



Hope Foundations'

FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

(Approved by AICTE, recognized by DTE, and Affiliated to Mumbai University,
NAAC Accredited with B++)

ELECTRAZINE

E – Newsletter of

Electrical Engineering Department

Volume 8, Issue 1 (1st Jul. 2022 to 31st Dec. 2022)



Publishers

Department of Electrical Engineering

Head of Department

Dr. Sandeep Chawda

Editorial Board

Prof. Nitin V. Kelkar

Prof. Sudhir S. Wamane

Yash P. Jadhav

Siddhi S. Sapre

Yashawardha D. Jitkar

Contents

1. Departmental Vision
2. Departmental Mission
3. Program Specific Objectives (PSOs)
4. Program Educational Objectives (PSOs)
5. Highlights of the Department
6. Departmental Events
7. Social Events
8. Faculty Achievements
9. Placements

List of Faculty/Staff Members in Department

Faculty Members

Dr. Sandeep D. Chawda (HOD, Electrical)	Prof. Priya A. Potdar (Assistant Professor)
Dr. Jayant J. Mane (Associate Professor)	Prof. Sudhir S. Wamane (Assistant Professor)
Prof. Milind N. Tagare (Associate Professor)	Prof. Rupesh B. Ingale (Assistant Professor)
Prof. Suhas H. Mhabadi (Assistant Professor)	Prof. Vaibhav A. Sansare (Assistant Professor)
Prof. Nitin V. Kelkar (Assistant Professor)	Prof. Aswant K. Sharma (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 11 faculty members
- All faculty members have completed Post Graduation (ME or M. Tech), 02 faculty are having Doctoral Research Degree (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 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 - A and B consists of 36 computers (Acer, Intel i5) 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. Course Enrichment of Fundamental Electrical Design Engineering

'Course Enrichment of Fundamental Electrical Design Engineering' was conducted by the Department of Electrical Engineering on Friday, 11th November 22. Shri. Ranjan Kadulkar, BE Electrical from VJTI and having 30+ years of experience in the field of Electrical Design and maintenance was the speaker. Shri Ranjan started his session by asking very fundamental questions which are frequently asked in an interview. Through this exercise, he urged the students to think and correlate the theory they learnt and practices followed in the industry. During his interactive session, he touched many points like load list, HV/LV switchgear, sizing of cables, motor and their starting methods, different types of earthing and their choice etc. During the session, he covered a few case studies of Design and maintenance. In the beginning, Prof. Milind N. Tagare explained the need for and importance of fundamental knowledge of Electrical Engineering. Dr Sandeep Chawda, the Head, Electrical Engineering Department welcomed the guests and offered a flower bouquet.

Prof. Milind N. Tagare was the coordinator of the program. A total of 60 students and 1 faculty member took benefits of the Program. The program ended with a vote of thanks. Many students expressed their satisfaction with the conduction of the event.



Prof. Sandeep Chawda welcoming the speaker

2. **Electrical Engineering Students on Industrial Visit to Finolex Power Plant**

The Department of Electrical Engineering arranged an Industrial Visit to Finolex Power Plant, Ranpar Ratnagiri on 10th October 2022 and 13th October 2022 for the students of final-year Electrical Engineering and second-year Engineering respectively.

The subject of Power Plant Engineering was excluded from the Electrical Engineering curriculum since the 2019 revised curriculum. To bridge this gap and to impart knowledge of thermal power plants, a visit was organized. A total of 72 students and 05 faculty members visited the plant. The detailed working of the coal-based power plant was shared with the students. Mr. Yogesh Teredesai, (Dy. Manager HR) shared information about Finolex Industries Limited and the Captive power plant. The technical information was explained by Mr. Swapnil Yelurkar, Mr. Amol Garde and Mr Jatin Shetye. The students learnt different systems like coal handling systems, ash handling systems, raw material unloading, water treatment plants, steam boilers, turbine-generator, Air preheaters, Economizer, ESP, AIS & its components and DCS (Plant control).

The visit ended with a vote of thanks to Shri. Kakade Sir, Shri. Bhattacharya Sir and the team associated with the visit for their cooperation. Prof. Milind N. Tagare, Dr. Jayant J Mane, Prof. Vaibhav. A. Sansare, Prof. Priya A. Potdar and Prof. Rupesh. B. Ingle coordinated the visits.



