

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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Email: principal@mescoepune.org

Phone: 020-26163831

Website: www.mescoepune.org

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- Prof. H. S. Salave

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- Dr. V. J. Sonawane
- Dr. S. H. Gawande
- Dr. A. C. Mitra
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- Prof. V. S. Mane
- Prof. A. A. Chaugule
- Prof. D. R. Salunke
- Prof. P. V. Bute
- Dr. V. P. Sakhare
- Prof. P. V. Aundhkar
- Prof. S. R. Dhavale

From the HOD's Desk

During the **Second semester** of academic year **2023-24**, 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 **Second Semester** Departmental Newsletter **[2023-24]**.

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 **2023-24**.

Prof. H. S. Salave

Department of Mechanical Engineering- Semester-II [2023-24]

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. S. H. Gawande
Dr. A. C. Mitra
Dr. V. J. Sonawane

MESA Coordinator:

Prof. H. S. Salave

M-BAJA/ E-BAJA coordinator:

Prof. S. R. Kandharkar
Prof. V. S. Mane

Academic Monitoring Coordinator:

Prof. K. A. Mahajan

Exam Coordinator:

Prof. S. S. Jadhav

Guest Lecture/Industrial Visit Co-ordinator:

Prof. B. R. Pujari
Prof. 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'2023 Competition

In **M-BAJA 2023** season with **ALL INDIA RANK 03** in overall performance and all india rank 3 in durability as well as endurance race.



3.2 Industrial Visit

- **Prof. H. S. Salave , Prof. S. P. Gadewar and Dr. K. A. Mahajan**, organized Industrial visit with collaboration of MESA Team at Nashik Thermal Power Plant, Eklahare Nashik. for BE Mechanical students under the subject “Energy Engineering”. Dated on 22th Feb. 2024





- **Prof. H. S. Salave , Prof. S. P. Gadewar and Dr. K. A. Mahajan**, organized Industrial visit with collaboration of MESA Team at Shri Sai Baba Sansthan Trust has world largest solar steam system, Shirdi Ahamadnagar. for BE Mechanical students under the subject “Energy Engineering”. Dated on 21th Feb. 2024.





- **Prof. V. S, Mane and Tronix Team** members organized Industrial visit at K- Plast Industries, Shikrapur MIDC Pune, for SE Mechanical and Robotics and Automation students under the “TRONIX Club”. Dated 01 April 2024



4. ASME Chapter

- **Kaun Banega Crorepati Season 2:** ASME Student chapter organized Kaun Banega Crorepati Season-2 on 19 January 2024.



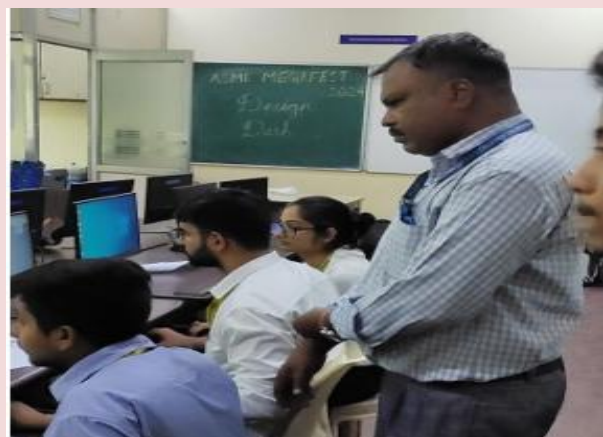
- **Guest Session:** ASME Student Chapter MESWCOE team organized a Guest session on Automotive System and Functional Safety on 23 Feb. 2024.



- **IPL MEGA AUCTION:-** ASME Student Chapter MESWCOE team organized thrilling event the IPL Mega Auction at ASME MEGAFEST on 24 April 2024.



- **Design Dash:-** ASME Student Chapter MESWCOE team organized thrilling event Design Dash on 24 April 2024.



- **Debate Competition:-** ASME Student Chapter MESWCOE team organized Debate Competition on 23 April 2024.



