

ARMY INSTITUTE OF TECHNOLOGY

MECHANICAL ENGINEERING DEPARTMENT

NEWSLETTER- AY 2024-25 (SEM-II)



Prepared by- Dr Laxmikant Jathar

January 2025 to June 2025



VISION

Emerge as globally recognized provider of Mechanical Engineering education and solutions.

MISSION

- Provide an environment for developing intellectual, emotional, physical, and spiritual quotients that are essential to produce total quality engineers.
- Establish a platform that fosters a culture of creativity, research, innovation and life-long learning
- Become a centre of excellence that creates technology leaders and entrepreneurs committed towards sustainable development of society



Maj Gen Uday Shankar Sengupta (Retd)
Director, AIT



Col MK Prasad (Retd)
Jt Director, AIT



Dr B P Patil
Principal, AIT



Dr U V Awasarmol
HoD Mechanical

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MECHANICAL ENGINEERING DEPARTMENT: ACTIVITIES

January 2025 to June 2025

Guest Lecture on Steam Engineering by Forbes Marshall Team

A guest lecture on Steam Engineering was organized for the students of the Department of Mechanical Engineering on **17th January 2025**. The session was delivered by an expert team from **Forbes Marshall**, a leading company in steam engineering and energy conservation solutions. The lecture provided valuable insights into the fundamentals and industrial applications of steam engineering, covering aspects such as steam generation, distribution, utilization, and efficiency improvement techniques. Students also gained knowledge about the latest industry practices, sustainability measures, and real-world case studies from the Forbes Marshall team.



Session on "Art of Research Paper Writing" Conducted for SE Students

Dr. L. D. Jathar conducted a session on **"Art of Research Paper Writing: Tips, Tricks, and Best Practices"** for the Second-Year (SE) students on **21st January 2025**.

The session highlighted the essential steps of research paper writing, including topic selection, structuring the paper, ethical writing practices, citation management, and effective submission strategies. Dr. Jathar also shared practical tips and insights to help students enhance their academic writing skills and publish their research in reputed journals.

The interactive nature of the session enabled students to clarify doubts and gain confidence in initiating their own research work.



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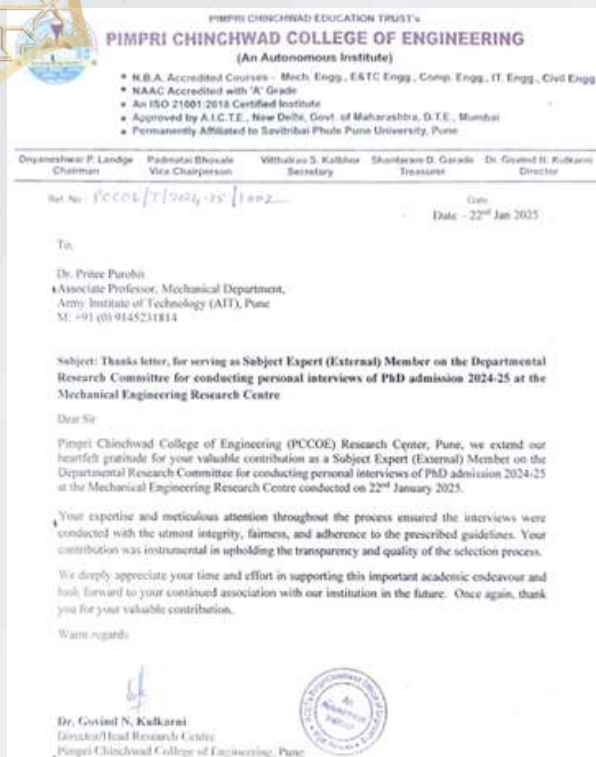
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Dr. Pritee Purohit Served as Subject Expert for PhD Admissions at PCCOE, Pune

Dr. Pritee Purohit was invited to serve as a Subject Expert (External Member) on the Departmental Research Committee (DRC) for conducting personal interviews of PhD Admission 2024-25 at Pimpri Chinchwad College of Engineering (PCCOE), Pune on **22nd January 2025**.

In this capacity, Dr. Pritee Purohit contributed her academic expertise and valuable insights during the evaluation process, ensuring a rigorous and transparent selection of research candidates. Her participation reflected professional recognition and reinforced academic collaboration between institutions.