Group photograph taken outside the Power plant

3. Parents' Meet for SE and TE Electrical

Department of Electrical Engineering conducted a Parents Meet for S.E. and T.E. Students (2022-23 batch) in physical and virtual mode. The physical parents' meet was conducted on 21st August 2022. A virtual parent meet was conducted on 26th September 2022. Both meetings were organized to disseminate information on the institute and department functioning and interaction between the parents and faculty members.

Dr. Kaushal Prasad, Principal, FAMT addressed the parents and pointed out the various achievements, awards, and recognition received by the institute. He shared that the various efforts taken for students are helping them to perform well in university exams and secure ranks at university. He emphasized how placement and training activities are resulting in a higher number of placements. He also shared how the support of parents could help the institution to achieve its mission and vision. Dr Sandeep Chawda, Head of the Electrical Engineering Department welcomed the parents. A detailed presentation was given by Dr Jayant J. Mane where the department's Vision-Mission, Teaching Learning process, Co-curricular and extracurricular activities, mentoring system, Alumni interaction, and achievements of faculty and students were shared. An interactive question and answer session was held where queries of parents are addressed by the head and faculty members. Individual performance of the student was shared with the parent by respective mentors. Suggestions and feedback were invited.

The meeting was concluded with a vote of thanks by Prof. Milind N. Tagare.



Dr. Sandeep Chawda interacting with the parents

4. EESA Celebrated Teacher's and Engineers' Day

Electrical Engineering Student Association celebrated Teachers' Day and Engineers' Day on 17th September 2022 to express gratitude and appreciation to the Teachers and Engineers. Teacher's Day and Engineer's Day are celebrated to pay tribute to Dr Sarvepalli Radhakrishnan and Mokshagundam Visvesvaraya on 5th September and 15th September respectively every year.

The students of BE and TE taught on this day by drafting timetables and delivering workshops from SE to BE were followed by a program to celebrate the occasion. A workshop on Aptitude Training was conducted by Afshan Majgaonkar (student from BE Electrical) for SE and TE students. Parag Prabhu (a student from BE Electrical) gave information about Basic Measuring instruments. A workshop on metering techniques was also conducted by Sairaj Sawant (Student from BE Electrical).

A student-teacher interaction program was arranged by the students wherein the students' asked questions to the teachers and teachers shared their experience.

It was followed by Funny games for students as well as teachers.



Teacher – Students interaction during the program

5. An Expert Lecture on Microgrid System for Smart Grid

Department of Electrical Engineering organized an Expert Lecture on “Microgrid System for Smart Grid” on 16 September 2022 for BE Electrical students. Dr Tanuj Rawat, Assistant Professor, Electrical Engineering Department, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, Rajasthan was the resource person for the lecture.

The lecture was helpful to understand the concept of Microgrids and Smart Grids. Dr. Rawat has shared a practical case study to demonstrate the working and role of microgrids and their importance in the existing grid.

The lecture has widened the understanding of students about the position of microgrids in the transformation of the existing grid toward a smart and sustainable power grid. A Q&A session was conducted to clear the queries of the session.

56 Electrical engineering students and two faculty members attended the lecture online. from the classroom. The lecture was arranged and coordinated by Dr. Sandeep D. Chawda and Prof. Milind. N. Tagare. The lecture ended with a vote of thanks.



The poster is a vertical rectangular graphic with a light blue background. At the top left is a 3D visualization of a smart grid network with orange and yellow nodes and connecting lines. Below this is a square portrait of Dr. Tanuj Rawat, a man with glasses and a beard, wearing a blue and white checkered shirt. To the right of the portrait is the text 'Dr. Tanuj Rawat'. In the top right corner is the FAMT logo (a blue square with 'FAMT' in white) and the text 'FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY'. Below the logo is the motto 'सिद्धिर्भवति कर्मजा' and the website 'www.famt.ac.in'. In the top right corner is the NAAC B++ accreditation logo. The main text of the poster is centered and reads: 'Department of Electrical Engineering Organizes An Expert Lecture on Microgrid Systems for Smart Grid 16th September 2022 Eminent Speaker Dr. Tanuj Rawat Assistant Professor, Electrical Engineering Department, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur'. At the bottom left is a small SKIT logo.

