



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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Editorial Board

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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 (Assistant 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)

Staff Member

Mr. Shreeprakash H. Hardikar (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
- All faculty members have completed Post Graduation (ME or M. Tech), 03 faculty are having Doctoral Research Degree (Ph.D.)
- They have completed their PG from renowned institutes like VNIT Nagpur, VJTI Mumbai, COEP Pune, COE Walchand Sangali, PVG COET Pune etc.
- Department Average Teaching Experience is of 15 years.
- Published almost 60+ papers at National level and 30+ papers at international level.
- Well-furnished and well equipped 8 Laboratories including 2 computer labs with 36 Computers.
- 3 Classrooms with minimum 80 students seating facility.
- Computer Lab - I and II consists total 36 computers with Sci-Lab, MP-Lab, Eagle software etc.
- Programmable Logic Controller Lab with 3 Micro-Logix 1400Series-B
- LAN Facility is available in Computer Labs
- Free Wi-Fi facility is available to students.
- Department Library with 531books
- One smart classroom with LCD projector, OHP projector and LAN Facility
- 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 Lab/ PLC Lab

Programs Organized by the Department

1. Industrial Visit to Kuwarbaon Transmission Substation

The Department of Electrical Engineering arranged an Industrial Visit to Kuwarbaon Transmission Substation, Ratnagiri on 12th April 2023 for the students of final-year Electrical Engineering. A total of 25 students and 02 faculty members participated in this visit.

It is a transmission substation 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 the substation, ratings, and usage were discussed in detail. One group, which was led by Shri. Omkar Mayekar, MSETCL Engineer visited the switchyard of the substation. The actual locations, mechanisms, operation procedures of different substation equipment were studied. Students studied power transformers and their different ratings, SF6 breakers, OLTC, Field controls, cooling and protection of transformers. The other group which was led by Shri Ashutosh Tambe visited the control room. The students understood the topics like distance protection, differential protection, REF, O/C and E/F, associated protection relays, their operation and monitoring system. 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.



Electrical Engineering students and Faculty members

2. Two Days Workshop on “Project Design using PROTEUS”

A Two-day workshop on “Project Design using PROTEUS” was organized by the Electrical Engineering Department on the 10th and 11th April 2023. It was inaugurated by the Head of Electrical Engineering Department, Dr Jayant J. Mane by briefing the objectives of the workshop.

Mr. Sudhir S Wamane and Mr. Suhas H. Mhabadi, Assistant Professors, were the resource persons for the said workshop. It was organized for the students of Second Year Electrical Engineering. Students learnt hardware simulation software Proteus and programming software MP-Lab, which are widely used for industrial applications.

The workshop was started by Mr. Sudhir S. Wamane by providing an introduction to Proteus and MP-Lab. Thereafter, Mr. Suhas H. Mhabadi emphasized the Project design by interfacing different IO devices with the microcontroller. Furthermore, the hands-on practice was given to the participants to interface the 7-Segment display, Liquid Crystal Display (LCD), Analog to Digital Converter (ADC) and Timer. In the later session of the workshop, the complete projects of Traffic Signal controller and Voltage, Current & Phase angle measurement and PWM gate pulse generation were demonstrated to the students. The software support for the Peripheral interfacing with the microcontroller was provided using Mp-Lab software. A total of 17 students actively participated and shared positive Feedback. Assistant Professor Mr. Vaibhav A. Sansare co-ordinated this workshop successfully.



. Prof. Sudhir S. Wamane interacting with participants

3. **ELEKTRA 2K23– A Technical Festival by EESA**

Department Electrical Engineering Department successfully organized its technical festival ‘ELEKTRA 2K23’ from 28th Feb to 1st March 2023. Elektra symbolizes shining bright. ELEKTRA 2K23 was commemorated with an inaugural ceremony. Mr. Ninad Behere, (Managing Director) of Dhruva Shipping Consultants and Services Pvt. Ltd., was the Chief Guest for the inaugural ceremony. It started with the introduction of the Chief Guest by Dr Jayant Mane (HoD, Electrical). The Chief Guest Mr. Ninad Behere delivered the inaugural speech. Dr Kaushal Prasad, the Principal, also shared his thought. Prof. Mangesh Modak, (EESA Faculty In-charge), Master Saeedip Rasal (EESA Head), Ms. Afashan Majagaonkar (EESA Head), Faculty members and Faculties of other departments were present for the ceremony.

