

M. E. Society's Wadia College of Engineering, Pune-01

(Accredited by NBA & NAAC with A++ Grade)

Mechanical Engineering Department Newsletter

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Editors

- Prof. H. S. Salave

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- Dr. V. J. Sonawane
- Dr. S. H. Gawande
- Dr. A. C. Mitra
- Prof. S. P. Gadewar
- Dr. A. R. Patil
- Prof. S. D. Wankhede
- Prof. S. S. Jadhav
- Dr. K. A. Mahajan
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- Prof. P. V. Bute
- Dr. V. P. Sakhare
- Prof. P. V. Aundhkar
- Prof. S. R. Dhavale
- Prof. A. A. Shaikh

From the HOD's Desk

During the **Second semester** of academic year **2024-25** various extracurricular activities were conducted successfully by the Mechanical Engineering Department like Paper Publication & Paper Presentation by faculty members and students in National / International journals.

The faculty member regularly contributes for publications of Textbooks and work on Research Projects by involving UG & PG students funded by BCUD, Savitribai Phule Pune University, DST New Delhi. Faculty Members publish their research papers in National and International Journals & Conferences regularly. Numbers of faculty members are working as resource person and keynote speaker for conferences and workshops.

Mechanical Engineering students regularly contributing by involving in various technical events like **MESA-PHOENIX, Designers Club, SAE India eBAJA and mBAJA** organized by SAE India which encourages them and staff members, which we want to continue in coming years also. Also various projects by final year students are as per present requirements of industries and Quality.

Dr. V. N. Raibhole

From the Editor's Desk.....

Greetings to faculty, students and friends!

It gives us an immense pleasure in bringing out this issue of our **Second Semester** Departmental Newsletter **[2024-25]**.

We hope this newsletter will provide a brief report of all activities conducted by the faculties and students of Mechanical Engineering Department during the Second Semester of academic year **2024-25**.

Prof. H. S. Salave

Department of Mechanical Engineering- Semester-II [2024-25]

Mechanical Engineering is the core branch of Engineering and Technology, which plays an important role in the industrial growth of the nation. The department has well equipped laboratories. Besides high-quality teaching, the practical knowledge of students is enhanced through Expert Lectures by eminent people from Industry, industrial visits, etc. The department has a team of dedicated faculty members, who strive hard to give their 100%. The department adopts flexible and innovative learning opportunities for students enabling them to enhance theoretical and professional skills. Numbers of faculty members are contributing to Textbooks Publications & working on research projects funded by BCUD, University of Pune and presented & published their research work in international conferences at USA, Singapore & China and in International Journals. The department has set ground zero between faculty & students which facilitates teaching learning process effectively. The department had been pioneering many essential activities which led to the development of the college. Final year students have presented and published technical papers based on their projects in national and International Journals.

Department Advisory Board:

Dr. V. N. Raibhole
Dr. V. N. Chougale
Dr. S. H. Gawande
Dr. A. C. Mitra
Dr. V. J. Sonawane

MESA/Astitva Coordinator:

Prof. H. S. Salave

M-BAJA/ E-BAJA coordinator:

Prof. S. R. Kandharkar

Academic Monitoring

Coordinator:

Prof. K. A. Mahajan

Exam Coordinator:

Prof. S. S. Jadhav

Guest Lecture/Industrial Visit Co-ordinator:

Dr. S. R. Kandharkar

Academic Research Co-ordinator

(ARC)/ PG Co-ordinator:

Dr. S. H. Gawande

NSS Coordinator:

Dr. B. D. Nandre

NBA/NAAC Coordinators:

Dr. A. C. Mitra
Prof. S. P. Gadewar

Extra-Curricular Co-ordinator:

Prof. H. S. Salave

Load Distribution and Timetable In-charge:

Prof. S. D. Wankhede

Training & Placement Coordinator:

Prof. V. S. Mane

3. Departmental Activities

3.1 SAE BAJA'2024-25 Competition

In E-BAJA 2024-25 season with ALL INDIA RANK 10. The team has also achieved AIR 6, 7, 8 and 9 in CAE, Acceleration, Maneuverability and in design respectively.



3.2 Industrial Visit

- Prof. H. S. Salave , Prof. S. P. Gadewar, Dr. K. A. Mahajan and Mr. M. S. Pomnar, organized Industrial visit with collaboration of MESA Team at Shri Sai Baba Sansthan Trust has world largest solar steam system, Shirdi Ahmednagar. for BE Mechanical students under the subject "Energy Engineering". Dated on 29 Jan. 2025.



- **Prof. H. S. Salave , Prof. S. P. Gadewar, Dr. K. A. Mahajan and Mr. M. S. Pomnar** organized an Industrial visit with the collaboration of MESA Team at Nashik Thermal

Power Plant, Eklahare Nashik. for BE Mechanical students under the subject “Energy Engineering”. Dated on 30 Jan 2025.



4. MESA & Astitva Activity

4.1 PHOENIX-2k24-25

The Mechanical Engineering Students Association (MESA) organized various technical events during 3rd-4th Feb.2025 such as Junkyard war GPT war etc. Registration and campaigning for the events started on the 24th Jan 2024. Entire MESA was in full gusto, trying their best to attract students to participate in all the events. As Phoenix-2K24-25 is an inter-college event, everyone is geared up to attract more students and establish themselves as excellent publicity and marketing organizers.