Dr. J. D. Patil Participated in Workshop on Governance in Autonomy at MIT, Alandi

Dr. J. D. Patil participated in a one-day workshop on **"Governance in Autonomy: Challenges, Opportunities, and Transformational Strategies"** organized at MIT, Alandi on **22nd January 2025**.

The workshop focused on effective governance models, policy frameworks, and strategic approaches for autonomous institutions. It provided a platform for academic leaders and administrators to discuss challenges and opportunities in higher education autonomy while exploring innovative practices for institutional growth and transformation.



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Session on Outcome Based Education by Dr. V. M. Phalle



Dr. V. M. Phalle delivered an insightful session on **“Outcome Based Education (OBE)”** on **30th January 2025**.

The session focused on the principles and implementation of OBE, emphasizing the importance of defining clear learning outcomes, mapping them with teaching-learning processes, and aligning assessment methods to achieve academic excellence. Dr. Phalle also highlighted the role of OBE in enhancing student learning, improving program quality, and meeting accreditation requirements.

The interactive nature of the session provided faculty and students with practical insights into adopting OBE in academic practices. The Department expressed gratitude to Dr. Phalle for his valuable contribution towards strengthening the teaching-learning ecosystem.

SE Students and Faculty Attended Workshop on Intellectual Property Rights

Second-Year (SE) students of Mechanical Engineering, along with faculty members, attended a One-Day Workshop on **Intellectual Property Rights (IPR)** held on **11th February 2025**.

The workshop aimed to create awareness about the fundamentals of IPR, including patents, copyrights, trademarks, and design rights. Experts highlighted the importance of protecting innovations, the procedure for filing patents, and the role of IPR in fostering research and entrepreneurship.



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Prof. G. D. Bhasle Participated in Workshop at IIT Bombay



Prof. G. D. Bhasle participated in a two-day workshop on **"Application of Advanced Analytical Techniques in Research and Industry"** organized at IIT Bombay on **18th and 19th February 2025**.

The workshop focused on modern analytical tools and techniques applied in cutting-edge research and industrial problem-solving. Sessions included demonstrations of advanced characterization methods, case studies, and hands-on exposure to state-of-the-art equipment.

Dr. L. D. Jathar Honored with Best Research and Consultancy Award



On the occasion of the 31st AIT Foundation Day, **Dr. L. D. Jathar** was honored with the **Best Research and Consultancy Award**. The award was presented by Lieutenant General Dhiraj Seth, in recognition of Dr. Jathar's outstanding contributions to research, and innovation activities.

Mechanical Engineering Alumni Interact with Faculty during Alumni Meet



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Faculty Visit to SVR Robotics for Robotics Lab Development



On 4th March 2025, **Dr. U. V. Awasarmol, Dr. J. D. Patil, and Prof. P. V. Dorlikar** visited **SVR Robotics**, Katraj to explore and identify the mechanical hardware of robot configuration experiments.

The visit was aimed at planning and setting up a state-of-the-art Robotics Laboratory aligned with the upcoming Second-Year course in Automation and Robotics.

AIT Alumnus Rishi Bhatnagar Visits Mechanical Engineering Department

Mr. Rishi Bhatnagar, distinguished alumnus of the 1999 batch, Electronics & Telecommunication Engineering Department, and currently serving as **Assistant Vice President (AVP) at JPMorgan Chase**, visited the Mechanical Engineering Department of AIT. During his visit, Mr. Bhatnagar toured various laboratories and interacted with faculty members, gaining insights into the department's academic infrastructure and ongoing initiatives.



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Session on "Safety in Mechanical Engineering Laboratories" Conducted for Support Staff



Ms. Shital Haraliya conducted a session on "**Safety in Mechanical Engineering Laboratories**" for the support staff on **18th March 2025**.

The session emphasized the importance of adhering to safety protocols while handling laboratory equipment, preventive measures to avoid accidents, and best practices for maintaining a safe working environment. Practical demonstrations and guidelines were also shared to strengthen awareness among staff members.

Alumni-Led Career Building Sessions for Mechanical Engineering Students

A one-day series of sessions on **career building in Mechanical Engineering** was successfully conducted on **25th March 2025** for Second-Year (SE) and Third-Year (TE) students.

