

Volume 8 Issue 1
(1ST Jan 2024 TO 30TH June 2024)



Department of Mechanical Engineering

MECHAZINE

Bi Annual Bulletin



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⚙️ Mrs. Abhilasha S. Jadhav	(Assistant Professor)
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⚙️ Mr. Jayesh S. Anavkar	(Assistant Professor)
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⚙️ Mr. Shodhan U. Mayekar	(Assistant Professor)
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Staff Members

- ⚙️ Mr. R. V. Utekar
- ⚙️ Mr. A. V. Nhivekar
- ⚙️ Mr. A. A. Lingayat
- ⚙️ Mr. V. V. Lohar
- ⚙️ Mr. D. Y. Mestry
- ⚙️ Mr. M. V. Shetye
- ⚙️ Mr. P. S. Korgaonkar

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VISION

- ⚙️ **To become a center of quality education by developing competent engineers who can address global challenges in the field of mechanical engineering.**

MISION

- ⚙️ **To establish state of the art facilities in department enabling effective training of students and creating research environment**
- ⚙️ **Evolve competent technical professionals through effective delivery of curriculum and contents beyond, which fulfil the needs of industry and society.**
- ⚙️ **To inculcate sense of social responsibility and human values amongst the students.**

PROGRAM SPECIFIC OUTCOMES

- ⚙️ **Students will be able to investigate problems in the fields of design, thermal and manufacturing processes through application of statistical techniques**
- ⚙️ **Students will be able to provide computer-based automation solutions to mechanical and allied industries.**

PROGRAM EDUCATIONAL OBJECTIVES

- ❁ To prepare the stakeholder to exhibit leadership qualities with demonstrable attributes in lifelong learning to contribute to the societal needs.
- ❁ To make ready the stakeholder to pursue higher education for professional development.
- ❁ To help the stakeholder to acquire the analytical and technical skills, knowledge, analytical ability attitude and behavior through the program.
- ❁ To prepare the stakeholders with a sound foundation in the mathematical, scientific and engineering fundamentals.
- ❁ To motivate the learner in the art of self-learning and to use modern tools for solving real life problems and also inculcate a professional and ethical attitude and good leadership qualities.
- ❁ To prepare the stakeholder to be able to Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

Programs Organized by department

Four Days (32 hours) Value Added course on SolidWorks

Department of Mechanical Engineering organized 32 hours Skill-based Certification Course on SolidWorks in association with MechaTol Product Engineering Solutions Pvt. Ltd. Pune, under the guidance of Dr. M.S. Kirkire (Head- Mechanical Engineering Department) from 10th to 13th January 2024 for T.E and B.E. Mechanical Engineering students.

Dr. M. S. Kirkire introduced Mr. Anand Bhise Director, MechaTol Product Engineering Solutions Pvt. Ltd. Pune and highlighted the importance of SolidWorks Skills during the inaugural function.



Hands-on Practical sessions



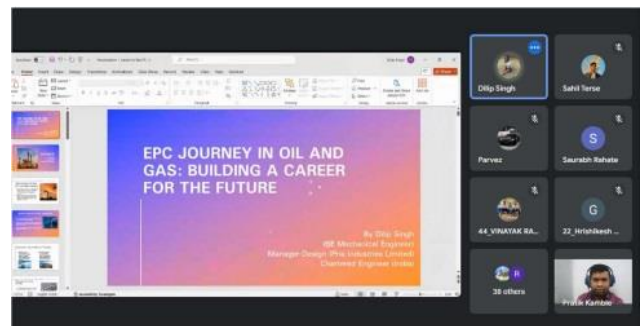
Award of certificate to the participants

A total of 24 students completed the course. The students were jointly certified by

Finolex Academy of Management & Technology and MechaTol Product Engineering Solutions Pvt. Ltd. Pune. The following aspects were covered - drawing, modelling, sheet metal and assembly modelling.

Online Webinar on Building Futures: Exploring EPC Industry Careers

Department of Mechanical Engineering is proud to announce its latest initiative, an online webinar titled "Building Futures: Exploring EPC Industry Careers." In collaboration with industry experts, this webinar aims to guide third and final year Mechanical engineering students in understanding the diverse career prospects within the Engineering, Procurement, and Construction (EPC) sector.



Mr. Dilip Singh (Expert, EPC Domain) delivering session

Webinar conducted on 13th January 2024, the webinar was conducted under the adept guidance of Dr. M.S. Kirkire, the Head of the Mechanical Engineering Department. An esteemed industry expert, Mr. Dilip Singh, Manager at Praj Industries, was invited as the resource person for this webinar. His wealth of experience in the EPC sector offered participants valuable real-world insights, enriching their understanding of the industry's demands and opportunities. Total 50 students from Mechanical Engineering department attended this Webinar

Programs Organized by department

Mechanical Department organized Guest Lecture on "Role of Financial Planning in Project Management"

The Department of Mechanical Engineering at FAMT organized a guest lecture on "Role of Financial Planning in Project Management" on the 26th, February 2024 for Mechanical Engineering Students.



Dr. Vijay Kakade interacting with students

The guest speakers for the lecture were Dr. Vijay Kakade, Professor in Jainology, Shivaji University, Kolhapur and Dr. Suvarna Suryawanshi, Associate Professor, N D Patil Night College, Sangli. The lecture aimed to shed light on the significance of financial planning within the realm of Project Management, emphasizing how Break Even Analysis intersects with areas such as Finance and Project Management etc.



Dr. Suvarna Suryawanshi interacting with students

Total 48 students were present for this session. Engaging discussions and questions were raised regarding real-world applications of financial planning principles in engineering projects. The program was successfully coordinated by Prof.(Dr.) S.S.Goilkar & Asst. Prof. P. A. Date, Mechanical Engineering Department under the guidance of Prof.(Dr.) M. S. Kirkire, Dean Student Affairs (Technical) and the Head of Mechanical Engineering Department.