The Event ended with a vote of thanks by Ms. Afashan Majagaonkar. Following Technical& Non-Technical events were effectively carried out by the committees.

- Circuit building
- Brain teaser
- Multimedia presentation
- Calci-war
- E-waste art
- Glow cricket
- Box Play
- Valorant tournament



Dr. Kaushal Prasad and Mr. Ninad Behere at Inauguration of ELKTRA 2K23

4. **Ratnadurg Fort Clean-up Drive**

Ratnadurga Fort was constructed during the Bahamanees rule and was captured by Adilshah. Later Ch. Shivaji Maharaj took charge of the fort in 1670. Due to garbage piled up and lack of maintenance, this fort was losing its historical glory. Keeping the noble motive in mind to preserve and restore the historical monument, the Department of Electrical Engineering conducted a Clean-up Drive at Ratnadurg Fort on 28th February 2023 in association with the Department of Lifelong Learning Extension FAMT Ratnagiri from 6.30 am to 8.30 am. The drive aimed to remove all the non-biodegradable wastes like plastic covers, plastic straws, rubber, and thermocouple. Before disposal, the plastic waste was segregated and sent for recycling and the rest of the garbage was collected by the Ratnagiri Municipal Corporation to dumping yards. Prof. Sudhir. S. Wamane, the Event Co-ordinator, shared the reason for choosing Ratnadurg fort for the cleaning drive. It was realized that a lot of non-biodegradable wastes and glass bottles were being thrown at the Ratnadurg Fort since it is a popular tourist spot.

A total of 36 students in the second and third year of Electrical Engineering participated in this drive and cleaned the fort. Rohit Sawant and student representatives took efforts to make this event successful. Dr Jayant. J. Mane, the Head and Prof. Sudhir. S. Wamane coordinated the campaign successfully. The initiative brought an impressive change and found a special mention by nearby citizens of the Ratnadurg Fort.



Prof. Sudhir Wamane along with the students of Electrical Engineering

5. A Guest lecture on Electric Safety

In the support of the 'Electric Safety Campaign' by the Government of Maharashtra, the department of Electrical Engineering arranged a Guest lecture on 'Electric Safety' on Monday, 30th January 2023. Mr. Durgesh Sabnis, & Mrs. Pethe Madam, Asst. Electrical Inspector, Ratnagiri were invited as the Chief Guests. Mrs. Bakul Mane Madam, Engineer, MSEDCL along with Mr. Rahate sir were also present on this occasion.

Prof. Dr Jayant J. Mane, Head of Electrical Engineering Department, offered bouquets to welcome the dignitaries. The guest speakers explained the importance of Electric safety in the domestic as well as industrial sector. Further, they narrated the need of creating awareness in society about precautions while handling various domestic appliances. They explained various accidents, their reasons and how they could be avoided if SOPs i.e., Standard Operating Procedures are followed with help of graphics & live videos. They advised the students not to make any compromise on SOPs to ensure the safety of humans, animals and property. They briefed about the expectations of the Energy Department in the students in the forthcoming Electric Safety Week Campaign.

The program ended with questions answer session.



Mr. Durgesh Sabnis interacting with the students

6. Industry Expert Session on Recent Trends in Industrial Automation by SFC Environmental Technologies Pvt. Ltd.

The Industry Expert Session on Recent Trends in Industrial Automation was organized on 24th January 2023 with the focus to transfer the knowledge directly from the people who mastered the technologies to grooming students of the Electrical Engineering Department, FAMT Ratnagiri.

