

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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Contents

1. From HOD's Desk.....	2
2. From Editor's Desk.....	2
3. Departmental Activities.....	4
3.1 SAE BAJA-2024-25 Competition	
3.2 Guest Lecture	
3.3 Industrial Visit	
3.4 Club Activity	
4. NSS Activity.....	11
5. Days Celebration.....	19
6. Staff Achievement.....	21

Patrons

- Dr. M. P. Dale (Principal)

Editors

- Prof. H. S. Salave

Name of Faculty

- Dr. V. N. Chougule (HoD)
- Dr. V. N. Raibhole
- 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
- Dr. R. N. Yerrawar
- Prof. H. S. Salave
- Dr. B. D. Nandre
- Prof. Sushant Jadhav
- Dr. S. R. Kandharkar
- Prof. V. S. Mane
- Prof. A. A. Chaugule
- Dr. D. R. Salunke
- 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 **First 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. Chougule

From the Editor's Desk.....

Greetings to faculty, students and friends!

It gives us an immense pleasure in bringing out this issue of our **First 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 First Semester of academic year **2024-25**.

Prof. H. S. Salave

Department of Mechanical Engineering- Semester-I [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. Chougule
Dr. V. N. Raibhole
Dr. S. H. Gawande
Dr. A. C. Mitra
Dr. V. J. Sonawane

MESA/Astitva Coordinator:

Prof. H. S. Salave

M-BAJA/ E-BAJA coordinator:

Dr. S. R. Kandharkar

Academic Monitoring

Coordinator:

Dr. 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. R. N. Yerrawar
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 Guest Lecture

- **Mr. Ashish G Kulkarni and his team**, 3DEXPERIENCE Edu Process Consultant Senior Manager Engineering/Project Manager, Dassault Systemes India Pvt Ltd., Hinjawadi, Pune delivered lecture on “Additive Manufacturing (Green Technology Approach) ” for all

mechanical and A& R engineering students dated on 21 Oct. 2024. Co-Ordinator: Dr. A. R. Patil and Prof. Sushant Jadhav



- **Dr. R. S. Jha, Head of Innovation Thermax Ltd. Pune** delivered lecture on “Boiler and other thermal technologies for green and sustainable future” for all mechanical engineering students dated on 7 Aug. 2024. Co-Ordinator: Dr. A. R. Patil and Prof. Sushant Jadhav



3.3 Industrial Visit

1. **Prof. H. S. Salave, Dr. V. N. Raibhole, Prof. S. P. Gadewar and Dr. K. A. Mahajan** have arranged industrial visit at Kirloskar Pneumatic, Industrial Estate, Hadapsar, Pune for BE mechanical students under Heating Ventilation Air Conditioning and Refrigeration subject dated on Friday 09/08/2024.





2. **Prof. H. S. Salave, Dr. V. N. Raibhole, Prof. S. P. Gadewar and Prof. S. D Wankhede** have arranged industrial visit at Air Conditioning Plant, Nexus Westend Mall, Pune for BE mechanical students under Heating Ventilation Air Conditioning and Refrigeration subject dated on Tuesday 15/10/2024.





- **Prof. V. S. Mane and Dr. V. P. Sakhare, Prof. P. V. Bute and Prof. A. A. Shaikh** organized Industrial visit at Indian Machine Tool Manufacturers' Association (IMTMA) Tech Center 12/5, D1 Block, MIDC Chinchwad, Pune 411019 for SE Mechanical students dated on 24 Oct. 2024





- **Dr. K. A. Mahajan, Prof. S. P. Gadewar, Prof. H. S. Salave Dr. S. R. Kandharkar,** organized Industrial visit at PARC Robotics systems Pvt. Ltd, Chakan Industrial Area, Nighoje, Khed, Pune – 410501 for TE Mechanical students dated on 19 Oct. 2024.



- **Dr. A. R Patil and Dr. P. M. Bagul** organized Industrial visit at Mercedes-Benz India Pvt. Ltd., Chakan, Pune under “MESWCOE Green Club” for all Engineering dated on 25 Nov. 2024.



3.4 Club Activities

GREEN CLUB in collaboration with NSS organized Table Plant Gift conducted activity called “Little Plants, Large Aspirations” on 16 August 2024. Coordinator:- Dr. A. R. Patl and NSS Team



4. NSS Activity

- **Tree Plantation:-** MESWCOE NSS Team organised Tree Plantation program on Wednesday, 21st August 2024.



- **Voting Awareness :-** MESWCOE NSS Team organised Voting Awareness event program on Wednesday, 19th November 2024.



- **Guest Session :-** MESWCOE NSS Team organised guest lecture program on “Yoga and Meditation”, dated Wednesday, 19th November 2024.



- **Constitution Day Celebration:** - MESWCOE NSS Team celebrates constitutional day on, dated 26th November 2024.



- **Fort Conservation Workshop :-** NSS unit of MESWCOE organized a visit to Vel Gad Fort as part of its social and environmental service activities.



- **Chitrarath Activity:** - MESWCOE NSS Team organised Chitrarath Activity on the occasion of Ganesh Visarjan procession in 2024, dated 17th September 2024.



NSS Day Celebration: MESWCOE NSS Team celebrates NSS day on, dated 24th September 2024.



- **Tree Distribution Drive:** - MESWCOE NSS Team organised Tree Distribution Drive on dated 16th Aug. 2024.



- **One Rakhi for Soldiers:-** MESWCOE NSS Team organised One Rakhi Program for Soldiers dated 16th Aug. 2024.



- **NSS orientation Day:-** MESWCOE NSS Team organised NSS orientation Day dated 14th Sept. 2024.



- **Anti-Tobacco and Drug Awareness Event:** - MESWCOE NSS Team organised Anti-Tobacco and Drug Awareness Event dated 14 Sept. 2024



- **Yoga Day Awareness Event:** - MESWCOE NSS Team organised Yoga Day Awareness Event dated 7 December. 2024.



- **My Vote My Future:-** MESWCOE NSS Team organised My Vote My Future Event 26th October 2024.



- **Poster Making Competition:** - MESWCOE NSS Team organised Poster Making Competition dated 28th October 2024.



Poster Making Competition: - MESWCOE NSS Team organised Poster Making Competition dated 28th October 2024

5. Days Celebration

- **Teacher Day Celebration:** - MESWCOE Students and NSS Team celebrates **Teacher Day** on, dated 5th Sept.2024. Coordinator: Dr. A. S. Sonawane



- **Independence Day Celebration:** - MESWCOE Students and NSS Team celebrates 78th Independence Day on, dated 15 Aug 2024. Coordinator: Dr. A. S. Sonawane





- **Mahatma Gandhi Jayanti Celebration:-** MESWCOE Students and NSS Team celebrates Mahatma Gandhi Jayanti , dated 2 Oct 2024.



- **Reading Day:-** MESWCOE Students and NSS Team celebrate Reading Day, dated 19th June 2024



6. Staff Achievements

7. **Prof. H. S. Salave** Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on, **"Sustainable Developments through Renewable Energy, SDGS and Smart Cities"**. at PVG'S College Of Engineering and Technology And G.K. Pate (Wani) Institute Of Management From 09 to 14 Dec. 2024.



- **Prof. H. S. Salave** Successfully participated & completed the “**NEP 2020 Orientation & Sensitization Programme**” (Programme Code: MMC-138-2024-DEC-B-02927) in online mode under Malaviya Mission Teacher Training Programme (MMTTP) of Ministry of Education, Government of India organized by Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce (MMTTC, SRCC) from December 19, 2024, to December 28, 2024.



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 the 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.