The sessions were delivered by distinguished alumni from the 2009 batch:

- **Ms. Ruchika Sharma, General Manager, Cummins India**
- **Mr. Nitish Rai, Founder & CEO, FreightFox**
- **Mr. Anil Kumar, Senior Manager, Praj Industries**



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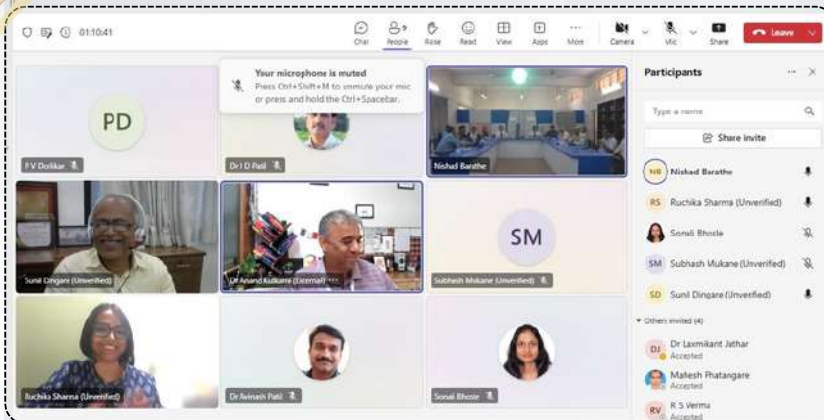
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January 2025 to June 2025

First Board of Studies (BoS) Meeting Conducted



The First **Board of Studies (BoS) Online Meeting** was successfully conducted on **26th March 2025**.

The meeting brought together academic experts, industry representatives, and faculty members to review and discuss curriculum development, course outcomes, and future strategies for enhancing the teaching-learning process.

Guest Lecture on “CFD Tool for Thermo-Fluid Analysis” at RSCOE, Pune

Dr. S. M. Gaikwad delivered a guest lecture on **“CFD Tool for Thermo-Fluid Analysis”** at Rajarshi Shahu College of Engineering (RSCOE), Pune on **4th April 2025**.

The lecture focused on the fundamentals and applications of Computational Fluid Dynamics (CFD) in solving thermo-fluid problems, highlighting simulation techniques, case studies, and industry-oriented applications.



Hands-on Session on Copyright Procedure

Dr. S. M. Gaikwad conducted a hands-on session on **“Copyright Procedure in India”** at AIT Pune on 9th April 2025.

The session provided participants with practical knowledge about the process of filing for copyright, legal considerations, and the significance of intellectual property rights in protecting creative and research work.



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Student Project Exhibition Organized by Mechanical Engineering Department



The Department of Mechanical Engineering organized a Student **Project Exhibition on 21st April 2025**. The exhibition showcased innovative projects designed and developed by students, reflecting their technical knowledge, creativity, and problem-solving skills.



Guest Lecture by Dr. S. M. Gaikwad at MAE Alandi

Dr. S. M. Gaikwad delivered a guest lecture on **"SIMPLE Algorithm and Lid-Driven Cavity Problem in CFD"** at MAE, Alandi, Pune on **29th April 2025**.

The lecture introduced participants to the fundamentals of the SIMPLE algorithm and its applications in Computational Fluid Dynamics (CFD), with a focus on solving the classic lid-driven cavity problem.



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Visit to GH Raisoni College of Engineering for FMS Lab

Dr. U. V. Awasarmol visited **GH Raisoni College of Engineering, Pune** on **7th May 2025** with the objective of observing the advanced capabilities of the Flexible Manufacturing Systems (FMS) Laboratory. The visit provided valuable insights into the lab's state-of-the-art facilities, automation processes, and integration of modern manufacturing technologies. The interaction with faculty and staff members at GH Raisoni further enriched knowledge sharing and opened avenues for adopting best practices in developing advanced laboratory infrastructure.



Guest Lecture by Dr. S. M. Gaikwad at MAE Alandi

On the occasion of International Yoga Day, Savitribai Phule Pune University (SPPU) organized a special yoga event for Palkhi participants at Tirupati Township, Bhairav Nagar, Dhanori, Pune.

As the Program Officer of NSS Unit ASF 141, **Dr. S. M. Gaikwad** conducted a **Yoga Session on 21st June 2025**, focusing on physical well-being, mental relaxation, and the importance of yoga in daily life.



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MECHANICAL ENGINEERING STUDENTS ACTIVITIES AND ACHIEVEMENTS

January 2025 to June 2025

Industrial Visit to Autocluster, Pune

Second-Year (SE) students of Mechanical Engineering, accompanied by **Dr. S. M. Gaikwad**, visited **Autocluster, Pune** on **23rd January 2025**.