The welcome address was delivered by Dr. Jayant J. Mane, Associate Professor, Head of the Department. In his speech, he appreciated the department to conduct such a program which is very useful to the student community. Prof. Kishor Bhosale, Head, Training and Placement Cell, introduced the guest speaker Mr. Hemant Bhole, Sr. Manager, SFC Environmental Technologies Pvt. Ltd. Mr. Hemant Bhole delivered a talk on “Recent Trends in Industrial Automation”. He highlighted Industrial Automation, Process Control, Instrumentation and different types of Transducers which are used in the automation industry and their development in the recent scenario.

The session ended with a vote of thanks by Mr. Sudhir S. Wamane, Coordinator, T&P Department. A total of around 34 students from Third Year students of Electrical Engineering attended the session and gained information on the requirements and opportunities in the Industrial Automation sector.



Inaugural Function at IT Seminar Hall in the presence of industry experts

7. Industry Expert Session on “Importance of Automation for Electrical Engineers”

The Department of Electrical Engineering, FAMT Ratnagiri had organized an industrial expert session on 22nd February 2023 about “Importance of Automation for Electrical engineers”. Third year Electrical Engineering students participated in this program. The welcome address was delivered by Dr. Jayant Mane, Associate Professor, Head of Department. In his speech he appreciated the department to conducted such program which is very useful to student community. He also emphasized the importance and roles of Automation in Electrical Engineering.

The Guest introduction was given by Dr. Jayant Mane, Associate Professor, Head of Department the session was hand overed to guest speaker Mr. Vivek Sardal, Regional Manager, Prolific Technologies Private Limited, Pune. He delivered a talk on “Application of Electrical Engineering in Automation Industry”. He highlighted the importance of PLC, SCADA and HMI etc. in automation industry and its development in recent scenario through discussion about different live projects he came across. He also discussed various types of PLC products such as Allen Bradley, Siemens. Session was ended with vote of thanks by Mr. Prasad Kadam, Subject In-charge, Electrical Engg. Department. Over all 45 students had participated in this event and availed the benefit from the same.



Recourse person Mr. Vivek Sardal interacting with the students

8. Industrial expert session on “Application of Electrical Engineering in Automation Industry”.

The Department of Electrical Engineering, FAMT Ratnagiri had organized an industrial expert session on 27th February 2023 about “Application of Electrical Engineering in Automation Industry”. Third year Electrical Engineering students were participated in this program. The welcome address was delivered by Dr. Jayant Mane, Associate Professor, Head of Department. In his speech he appreciated the department to conducted such program which is very useful to student community. He also emphasizes the importance and roles of Electrical Engineering based industries in a recent days.

The Guest introduction was given by Mr. Kishor Bhosale, Head, Training and Placement and the session is hand overed to guest speaker Mr. Shashikant Magdum, Corporate Office, Adisoft Technologies Private Limited, Pune. He delivered a talk on “Application of Electrical Engineering in Automation Industry”. He highlighted the application of Electrical Engineers in automation industry and its development in recent scenario. He also discussed various Job description in automation industry Session was ended with vote of thanks by Mr. Sudhir Wamane, Coordinator, T&P Department. Over all 28 students were participated in this event and benefited.



Mr. Shashikant Madum, Resource Person interacting with students

Faculty Achievements

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

1. Prof. Milind. N. Tagare worked as a Resource person for Diploma in Industrial safety and Management of University of Mumbai from 1st Jan to 31st Jan 2023.
2. Prof. Milind. N. Tagare delivered lecture and practical on ‘Energy Audit’ at MP College of Engineering, Velneshwar. held on 16th Feb 2023.
3. Prof. Suhas H. Mhabadi and Prof. Sudhir S. Wamane conducted Two-days’ workshop on “Project Designed using PROTEUS Software” for the students of second year at Electrical Engineering Department during 10th – 11th Aril 2023.
4. Prof. Suhas H. Mhabadi Organized a seminar session for the Third-year students of Government Polytechnic, Ratnagiri and conducted training session on “PROTEUS simulation software” on 15th April 2023.
5. Prof. Priya A. Potdar Organized a seminar session for the Third-year students of Government Polytechnic, Ratnagiri and conducted training session on “Switch Gear Protection demonstration” on 15th April 2023
6. Prof. Mangesh S. Modak Organized a seminar session for the Third-year students of Government Polytechnic, Ratnagiri and conducted training session on “Vedic Mathematics” on 15th April 2023.
7. Prof. Vaibhav A. Sansare Organized a seminar session for the Third-year students of Government Polytechnic, Ratnagiri and conducted training session on “Career Opportunities” on 15th April 2023
8. Prof. Prasad. J. Kadam conducted Three days workshop on “Industrial Automation”, using Allen Bradley Micrologix 1400 1766 series B PLC at FAMT, Ratnagiri during April 2023.