Microgrid Systems for Smart Grid event poster

6. ‘Udyamita Protsahan Sammelan’

‘Udyamita Protsahan Sammelan’ a program to encourage and inculcate a culture of entrepreneurship among students was organized by the Department of Electrical Engineering on Friday, 12th August 2022. A total of 112 students and 11 faculty members benefited from the Program. Shri. Prashant Deshpande, Member of Central Sensor Board, GoI, and an entrepreneur running a Solar business was the Chief Guest of the program. Shri Hrishikesh Kondekar and Shri Manish Apte, entrepreneurs and alumni of FAMT, were guests of the program.

Hrishikesh Kondekar, BE Mechanical, started a company “Sourmandal” in the field of solar energy in May 2018. He shared his story of starting the company. He discussed that there were hurdles in the path of becoming an entrepreneur.

Manish Apte, BE Electrical, owner of “Ratnagreen Techno Services” Ratnagiri. This company works in the field of fabrication of Compost Units, Biogas Units, and Organic waste disposal machines. This company was established in the Year 2019. He shared how this business concept came into his mind and how it has turned into reality.

Shri Deshpande shared his thought that India can become self-reliant if a culture of entrepreneurship is imbibed from a young age. Dr Jayant. J. Mane (IEDC in charge) shared the motive of program. Dr Sandeep Chawda, HoD, Electrical Engineering Department welcomed the guests. Prof. Milind N. Tagare was the Anchor of the program. All the department faculty members helped to make this event successful. The program ended with a vote of thanks. Many students expressed their satisfaction with the conduction of the event.



Prof. Milind. N. Tagare anchoring for the event.

7. Add-On Course on Soft Computing for Electrical Engineering Students

An Add on Course on Soft Computing was organized by the Department of Electrical Engineering on 30th July 2022. This course was organized for BE Electrical students to provide insights into soft computing.

The course was conducted by Prof. Mangesh S Modak, Assistant professor, Department of Electrical Engineering, FAMT, Ratnagiri Different soft computing techniques covered in the course were:

- Artificial Neural Network
- Fuzzy logic
- Genetic Algorithm
- Particle swarm optimization
- Artificial bee colony

All the participants enthusiastically attended the program and were satisfied by the valuable knowledge delivered by Prof. Mangesh S Modak.



Prof. M. S. Modak during conduction of Add-on Course

Faculty Achievements

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

1. Dr. Jayant J. Mane and Prof. Suhas H. Mhabadi Organized and Co-ordinated seminar on “Swadeshi Udyamita Diwas” in association with Swadeshi Jagaran Manch for the students of second year Electrical on 12th December 2022.
2. Prof. Rupesh B. Ingle conducted Two days workshop on “Introduction to Data Science and its application in Electrical Engineering” on 06th October and 07th October 2022.

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

1. Dr. Aswant Kumar Sharma participated and completed One-week STTP on “Power Electronics for Renewable Energy Applications”, organized by Rajasthan Technical University, Kota offered by NITTTR Chandigarh during 31st Oct 2022 to 04th Nov. 2022.
2. Prof. Suhas H. Mhabadi Participated and successfully completed the training on “Innovation Ambassador (IA) Training – Fundamental Level”, conducted by MOE’s innovation cell and AICTE on 8th August 2022.
3. Prof. Rupesh B. Ingle successfully completed FDP on, “Python for Data Science”, conducted by NPTEL-AICTE during July-Aug 2022
4. Prof. Rupesh B. Ingle attended webinar on “Image Classification using Edge Impulse (An Application of IoT and Machine Learning)” conducted by The IoT Academy on 03rd July 2022.

Faculty Publications

Book/ Chapter Published

1. Prof. Vaibhav A. Sansare published a book on “Power Systems-II”, for Technical Publication, Pune in July 2022, ISBN No: 978-93-90770-75-5.

NPTEL/ Coursera/ IBM/ Udemy Certification Courses

1. Prof. Suhas H. Mhabadi Successfully completed Swayam NPTEL Online Certification (Funded by MOE, Govt. of India) course with Elite grade on “Digital Circuit” held in July-Oct 2022.
2. Prof. Suhas H. Mhabadi Successfully completed Udemy Online Certification on “Electric Vehicle Technology” course on 6th August 2022.
3. Prof. Rupesh B. Ingle successfully completed Swayam (NPTEL) online

certification course with 1% Topper with silver on, “Python for Data Science”, conducted during July-Aug 2022.

