lecture on Biofuel Technology to a total of 71 Electrical Engineering students as well as faculty members. Prof. Marag discussed the project done by final-year students under his guidance on biofuels

Dr Jayant Mane, Head of the Department (HOD) of Electrical Engineering addressed the gathering on the occasion by acknowledging the importance of World Biofuel Day, a day dedicated to promoting the use of bio fuels as a cleaner and more sustainable alternative to traditional fossil fuels.

The documentary about **Rudolf Diesel** was presented during the Bio Fuel Day Celebration, providing an insightful exploration into the life, inventions, and contributions of the visionary engineer Rudolf Diesel.

Ms. Siddhi Sapre, students of BE Electrical Engineering, delivered a comprehensive presentation on various policies by the government of India related to bio fuels in honour of World Biofuel Day. Ms. Sapre highlighted several key policies that play a crucial role in promoting the production and utilisation of biofuels on a global scale.



Resource person Prof. Raju Marag during lecture session

9. **One Week Workshop on Indian Railway Electrical System**

The Indian Railway Electrical System Workshop with AC Coach Panel and Transformer Testing conducted at the Electrical Department on 1st August 2023. The workshop was inaugurated by Dr. J. J. Mane, Head of the Electrical Department. Prof. D. Rajeshkumar, the Electrical Engineering Department, conducted the workshop. The workshop aimed to introduce participants to Electrical equipment testing and maintenance using different Electrical Instruments and testing kits and comparing testing results in Electrical Machine Lab.

Throughout the workshop, participants actively engaged with the material, asking and participating in discussions. The interactive sessions allowed them to grasp concepts effectively and apply their knowledge to real-world scenarios. The workshop was attended by the final-year students and was coordinated by Mr. Nitin Kelkar, Assistant Professor in the Electrical Department.



Prof. D. Rajeshkumar Reddy explaining Electrical equipment testing to students

10. EESA Celebrated Kargil Vijay Diwas

The Electrical Engineering Student Association celebrated “**Kargil Vijay Diwas Day**” on 27th July 2023 to express gratitude and appreciation to the soldiers. Kargil Vijay Diwas, named after the successful Operation Vijay, is celebrated in India on 26th July 2019, every year to remember and mark tribute to our martyrs and soldiers who fought for the country in the Kargil War of 1999. This day honours the sacrifices and valour of Indian soldiers who fought bravely in the difficult and treacherous terrain of the Kargil region. EESA marked Kargil Vijay Diwas to create awareness among the student community about the sacrifices made by our armed forces and instil a sense of patriotism and respect for our soldiers.

The event commenced with the Indian National Anthem. All students, faculty, and attendees stood up in unity, showcasing their respect and reverence for the country. A documentary about the Kargil War was screened after the short introduction. It depicted the true stories of soldiers, their families, and the overall situation during the war.

The Principal, **Dr. Kaushal Prasad** motivated everyone to embrace their roles as responsible citizens. Similarly, the Head **Dr. Jayant Mane** delivered a speech acknowledging the sacrifices of our freedom fighters and emphasising the responsibilities of the educators and students. **MS Shraddha** from BE Electrical eloquently addressed the audience evoking a sense of patriotism and gratitude for the sacrifices made by our brave soldiers.



Inauguration of Kargil Vijay Diwas Day celebration

Faculty Achievements

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

1. Prof. D. Rajeshkumar conducted one day workshop on, “ The Indian Railway Electrical System- AC Coach Panel and Transformer Testing,” at the Electrical Department on 1st August 2023.
2. Dr. Jayant J. Mane and Prof. Rupesh B. Ingle conducted one-day workshop on, “Arduino Programming with Tinkercad,” for the students of was Govt. Polytechnic, Malvan on August 11th, 2023.
3. Prof. Prasad. J. Kadam conducted Three-day workshop on “Industrial Automation”, using Allen Bradley MicroLogix 1400 1766 series B PLC at FAMT, Ratnagiri, 26th Sept 2023 to 28th Sept. 2023.

