



Hope Foundations'

FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI

(Approved by AICTE, recognized by DTE, and Affiliated to Mumbai University)

ELECTRAZINE

E – Newsletter of

Electrical Engineering Department

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Publishers

Prof. Suhas H. Mhabadi (Head of Department)

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Contents

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

List of Faculty/Staff Members in Department

Faculty Members	
Prof. Suhas H. Mhabadi (HOD)	Prof. Leslie Fernandes (Assistant Professor)
Prof. Milind N. Tagare (Associate Professor)	Prof. Priya A. Potdar (Assistant Professor)
Prof. Nitin V. Kelkar (Assistant Professor)	Prof. Vaibhav A. Sansare (Assistant Professor)
Prof. Jayant J. Mane (Assistant Professor)	Prof. Nilashri P. Sakhalkar (Assistant Professor)
Prof. Mangesh S. Modak (Assistant Professor)	Prof. Kiran M. Keshyagol (Assistant Professor)
Prof. Sudhir S. Wamane (Assistant Professor)	Prof. Harshal P. Gosavi (Assistant Professor)
Dr. Satyendra Kumar (Associate Professor)	
Staff Member	
Mr. Shriprakash H. Hardikar (Lab Assistant)	

Department Vision

The department shall become the foremost seat in advanced and progressive learning, with excellent professional skills and character to lead and serve the society at large.

Department Mission

M1: To provide conducive environment in view to transform students into quality engineers who will excel globally with creative and entrepreneurial skills.

M2: To enhance teaching - learning process through relevant pedagogies and continual assessment.

M3: To promote the versatile development of students through training of interpersonal skills, managerial skills, leadership communication skills.

M4: To inculcate moral, ethical and social values among the 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.

Highlights of the Department

- Department has 12 faculty members
- All of them have completed Post Graduation (ME or M. Tech) and 1 faculty is pursuing Ph.D.
- They have completed their PG from renowned institutes like VNIT Nagpur, VJTI Mumbai, COEP Pune, COE Walchand Sangali, PVG COET Puneetc.
- Average Experience is of 11years.
- Published almost 45+ papers at National level and 15+ 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.

Department of Electrical Engineering, FAMT Ratnagiri

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

- Computer Lab - I and II consists total 36 computers with SciLab, MPLab, PROTEUS, Eagle software etc.
- 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.
- Study material for GATE exam
- Video lectures of NPTEL courses conducted by all IITs (funded by MHRD, Govt. of India).
- One computer with printer for students
- Programmable Logic Controller Lab with 3 Micro-Logix 1400Series-B
- Conduct varies Workshop/Training/ Bridge and Enrichment Courses for the students.

Programs Organized by the Department

1. A one day workshop on “Fundamentals of Python” was organized by Electrical Engineering Department on 27th July, 2019. The workshop was inaugurated by the Head of Electrical Engineering department Prof. Suhas H. Mhabadi with his informative and motivational talk on Python. It was conducted by Prof. Kiran M. Keshyagol for the students of Electrical Engineering Department. Prof. Kiran M. Keshyagol emphasized on Functions, Strings, Top Down Design, Commenting, If / Else, For loop, While loop and Code Indentation.

Total 32 students of Electrical Engineering actively participated in the workshop and shared their Feedback regarding the workshop that they enjoyed learning Python programming language. Master Sandeep Kulkarni and Master Rahul Prasad assisted the participants while writing and running the program code in Jupyter notebook. Mr. Sudhir S. Wamane took efforts to organize this workshop.



Prof. Kiran M. Keshyagol interacting with the participants

1. Shri. Sanket Devalekar Asst. Commissioner of Police, and alumnus of FAMT delivered a motivational talk on Tuesday, 20th August, 2019. The program was conducted as a part of Induction Program for First Year Engineering as per the guidelines of AICTE. Total 199 Students were present for the program. Dr. Kaushal Prasad, Principal, felicitated Shri. Sanket Devalekar with a bouquet and shawl. Prof. M. N. Tagare, Faculty In-charge Alumni Association introduced Shri. Sanket Devlekar and explained the purpose of programme. While interacting with the

Department of Electrical Engineering, FAMT Ratnagiri

students, Shri. Sanket Devalekar briefed about his credentials and shared how he was driven to study competitive examinations like UPSC and MPSC, how he could learn from the mistakes he committed during graduation. He advised them to keep their goals high and make hard efforts to achieve it. At the end of the session, he shared information on different post advertised by MPSC and UPSC exams.