The visit aimed to provide students with practical exposure to industrial practices, modern manufacturing technologies, and product development processes



Guest Lecture on Higher Education (YesVidya) for Mechanical Engineering Students

Second-Year (SE) and Third-Year (TE) students of Mechanical Engineering attended a guest lecture on Higher Education, organized in collaboration with YesVidya. The session focused on guiding students about opportunities for pursuing higher education in India and abroad, admission processes, preparation strategies, and career pathways. Experts from YesVidya shared valuable insights.



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Visit to Electronics Expo at Autocluster Center, Pune

First-Year (FE) and Second-Year (SE) students of Mechanical Engineering, accompanied by Prof. R. S. Godse, visited the Electronics Expo at Autocluster Center, Pune on 14th February 2025.

The visit provided students with exposure to the latest developments in electronics, automation, and interdisciplinary technologies relevant to mechanical systems



Mechanical Engineering Students Awarded Yantrakaushalya Scholarship

Students from the Department of Mechanical Engineering were honored with the prestigious Yantrakaushalya Scholarship, instituted in memory of Mr. Anant Vinayak Bhat. The awardees include:

- Sandeep Mondal (SE)
- Aman Kumar (SE)
- Aniket Patil (TE)
- Sushree Arpita Narendra (TE)
- Piyush Rai (BE)
- Pankaj Rai (BE)



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Students Honored with Manjeeri-Devinder Singh Scholarship

Students from the Department of Mechanical Engineering were honored with the prestigious Manjeeri-Devinder Singh Scholarship for their academic excellence and dedication.

The scholarship was awarded to:

- Ayush Kumar (SE)
- Akshay Kamble (TE)
- Belge Sainath (BE)



Ajay Thakur Awarded udChalo Scholarship

Ajay Thakur, a Second-Year student of Mechanical Engineering, was awarded the prestigious udChalo Scholarship in recognition of his outstanding academic achievements and all-round performance.

SE Mechanical Students Participated in Weapon Training at Gr. HQ NCC

Students of Second-Year Mechanical Engineering—Rahul Singh Shekhawat, Saurab Yadav, Payal Kharade, Prati Arya, and Shambhavi Singh—actively participated in weapon training conducted at the Group Headquarters, NCC on 7th March 2025.



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SE Mechanical Students Attended Disaster Management Training at NWA, Khadakwasla

Students of Second-Year Mechanical Engineering—Gaurav Kumar, Rakesh Ghosh, Ajay Thakur, and Shambhavi Singh—attended a specialized training program on Disaster Management at the National Water Academy (NWA), Khadakwasla, on 18th March 2025.



Team Radhe Radhe Secured 1st Runner-Up Position at FireAI Hackathon

Team Radhe Radhe, comprising Shivansh Mishra (TE Mechanical), Harsh Nayan (TE Computer), and Prabhat Mishra (TE Computer), secured the 1st Runner-Up position at the FireAI Hackathon, organized by the Kirloskar Institute of Management and sponsored by FireAI.



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Industrial Visit to Sidel Factory for TE Mechanical Students

Third-Year (TE) students of Mechanical Engineering visited the Sidel Factory on 18th March 2025 as part of their industrial exposure program.



Seminar on Quantum Tech: National Vision and Applications in Warfar

Second-Year Mechanical Engineering students, accompanied by Dr. L. D. Jathar and Prof. Gouri Bhasale, attended a seminar on "Quantum Tech: National Vision and Applications in Warfare" at RSAMI, Pune, on 26th March 2025. The seminar highlighted India's national vision for quantum technologies, their potential defense applications, and the transformative role they play in modern warfare



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SE Mechanical Student Participates in Strategy Sprint at IIT Kanpur

Ms. Sana Kamirkar, a Second-Year Mechanical Engineering student, actively participated in the Strategy Sprint during Techkriti 2025, the Annual Technical and Entrepreneurial Festival of IIT Kanpur.



Industrial Visit to Auto Cluster, Pune

The First-Year Mechanical Engineering students, accompanied by Dr. S. M. Gaikwad and Mr. Nishad Barathe, visited the Auto Cluster, Pune, on 30th April 2025.

The visit provided students with valuable insights into the latest industrial practices, manufacturing processes, and technological advancements, helping them bridge the gap between classroom learning and real-world applications.