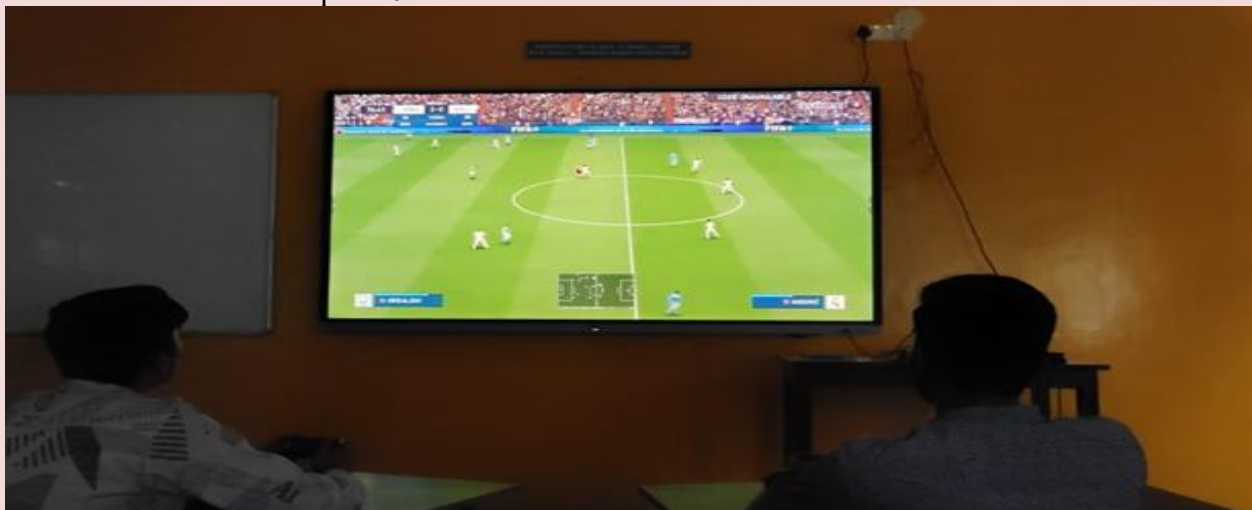
- **Lathe War:** ASME Student Chapter MESWCOE team organized Lathe War on 24 April 2024.



- **Popsicle Stick Bridge:-** ASME Student Chapter MESWCOE team organized Popsicle Stick Bridge on 24 April 2024.



- **FIFA Tournament:-** ASME Student Chapter MESWCOE team organized FIFA Tournament on 24 April 2024.



- **CAMPUS CRUSADE:-** ASME Student Chapter MESWCOE team organized CAMPUS CRUSAD on 25 April 2024.



5. NSS Activity

- **Special Winter Camp 2024**

NSS Special Camp was organized to Samparc Bala Asha Ghar, Nandgaon, Tal. Mulshi from **12th February to 18th February 2024** in association with Modern Education Society's Wadia College of Engineering. Total 25 students participated to Special Camp along with NSS Program Officer Prof. S. B. Shinde, Prof. Sonali Walunj, Sport Director Mr. Hariram Sapnar and Librarian Dr. Ajit Sonawane

Day 1: Monday/ 12th Feb 2024 All students gathered at college at 8 am for the inauguration of the NSS Camp journey. Dr. Ajit Sonawane officiated the inauguration, and the group set off for Nandgaon around 9 am.



Day 2: Tuesday/ 13th Feb 2024 All volunteer wakeup at 5.30 AM, Morning yoga session and excises was conducted and then Cleanliness drive ofKorigad fort, starting at 6:30 AM.



Day 3: Wednesday/ 14th Feb 2024 On the third day, our morning commenced with a refreshing exercise and yoga session, fostering physical and mental well-being among the volunteers. Following the exercises, all volunteers had breakfast and ensuring that every room and corner of the campus remained spick and span.



Day 4: Thursday/ 15th Feb 2024 Day four began with a dynamic warm-up and exercise session led by the enthusiastic NSS volunteers. Following breakfast, the entire group made their way to Zilla Parishad Prathamik Kendre School, Ambavne, upon arrival, the volunteers were divided into groups and assigned to different classes, ranging from 1st standard to 7th standard.



Day 5: Friday/ 16th Feb 2024 The day commenced with an invigorating session of jogging and morning exercises, setting the tone for an active day ahead. Following this, the volunteers engaged in an outdoor sport called “10 Passes”, fostering teamwork and physical activity. After returning, the group had breakfast together before diving into the task of digging pits for waste management.