Major Project Orientation

The major project orientation has been conducted for third-year mechanical engineering students. Prof. Gayatri M Kirkire explained the importance of BE project and guided the students on how to execute different stages of the project. Prof. V S Bagade and Prof. G M Kirkire conducted the program successfully.

The following points were discussed during the orientation.

- Planning and progress
- Presentation guidelines
- Evaluation guidelines
- Ethics to be followed
- Report writing guideline



Prof. G M Kirkire conducting the session

Programs Organized by department

Industrial Visit to Finolex Power Plant at Ranpar

The Department of Mechanical Engineering organized an industrial visit to Finolex Power Plant on 16th March 2024 and 30th March 2024 for the students of Third Year Mechanical Engineering. A total of 69 students, 2 faculty members and 1 staff member visited the plant.



Students along with faculty members at Finolex Power Plant

The power plant located at Ranpar is a coal-based thermal power plant. Students visited the coal storage area at the beginning and then proceeded along the flow of coal to the boilers. During this, students observed the working of coal crushers and conveyor belts moving the coal. During the visit to the boiler, the electrostatic precipitator, and fly-ash collection unit too were shown to the students. In the turbine hall, students observed the working of the turbine and generator unit. Students got glimpses of the state-of-the-art control system that continuously monitors the operation of the plant.

The visit was organized with the support and guidance of Dr. Kaushal Prasad, Principal, FAMT and Dr. Milind Kirkire, Head, Department of Mechanical Engineering. The entire visit was successfully coordinated by Prof. V S Bagade, Prof Shodhan Mayekar

and Dr. Kedar Bhide of the Department of Mechanical Engineering.

Industrial Visit to Gadre Marine Export Pvt Limited, Ratnagiri

On April 6, 2024, third-year Mechanical Engineering students embarked on an enlightening industrial visit to Gadre Marine Export Pvt. Ltd. situated in Ratnagiri.

Gadre Marine Export Pvt. Ltd. is a renowned entity in the marine industry, specializing in the processing and export of high-quality seafood products. Established in Ratnagiri, Maharashtra, the company has garnered a reputation for its technological advancements and adherence to international standards in seafood processing and refrigeration.



Students along with faculty members at Gadre Marine Export Pvt. Ltd.

The objective was to understand HVACR systems in marine applications and explore the technological advancements in refrigeration techniques. The visit was organized by Prof. Hemant V. Chavan from the Department of Mechanical Engineering, under the guidance of the Head, Dr. M. S. Kirkire.

Programs Organized by department

Industrial Visit to NOOMAN Ice and Cold Storage, Ratnagiri

On the 23rd of April 2024, the third-year Mechanical Engineering students visited Nooman Ice and Cold Storage, Ratnagiri. NOOMAN Ice and Cold Storage offers advanced industrial solutions for refrigeration and cold storage, making it a prime location for our students to learn.

Bagade and Prof. Hemant V. Chavan, from the Department of Mechanical Engineering, under the guidance of the Head of Department Dr. M. S. Kirkire. Lab Assistant Mr. V. V. Lohar and Mr. P. S. Korgaonkar also attended the visit.



Students with Mr. Rajesh (NOOMAN Ice and Cold Storage)

The main aim of the visit was to give students hands-on experience with HVACR systems used in industrial settings, specifically focusing on cold storage facilities. During the visit, students were anticipated to learn about refrigeration system design, operation, and upkeep, along with understanding their practical applications, such as ice making.



Students along with faculty members at NOOMAN Ice and Cold Storage

The visit was arranged by Prof. V. S.

Faculty Achievements

Dr. Milind S. Kirkire

- Completed One Week FDP on 'Condition-based Monitoring: Leveraging Technology for Smarter Industrial Maintenance.
- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Dr. Shashikant S. Goilkar

- Published a paper Design and Fabrication of Aqua Silencer with Monitoring Capabilities in the Indian Journal of Technical Education.
- Completed FDP on Sustainable Energy Spectrum: Exploring Trends and Applications in Renewable Resources.
- Completed FDP on Research Methodology: Ethics & Publications.
- Completed One week STTP on 'Condition-based Monitoring: Leveraging Technology for Smarter Industrial Maintenance'.
- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Prof. V. Muralimohan

- Completed One Week FDP on" GENERATIVE AI".

Prof. Vikram S. Chougule

- Completed FDP on UHV II
- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Prof. Sachin S. Mestry

- Completed 12 week NPTEL course on Machinery Fault Diagnosis And Signal Processing.

Prof. Vidyasheel S. Bagde

- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Prof. Gayatri M. Kirkire

- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Prof. Abhilasha S Jadhav

- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

Faculty Achievements

⚙️ **Prof. Sumit S. Malusare**

- Completed STTP on “Recent Trends in Mechanical Engineering and Industry 4.0”.

⚙️ **Prof. Amar S. Yekane**

- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

⚙️ **Prof. Mahadev L. Naik**

- Completed FDP on Research Methodology: Ethics & Publications.
- Published a paper Condition monitoring and Predictive Analysis of Electric Motor by using Machine Learning in International Journal of Advanced Research in Science, Communication and Technology
- Attended Two Days workshop on " NEP 2020 Sensitization- Train the trainers".

⚙️ **Prof. Prabodh B. Horambe**

- Completed FDP on Research Methodology: Ethics & Publications.

⚙️ **Prof. Priyanka A. Date**

- Completed One Week e-STC on Evolution Of CCHP And Thermal Polygeneration (ECTP-2024)
- Completed 21 Days Masterclass on Data Science - Update 2024