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

1. Prof. Suhas H. Mhabadi Participated and successfully completed the NPTEL-AICTE Faculty Development Program on “Electric Vehicle Part-1”, conducted by Ministry of Education, Govt. of India during Jan-Feb 2023.
2. Prof. Mangesh S. Modak Participated and successfully completed the NPTEL-AICTE Faculty Development Program on “Electric Vehicle Part-1”, conducted by Ministry of Education, Govt. of India during Jan-Feb 2023.

Faculty Publications

International Journal

1. S. Chawda, P. Mathuria, and R. Bhakar, “Load serving entity profit maximization framework for correlated demand and pool price uncertainties”, Technology and Economics of Smart Grids and Sustainable Energy, vol. 8, no. 2, Jan 2023. DOI: 10.1007/40866-022-00158-7. ISSN: 2199-4706

International Conference

2. S. Gupta, B. B. Sharma, V. Prakash, S Chawda, and K. C. Sharma, “Scenarios and modified interval-based wind power uncertainty modelling for decision making in electricity market,” International Conference on Power, Instrumentation, Energy, and Control (PIECON), Aligarh, India, Feb 2023.
3. A. R. Sutar, S. H. Mhabadi and M. S. Patil “Design and Implementation of Quasi Z-source Converter based Battery Charger for Electric Vehicle”, in IEEE 8th International Conference for Convergence in Technology (I2CT), on 7th-9th April - 2023, Lonavala, India, DOI: 10.1109/I2CT 57861.2023.10126454, ISBN: 979-8-3503-3401-2

NPTEL/ Coursera/ IBM Certification Courses

1. Prof. Suhas H. Mhabadi Successfully completed Swayam NPTEL Online Certification (Funded by MoE, Govt. of India) course with ELITE + GOLD grade with 1% Topper on “Electric Vehicle Part-1” held in Jan-Feb 2023.
2. Prof. Mangesh S. Modak Successfully completed Swayam NPTEL Online Certification (Funded by MoE, Govt. of India) course with ELITE + GOLD grade with 1% Topper on “Electric Vehicle Part-1” held in Jan-Feb 2023
3. Dr. Aswant Kumar Sharma successfully completed, “Foundations of Teaching for Learning: Introduction”, an online non-credit course authorized by Commonwealth Education Trust and offered through Coursera, 20th April 2023.
4. Dr. Aswant Kumar Sharma successfully completed, “Foundations of Teaching for Learning: Being a professional”, an online non-credit course authorized by Commonwealth Education Trust and offered through Coursera, 16th July 2023.
5. Dr. Aswant Kumar Sharma successfully completed, “Electrical Vehicle Design” an Online Certificate course offered by Great Learning on 03rd April 2023.

Faculty Awards

1. A Patent has been granted to Dr. Jayant J. Mane for an invention entitled “Systems for Regenerative Braking with Remote Monitoring” by The Patent Office, Govt. of India on 07th June 2023.
2. Prof. Suhas H. Mhabadi Achieved the Elite + Gold grade (1% Topper) in NPTEL online Certified course offered by Indian Institute of Technology, Madras (by Ministry of Education, Govt. of India) in “Electric Vehicle Part-I” on February 2023.
3. Prof. Mangesh S. Modak Achieved the Elite + Gold grade (1% Topper) in Swayam NPTEL online Certified course offered by Indian Institute of Technology, Madras (by Ministry of Education, Govt. of India) in “Electric Vehicle Part-I” on February 2023.
4. Prof. Priya A. Potdar Worked as a Jury in The AWIM Regional Olympics 2022, An initiative for school students by Mahindra & Mahindra Pvt. Ltd. on 23rd Jan 2023.