4. Prof. Suhas H. Mhabadi Completed Project Certificate on “Deep Learning with Pytorch: Neural style transfer” conducted by Coursera Project Network on 20th August 2022.
5. Prof. Suhas H. Mhabadi Completed Project Certificate on “Deep Learning with Pytorch: Object Localization” conducted by Coursera Project Network on 20th August 2022.
6. Prof. Suhas H. Mhabadi Completed Project Certificate on “Regular Expressions in Python” conducted by Coursera Project Network on 20th August 2022.
7. Prof. Rupesh B. Ingle successfully completed online certification Course on “Excel Basics for Data Analysis” offered by Coursera course and by IBM on 16th Aug 2022.

Faculty Awards

1. Dr. Jayant J. Mane received Jury member certificate at “Maharashtra Start up Yatra 2022” from Maharashtra State Innovation Society, Department of Skill, Employment, Entrepreneur and Innovation, Government of Maharashtra during 13th – 14th Oct. 2022.
2. Prof. Suhas H. Mhabadi received Jury member certificate at “Maharashtra Start up Yatra 2022” from Maharashtra State Innovation Society, Department of Skill, Employment, Entrepreneur and Innovation, Government of Maharashtra during 13th – 14th Oct. 2022.
3. Prof. Suhas H. Mhabadi Achieved the Elite grade in NPTEL online certified course offered by Indian Institute of Technology, Kharagpur (by Ministry of Education, Govt. of India) on “Digital Circuit” on Oct 2022.
4. Prof. Rupesh B. Ingle Achieved the Elite+ Silver grade (1% Topper) Swayam (NPTEL) online certification course on, “Python for Data Science”, conducted during July-Aug 2022.

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
2018-19	76	69	34
2019-20	54	48	20
2020-21	75	74	35
2021-22	94	90	83

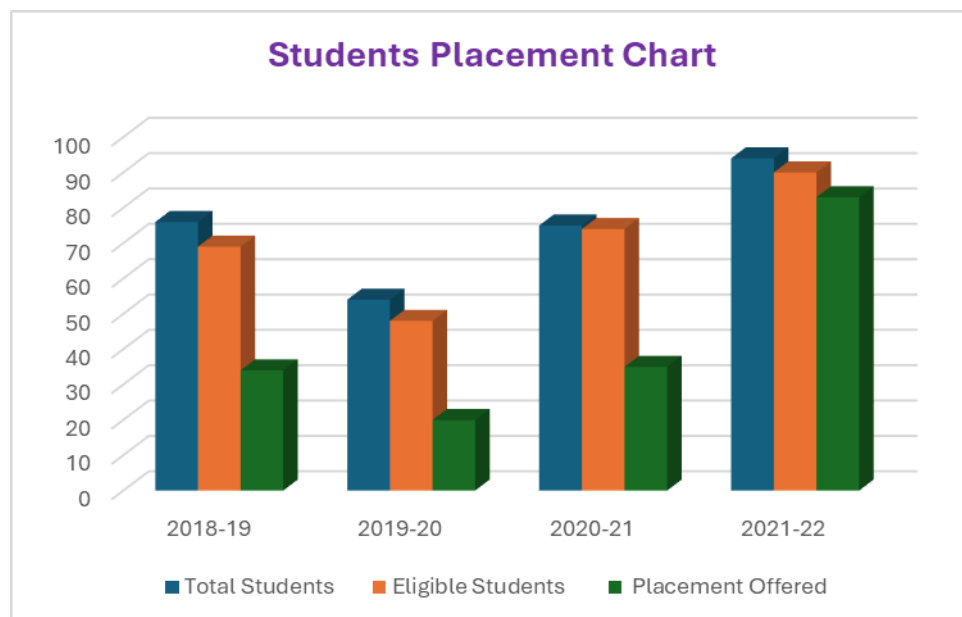


Figure No. 01: Placement record statistics



सिद्धि भवति कर्म जा
www.famt.ac.in

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.