Day 6: Saturday/ 17th Feb 2024 the cultural program was arranged for the people of village and children of samparc bal asha ghar. The program featured various performances, including dance, singing, Powada, and a street play, showcasing the talents and creativity of all involved.



Day7: Sunday/ 18th Feb 2024 the final day of the special camp, the morning commenced with the usual activities of exercise and yoga, promoting physical and mental well-being among the participants. The valedictory function commenced at 1 PM marking the conclusion of the camp's activities.



6. Internship/Mini-Project Activity

Sr. No.	Student Name	Name of Company / Mini Project
1	JADHAVAR VISHAL BALASAHEB	512 Army Base Workshop, Khirkee, Pune
2	AYUSH ANIL RAMTEKKAR	512 Army Base Workshop, Khirkee, Pune
3	KOLI RITESH RAVINDRA	Mini Project Group 4
4	MANJARE PRANAV POPAT	Mini Project Group 4
5	WAGHMARE SONALI RAJENDRA	Mini Project Group 4
6	ABHIJEET PRAKASH KHADKE	512 Army Base Workshop, Khirkee, Pune
7	KALASE VAISHNAVI VIJAY	Castomach Global pvt ltd, Chakan, Pune
8	DEVANPELLI ROHIT MILIND	HOME Engg., Pvt Ltd, Nanapeth, Pune
9	MANDAVKAR PRATHMESH DEEPAK	Inspired E Mobility Solutions, Pimpri, Pune
10	DANEKAR PRAJWAL SANJAY	Mini Project Group 8
11	BHINGOLE PRITAM GANGADHAR	Mini Project Group 8
12	SHINDE LALIT VISHNU	Mini Project Group 8
13	KULKARNI VIPUL VIKAS	Shri Sadguru Krupa Engg., Katraj, Pune
14	DHARANKAR VAIBHAV GANESH	512 Army Base Workshop, Khirkee, Pune
15	PANDEY ANSH VINAYKUMAR	512 Army Base Workshop, Khirkee, Pune
16	DEVESH BHANDARI	Foster Engg, Pimpri-Chinchwad, Pune
17	DUMPETI SHREESH GANESH	Mini Project Group 12
18	KHILARE RISHIKESH KRISHNA	Mini Project Group 12
19	PANDEY ISHAAN PANKAJ	Mini Project Group 12
20	DAREKAR VEDANT ASHOK	Mini Project Group 13
21	ACHARYA ROHIT SADANAND	Mini Project Group 13
22	OJAS SHAILESH DIXIT	512 Army Base Workshop, Khirkee, Pune
23	KHOT SHREYAS JAYESH	512 Army Base Workshop, Khirkee, Pune
24	GAIKWAD DARSHAN RAVINDRA	Mini Project Group 3
25	PATIL PRATIK SUNIL	Mini Project Group 3
26	SUTAR OMKAR TANAJI	Mini Project Group 3
27	MAHAJAN VIVEK SHARAD	Mini Project Group 3
28	KAMBLE ANIKET HARI	512 Army Base Workshop, Khirkee, Pune
29	KANAWADE CHAITANYA RAMDAS	512 Army Base Workshop, Khirkee, Pune
30	ADSUL ANIRUDHA RAJENDRA	Mini Project Group 5
31	GOGRI SHUBHAM LAXMICHAND	Mini Project Group 5
32	SHREEYASH SURESH ABNAVE	Mini Project Group 5
33	KULKARNI OM MAHESH	Mini Project Group 5

7. Training & Placement Activity

Following BE Mechanical Students are selected in Campus interview with different companies in AY 2023-24 (SEM- I & II)