Placements

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Electrical Engineering Department

PLACEMENT RECORD

Table No. 01: Year-wise placement record

Academic Year	Total No. Students	Eligible Students for Placement	Total Placement Offered
2018-19	76	69	34
2019-20	54	48	20
2020-21	75	74	35
2021-22	94	90	83
2022-23	76	69	83*

(* Indicates multiple placements considered)

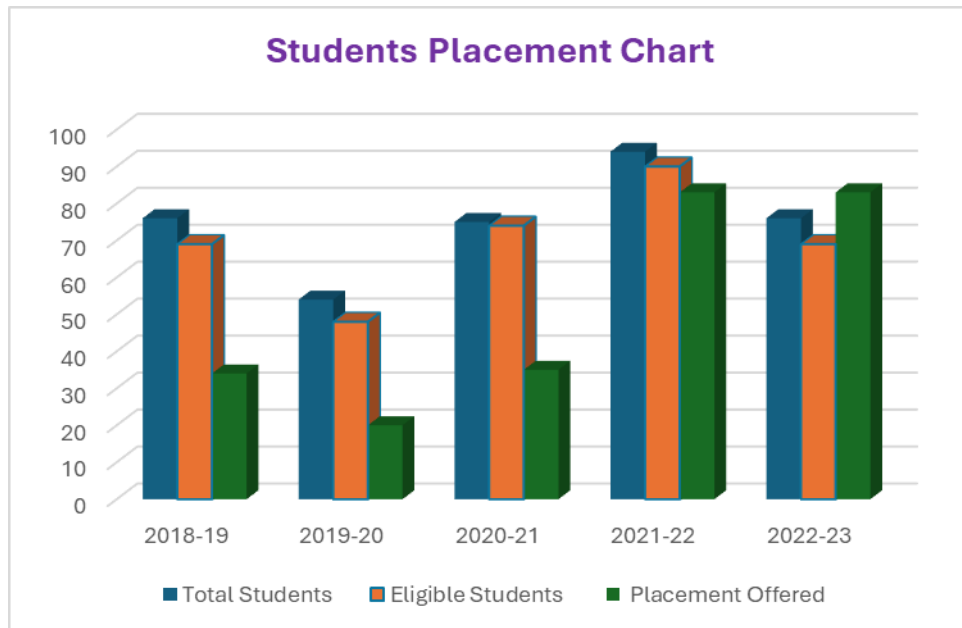


Figure No. 01: Placement record statistics



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25 YEARS ANNIVERSARY



B++ NAAC



We are happy to share that 49 students of Electrical Engineering Department from 2022-23 batch got placed in various reputed companies

												
SFC Enviro. Tech Pvt. Ltd.	SFC Enviro. Tech Pvt. Ltd.	Qspiders	Mahindra TEQO Pvt. Ltd.	Mahindra TEQO Pvt. Ltd.	Mahindra TEQO Pvt. Ltd.	Mahindra TEQO Pvt. Ltd.	Mahindra TEQO Pvt. Ltd.	Mahindra TEQO Pvt. Ltd.	Wipro Pari	Konecranes Pvt. Ltd.	Konecranes Pvt. Ltd.	Konecranes Pvt. Ltd.
												
Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Kanekar Cons. Engg. Pvt. Ltd.	Cikautxo India Pvt. Ltd.	Cikautxo India Pvt. Ltd.
												
Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.
										 <h2 style="font-size: 2em; color: gold;">Congratulations!</h2> <h3>To all placed Students</h3>		
TCS	TCS	TCS	TCS	TCS	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.	Adisoft Tech. Pvt. Ltd.			

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A Project of Hope Foundation- Finolex



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.