Prof. Dr. S. B. Kulkarni proposed the vote of thanks. Prof. M. N. Tagare and Prof. Dr. S. B. Kulkarni took efforts to organize this event.



Felicitatation of Shri. Sanket Devalekar by Principal Dr.Kaushal Prasad and Dr. S. B. Kulkarni

2. Electrical Engineering Students Association organized an Aptitude Training Programme on 24th August,2019 for the First Year Engineering Students. Choosing a career does not simply mean deciding upon the ultimate career profile for success; rather it means that the person should have the potential to grow with that career and achieve success step by step. The very first stage in any recruitment drive is the aptitude test through which students are selected for the next stages. Keeping in consideration this significance of the aptitude test, EESA decided to arrange the training session for the First year engineering students in order to train and make them aware of the procedure of placement drives.

The training session was divided in three parts- Quantitative Aptitude, Logic and reasoning and Verbal competencies.



EESA Coordinators conducting the training session

3. We are aware of the problems due to global warming and climatic changes. At the backdrop of energy sustainability and mitigating the climatic changes, the idea of 'Energy Swaraj' has been conceptualized by IIT, Bombay. Through Gandhi Global Solar Yatra (GGSY), the young generation will be made integral part of the clean energy revolution. Gandhi Global Solar Yatra Workshop was organized on 7th October, 2019 by Electrical Engineering Department. Dr. Kaushal Prasad inaugurated the event and enlightened the students on the world energy scenario and importance of energy conservation. The Workshop Associate Prof. M. N. Tagare explained the importance and motive behind organizing this workshop. Prof. S. H. Mhabadi HOD, Electrical was also present for the inaugural function.

50 students of various branches participated in the workshop to be the Solar Student Ambassadors. During subsequent sessions, Master trainer Prof. J. J. Mane briefed about the solar energy and its importance, and explained the tool kit, physical components involved and the testing methods for Solar Energy. In the final session, Master trainer Prof. Leslie Fernandes demonstrated the step by step method for assembly of lamps and explained the test points and precautions. The workshop was organized by Dr. S. S. Goilkar Dean, RD&C Cell and Prof. M. N. Tagare was Workshop Coordinator.



The celebration of success....!!!!!!

4. An industrial visit to a Grid Connected Solar Power Plant was organized on 11th October, by the Electrical Engineering Department for TE students who elected to study REES subject. The visit was conducted by Prof. H. P. Gosavi Assistant Professor, to give practical exposure to the students about the solar PV plant.

It was a 5KW Solar Power Plant situated at Shantinagar, Ratnagiri established for residential load in the premises of Mr. Dhamapurkar. Mr. Rushikesh Kondekar from Saurmandal Solar briefed the students during the industrial visit, who had designed and constructed the plant.



Mr. Rushikesh Kondekar explaining Solar panel assembly

Department of Electrical Engineering, FAMT Ratnagiri

Total 25 students actively participated in the visit and shared their feedback regarding the visit and responded that they could learn many practical aspects of Solar PV Plant. H P Gosavi conveyed her thankful words to Mr. Rushikesh Kondekar for a successful visit.

Social Events

1. As Beach cleanup is considered to be very important because throwing trash on the beaches and into the ocean which is a better known pollution. In Ratnagiri, during the Ganesh Visarjan, Ganesh idols are immersed into the sea at various beaches. During the process, a lot of offerings are also immersed. Since many of idols are made up of Plaster of Paris which does not dissolve and the broken parts of the idol and offerings are brought back to the sea shore by waves. It is a very piteous situation. With this view and due respect to holy occasion, the beaches need to be cleaned immediately. The students of Department of Electrical Engineering, Finolex Academy of Management and Technology took part in the beach cleanup drive every year. This year, the drive was organized on Friday, 13 September, 2019 at 6.30am on Mandovi beach which is closed to Ratnagiri city.

44 students of the department led by Prof. Sudhir Wamane cleaned the entire beach jointly with Mr. Dhiraj Patkar, Founder of Jiddi Mountaineering. Prof. S .H. Mhabadi (HoD, Electrical Engineering), Mr. M. N. Tagare, and Mr. Kiran Keshyagoal helped Prof. Sudhir Wamane to coordinate the drive successfully.