Coordinator: - Prof. H. S. Salave

- **Inauguration:** PHOENIX-2k24-25 is inaugurated on the first day of event 3rd Feb 2025 at 10:00 am in Department of Mechanical Engineering workshop by the auspicious hand of Dr. M.P. Dale (Principal) , Dr. V. N. Raibhole (HOD, Mechanical) Prof. Dr. D. S Adkar (HOD, FE) in the presence of, Dr. N. Z. Shaikh (HoD, Computer), Dr. P. P.Mane (HoD, E &TC), Dr. A. C. Mitra, Dr. Ajit. Sonawane and Prof. H. S. Salave (MESA, Faculty Advisor) and all the teaching and non-teaching staff.





- JUNKYARD WAR:-** The Junkyard War, a unique and creative competition organized by the MESA students of Wadia College of Engineering, was held on 3rd February 2025, from 12:00 PM to 3:00 PM in the college workshop.



- **GPT WAR** The GPT WAR event was conducted on 4th February 2025 at 12:00 PM in the 107 CAD/CAM Lab.



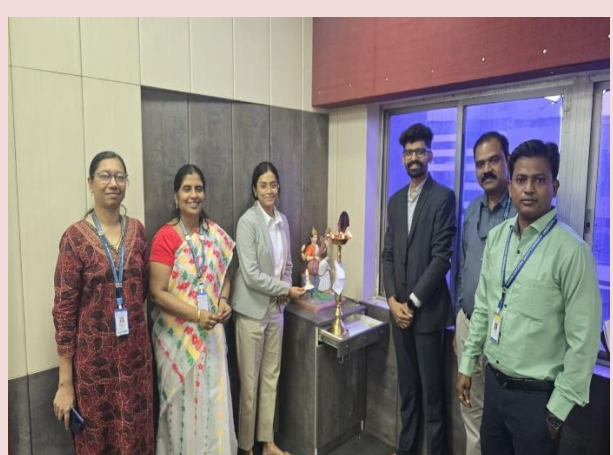
- **Prize Distribution Ceremony:** The conclusion of **PHOENIX-2k24-25** was scheduled on 4th Feb 2025 with distribution of prizes and certificates to winning and runner teams. More than 400 students from various colleges affiliated to Savitribai Phule Pune University participated.



4.2 Farewell Program-2025

The Mechanical Engineering Students Association (MESA) in collaboration with Team Astitva organized a heartfelt **Farewell Program** for the **outgoing B.E. Mechanical Engineering Batch of 2025** on **9th June 2025**.

The event was a memorable blend of emotions, gratitude, and celebration. Faculty members, staff, and students came together to bid a warm goodbye to the final-year students, cherishing their journey and contributions to the department. The program featured cultural performances, fun activities, heartfelt speeches, and a token of appreciation for the graduating students. The ambiance was filled with nostalgia as seniors shared their experiences and juniors expressed their best wishes for the future. The Department of Mechanical Engineering congratulates all graduating students and wishes them success and fulfillment in their professional and personal lives.





5 MESWCOE-IIC

5.1 INNOVATEXPO-2025

MESWCOE-IIC Team organized INNOVATEXPO for all Engineering students on 22 April 2025. Innovatexpo brought together budding student innovators under one roof to demonstrate their original ideas and technological solutions. The exhibition aimed to promote entrepreneurial thinking and interdisciplinary collaboration. Cordinator: Prof. S.R.Dhavale , Dr .V.N .raibhole.





6 Staff Achievements

- **Prof. H. S. Salave** participated in one week Faculty Development Programme (FDP) on “**Advances in Engineering and Technology**” organized by Department of Mechanical Engineering, VACOE, Ahilyanagar, from **10th February to 14th February 2025**.



- **Prof. H. S. Salave** Successfully participated & completed the “**NEP 2020 Orientation & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MMTTP) of University Grant Commission (UGC) organized by IISER, Pune from **18 Feb to 26 Feb 2025**.

CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that **Harshal Suresh Salave** from
Modern Education Society's Wadia College of Engineering, Punehas completed the
 Online NEP 2020 Orientation & Sensitization Programme under Malaviya Mission
 Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)
 Organised by IISER Pune from February 18, 2025 to February 26, 2025

Arnal Mukherjee

Prof. Arnab Mukherjee
 Dean, International
 Relations & Outreach
 IISER Pune

C. Harinath

Prof. Harinath Chakrapani
 MM-TTC Coordinator
 IISER Pune



Group Photo Staff Members and BE Mechanical- 2025 Batch

Vision of Department

To groom Motivated, Environmental friendly, Self-esteemed, Creative and Oriented Mechanical Engineers

Mission of Department:

To Develop Industry Oriented Manpower to accept the challenges of Globalization by,

- Imparting mechanical engineering knowledge through trained faculty in conducive environment,
- Creating awareness about the needs of mechanical industries through alumni and industry-institute interactions
- Encouraging them to think innovatively and introduce them to various research activities
- Supporting them to groom in all aspects like communication, interpersonal skills.

Program Educational Objectives:

The following Program Educational Objectives are established for Mechanical Engineering:

- I. To prepare students with strong foundation in mathematical, scientific and engineering fundamentals that will enable them to have successful career in Mechanical and Interdisciplinary Industries
- II. To prepare students for rapid technological change equipped with strong conceptual understanding of core and basic concepts of mechanical engineering
- III. To enable students to develop their knowledge and skills across the range of disciplines.
- IV. To prepare students for soft skills with good communication, ethical values and ability to work in a team
- V. To prepare students to strengthen their knowledge and skills through self-learning abilities throughout their professional career as well as to pursue higher education.

Mechanical Engineering Program Outcomes:

The Mechanical Engineering graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** 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.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
13. **PSO I:** Apply principles of machine design, manufacturing, thermal engineering and management to identify, formulate and solve real life problems in various fields of engineering
14. **PSO II:** Use modern modeling, simulation techniques and computational tools.
15. **PSO III:** Develop practical solutions for mechanical engineering problems/processes under professional and ethical constraints.