Sr. No.	Name	Company Name
1	Lagade Pavan	Thermax Limited
2	Burande Siddhant	Thermax Limited
3	Madke Sahil	Thermax Limited
4	Chavan Rohan	Thermax Limited
5	Mitkari Pankaj	Thermax Limited
6	Jawlekar Malhar	Thermax Limited
7	Ghadge Abhishek	Thermax Limited
8	Magar Hanumant	Thermax Limited
9	Parsewar Prabhas	Thermax Limited
10	Bhate Kapil	Thermax Limited
11	Tate Pranav	Thermax Limited
12	Roy Pavel	Thermax Limited
13	Shelar Pratik	Thermax Limited
14	Sonawane Anish	Thermax Limited
15	Sharma Anand	Thermax Limited
16	Damodar Prasanna	Thermax Limited
17	Gaikwad Pritam	Radiant heat Exchanger
18	JADHAV ATHARV	Radiant heat Exchanger
19	SATVIK BHARDWAJ	GVPL Technologies
20	Chitte Yash	Automotive Test System
21	DEVKATE ABHIJIT	SKF
22	BORSE JAYESH	Aeron System pvt ltd
23	Ghadage Ajinkya	Bomag India Pvt Ltd
24	Shendge Tanish	Bomag India Pvt Ltd
25	Sail Pratyush	Bomag India Pvt Ltd
26	Korde Shree	BRITANNIA INDUSTRIES LIMITED
27	RIDDHESH BHAMRE	BRITANNIA INDUSTRIES LIMITED
28	KALASKAR ATHARVA	Intervalve Poonawalla pvt ltd
29	MORAES AARON	GVPL Technologies
30	Lagade Vishal	Potain India Pvt Ltd
31	Solaskar Rohit	Potain India Pvt Ltd
32	KADAM ATHARVA	Potain India Pvt Ltd
33	Jadhav Rutuja	Shivamtech Pvt Ltd
34	More Pratapsinh	Eidiko
35	SAWANT ABHIJIT	ELO-Matic Indid Pvt LTD
36	Lohar Niranjana	Sam HVACR Services

37	Pawar Rushikesh	HYT Innovative Projects PVT.LTD
38	Sawant Harsh	Higher Studies Master Imperial University london
39	VINIT LULLA	Self Startup
40	Suryawanshi Jatin	Higher studies ME SPPU Pune
41	kapile Aditya	Higher Studies Master Nottingham trent University
42	Keswad Pratik	TE Conectivity
43	Thorat Tejas	Integrity Inc ka LucisIT Pvt Ltd
44	LOHAR PRATHAMESH	Self Startup
45	Bobade Vaibhav	TEDRA
46	Sherkhane Akash	3D Concept Analysis & Development (India) Pvt Ltd.
47	Jadhav Sanket	TETRA PAK INDIA PVT.LTD. CHAKAN
48	Birajdar Pratamesh	Amphenol Interconnect India Pvt. Ltd
49	Adarsh Lad	AGUATECH ENGINEERS PVT.LTD. PUNE
50	YASH HANDE	Higher Studies MS Technische Hochschule Ingolstadt
51	Sehran Altaf	Binani Technologies
52	PRAJWAL PATIL	Bharat Forge
53	Hrshikesh Shingade	Profive engineering Pvt Limited
54	Onkar Dhanawade	Bhairavnath Enterproses
55	Charul Patil	eamp Engineering Solutions Private Limited
56	Sanskarsingh Rajput	Self Startup Precimech Enterprises

8. Staff Achievements

- **Prof. H. S. Salave** attended One week National Level faculty Development Program on “**Recent Trends in Heating, Ventilation, Air Conditioning and Refrigeration**” organized by Department of Mechanical Engineering in association with ISHRAE & ASHRAE Pune chapter at MMCOE karvenagar, Pune during 26th to 30th Dec. 2023
- **Dr. A. R. Patil** and other team members registered patent on “Control Environment Chamber For Battery Pack Testing dated 23/03/2024.



9. Student Achievements

- **Mr. Atharve Barde, Mr. Kapil Bhate and Mr. Yash hande**, Mechanical students are participated and won First Price in National level Techfest-2024 organized by Sinhgad College of Engineering Pune



- **Mr. Atharve Barde, Mr. Kapil Bhate and Mr. Yash hande**, Mechanical students are participated and won Second Price in National level Technical Event **Technophilia-2024** organized by Bharati Vidyapeeth College of Engineering for women, Pune43



- **Mr. Tanish Shendge, Mr. Pratik Shelar, Mr. Pranav Shelar and Mr. Sobit Kaskar** Mechanical engineering students are participated and received second prize in **DIPEX-2024** State Level Exhibition cum Competition of Working Models held during 7th to 10th March 2024 at Terna Engineering College, Navi Mumbai, Maharashtra



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.