Students participating in drive with Prof. S. S. Wamane

Faculty Achievements

Journal/Conference Publications

1. Prof. Jayant J Mane published paper entitled as “Investigation of Periodic Orbits and Chaos in Current Controlled Boost Converter” in International Conference on Material Science, Smart Structures and Applications (ICMSS 2019) held in October 2019.
2. Prof. Jayant J Mane published paper entitled as “Analysis of Periodic Orbits and Chaos Produced in 1-D Liner Piecewise-Smooth Maps with single discontinuity, Positive and Negative slopes” in International Conference on Material Science, Smart Structures and Applications (ICMSS 2019) held at Mumbai in October 2019.
3. Prof. Vaibhav A Sansare published paper entitled as “Design of Controlled Boost Converter for PV based Charging Application” in International Journal of Research and Analytical Reviews (IJRAR) in 2019-20
4. Prof. Nilashri P Sakhalkar published paper entitled as “System and Method for Passive Cell Balancing with Multicell Li-Ion Battery Voltage Monitoring” in Journal of Emerging Technologies and Innovative Research (JETIR) in 2019-20
5. Prof. Jayant J Mane published paper entitled as “Research of Periodic Orbits and Chaos in Current Controlled Boost Converter” in International Journal of Engineering and Advanced Technology (IJEAT), in September 2019.
6. Prof. Jayant J Mane published paper entitled as “Research of Periodic Orbits and Chaos Produced in 1-D Liner Piecewise-Smooth Maps with Single Discontinuity, Positive and Negative Slopes” in International Journal of Recent Technology and Engineering (IJRTE), in September 2019.

NPTEL Online Certification

1. Prof. Vaibhav A Sansare successfully completed the NPTEL Course in Electrical Machines-I with Elite grade in October 2019
2. Prof. Suhas H Mhabadi successfully completed the NPTEL Course in “Electrical Machines-I” with Elite plus Silver grade in October 2019
3. Prof. Mangesh S. Modak successfully completed the NPTEL Course in “Electrical Machines” with Elite in October 2019
4. Prof. Harshal P. Gosavi has completed NPTEL and achieved Elite grade certification in the course “Introduction to Smart Grid” in September 2019.
5. Prof. Priya A Potdar has completed NPTEL and achieved Elite grade certification in the course “Introduction to Smart Grid” in September 2019.
6. Prof. Milind N Tagare has completed NPTEL and achieved Elite grade certification in the course “Electrical Machines” in October 2019.
7. Prof. Nitin V Kelkar has completed NPTEL and achieved Elite plus Silver grade certification in the course “Electrical Machines” in October 2019.

Department of Electrical Engineering, FAMT Ratnagiri

8. Prof. Nilashri P Sakhalkar has completed Udemty certification Course in “Electrical Vehicles” in Dec 2019.
9. Prof. Nilashri P Sakhalkar has completed Udemty certification Course in “Internet of Things” in Nov 2019.
10. Prof. Nilashri P Sakhalkar has completed Udemty certification Course in “introduction to lithium ion battery management” in Dec 2019
11. Prof. Nilashri P Sakhalkar has completed Udemty certification Course in “Arduino step by step” in Nov 2019

Faculty Development Programs

1. Prof. Magesh S Modak has completed STTP in Modelling and Real Time Implementation of Electrical System (AICTE Sponsored) organized by NITTTR, Chandigarh in Sept 2019
2. Prof. Suhas H Mhabadi has completed STTP in Energy Efficient Practices in Refrigeration and Air Conditioning organized by FAMT, Ratnagiri in Dec- 2019
3. Prof. Milind N Tagare has completed STTP in Energy Efficient Practices in Refrigeration and Air Conditioning organized by FAMT, Ratnagiri in Dec- 2019
4. Prof. Nitin V Kelkar has completed STTP in Energy Efficient Practices in Refrigeration and Air Conditioning organized by FAMT, Ratnagiri in Dec- 2019
5. Prof. Vaibhav a Sansare has completed STTP in Energy Efficient Practices in Refrigeration and Air Conditioning organized by FAMT, Ratnagiri in Dec- 2019
6. Prof. Priya A Potdar has completed STTP in Energy Efficient Practices in Refrigeration and Air Conditioning organized by FAMT, Ratnagiri in Dec- 2019

Placements

During academic year 2019-20, total 55 students were eligible for placements out of which **08 students** have been offered jobs in various organizations in odd semester of A.Y. 2019-20