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

1. Prof. Suhas H. Mhabadi Participated and successfully completed the one week workshop on "**Electric Vehicle Powertrain Design And Battery Management Systems (EVPDBMS) – Challenges And Solutions**", organized by IEEE PES Student Chapter of IEEE SNIST Student Branch and Department of Electrical and Electronics Engineering (EEE), SNIST In association with SK Powercon Fabricators, Chennai India during 21-26th August 2023.
2. Prof. Suhas H. Mhabadi Participated and successfully completed the Short Term Training Program (STTP) on "**Battery Management in EV-Integrated Microgrids for Sustainable Power Solutions (BMEVIM)**", organized by Department of Electrical and Electronics Engineering (EEE), SNIST and IEEE PES, IAS, PELS, IEEE SB, SNIST In association with HBL Power System Ltd, India during 9-13th Oct 2023.
3. Prof. Rupesh B. Ingle Participated and successfully completed the Short Term Training Program (STTP) on "**Battery Management in EV-Integrated Microgrids for Sustainable Power Solutions (BMEVIM)**", organized by Department of Electrical and Electronics Engineering (EEE), SNIST and IEEE PES, IAS, PELS, IEEE SB, SNIST In association with HBL Power System Ltd, India during 9-13th Oct 2023.

Faculty Publications

1. Dr. Sandeep Chawda and Dr. V. Prakash, “Impact Assessment of Solar Integrated Residential Consumers on Retailer Decision-making”, in International Journal of Smart Grids and Sustainable Energy (2023), vol. 8, no. 14, doi: 10.1007/s40866-023-00171-4, ISSN: 2731-8087, Sept. 2023
2. Prof. Sudip Haldar, “Optimal reactive power dispatch problem using exchange market based butterfly optimization algorithm”, in international Journal of Applied Soft Computing, doi.org/10.1016/j.asoc.2023.110833, ISSN: 1568-4946, Volume 147, November 2023.

NPTEL/ Coursera/ IBM/ Udemy Certification Courses

Faculty Awards

Placements

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PLACEMENT RECORD

Table No. 01: Year-wise placement record

Academic Year	Total No. Students	Eligible Students for Placement	Total Placement Offered
2019-20	54	48	20
2020-21	75	74	35
2021-22	94	90	83
2022-23	76	69	83*

(* Indicates multiple placements considered)

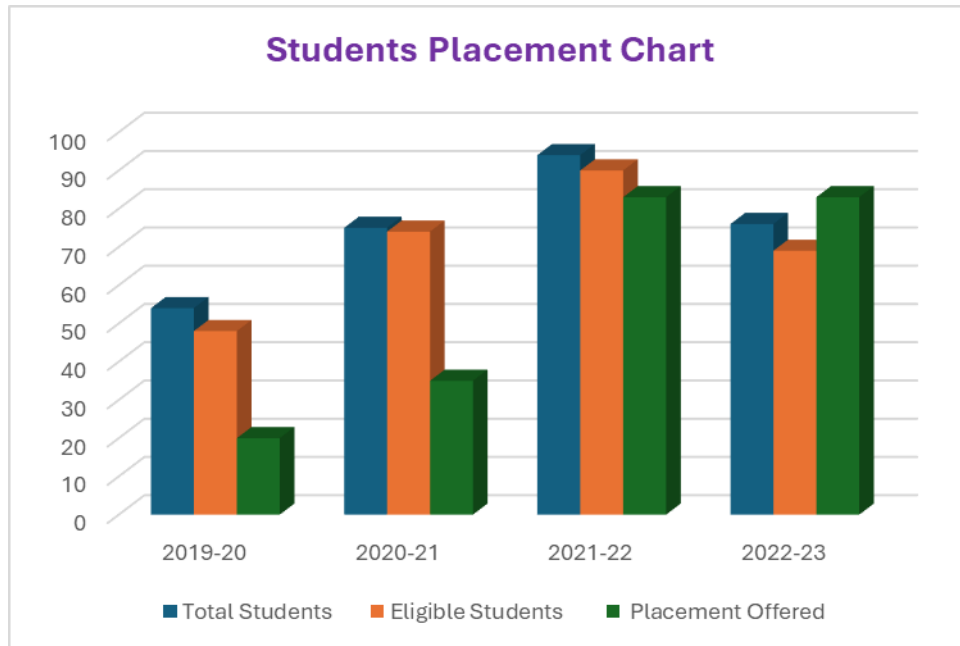


Figure No. 01: Placement record statistics



Our Recruiters



Asahi India Glass Ltd.



SFC Environmental Technologies Pvt. Ltd.



Electromech Infraprojects Pvt. Ltd.



adisoft
technologies
Digitally Yours



Kanekar Consulting
Engineers Pvt. Ltd.



Invented for life



Marine Electricals



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.





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



Social Outreach Events



Mandovi Beach Clean Up Program



Ratnadurg Fort Cleanup Program



Electrical Safety Awareness Program





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