



Gokhale Education Society's

**R . H. SAPAT COLLEGE OF ENGINEERING,
MANAGEMENT STUDIES AND RESEARCH,
NASHIK-422005**



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DEPARTMENT OF MECHANICAL ENGINEERING



E-News letter

2025-26

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SEM-I
July-Dec.
2025

Prepared & Compiled by,
Mr. Kiran S. Phad
Assistant Professor,
Department of Mechanical Engineering

Principal Message

I am delighted to pen a few words for the Department of Mechanical Engineering's Newsletter.

This initiative is a commendable effort to document and share the activities, achievements, and progress of one of the most dynamic departments of our institute. The Department of Mechanical Engineering, since its inception in 2009 under the umbrella of Gokhale Education Society's R. H. Sapat College of Engineering, Management Studies and Research, has consistently strived to uphold the legacy of the Society in providing quality, value-based education. With well-equipped laboratories, dedicated faculty, and a focus on both academic rigor and holistic development, the department has established itself as a hub of learning and innovation.

Our students have brought laurels through their participation in national-level competitions, technical projects, and research initiatives. The department's emphasis on industry interaction, expert lectures, and workshops ensures that students are equipped with the skills and values required to excel in their careers while contributing meaningfully to society.

I appreciate the efforts of the faculty and students in putting together this newsletter. It not only serves as a record of activities but also as a source of inspiration and motivation for the entire academic community.



Dr. Shirish S. Sane
Principal
M. Tech (CSE, IITB), Ph. D (Computer, COEP, Pune)

Head of the Department Message

It gives me great pleasure to present the first issue of our Department of Mechanical Engineering Newsletter. This quarterly publication is a step towards bringing together the highlights of our academic, co-curricular, and research activities, and sharing the collective achievements of our students and faculty with a wider audience.

Since its establishment in 2009-10, the Department of Mechanical Engineering has been committed to academic excellence, holistic student development, and meaningful industry interaction. With a sanctioned intake of 120 undergraduate and 12 postgraduate students in Mechanical Design Engineering, supported by a team of dedicated faculty members, the department continues to nurture talent with strong fundamentals, practical skills, and a sense of responsibility towards society and the environment.

Our laboratories are well equipped for advanced teaching, research, and development activities. Our students actively engage in national-level competitions, participate in industrial visits, workshops, and expert lectures, and contribute to extension activities that shape them into well-rounded professionals. Many of our graduates have been successfully placed in reputed companies, a testimony to the consistent efforts of our faculty and the determination of our students.

This newsletter is not just a record of events and achievements, but also a reflection of the energy, innovation, and enthusiasm that define our department. I hope it will serve as a platform to inspire our students, connect with alumni, and strengthen the bond between academia and industry.

I look forward to the continued success of our department and to many more milestones in the future.



Dr. Prashant Nehe
M.Tech (TFE), IIT Bombay, PhD,
IIT Bombay



Department Vision Mission

Department Vision

To impart quality education in mechanical Engineering and Develop students to be self-employed and to work in the industry and society.

Department Mission

M1: To impart analytical and conceptual skills through adequate exposure to theory and Practice.

M2: To impart basic and contemporary science, Engineering and research skills for identifying problems and to be able to develop practical solutions to them.

M3: To inculcate social and professional ethical responsibility through value embedded technical knowledge.

PSO's and PEO'S

Program Specific Outcome (PSO's) (UG):

PSO 1 : Mechanical Engineering Graduates will be able to work in the industries with thorough knowledge in the field of thermal, design and manufacturing processes.

PSO 2 : Mechanical Engineering graduate must be able to demonstrate the ability to identify formulate and solve a mechanical Engineering problem using research-based knowledge and research methods.

PSO 3 : Mechanical Engineering Graduate will be able to apply value embedded technical knowledge to assess social and professional ethical responsibility.

Program Educational Objectives (PEO'S):

PEO1: To prepare students for professional careers with strong fundamental knowledge in diversified areas such as Design, Thermal and Manufacturing Engineering to enable them analyze Mechanical Engineering related problems.

PEO2: To cultivate students proficiency in acquiring specialized technical expertise in mechanical engineering, emphasizing solutions to industry-relevant challenges across diverse domains.

PEO3: To establish a robust foundation in academics, leadership capabilities, and a commitment to lifelong learning, enabling a successful professional career and pursuit of advanced studies in mechanical and interdisciplinary fields.



July 2025

2025-26

Expert Lectures / Webinar / Seminar Conducted

Exploring Mahindra Pride: Opportunities and Soft Skills for Aspiring Engineer

A guest lecture on the topic “Mahindra Pride” was organized on 07 July 2025 (Monday) from 11:00 a.m. to 12:00 p.m. by the Department of Mechanical Engineering for final-year engineering students.

The lecture aimed to provide insights into the opportunities available for fresher mechanical engineering students in the manufacturing sector as well as through the Mahindra Pride initiative.

The guest speaker was Ms. Bimal Saxena, who explained in detail the significance of Mahindra Pride. She also highlighted the importance of soft skills and their essential role in the industry.

The session was conducted at the Mechanical Engineering Department Seminar Hall.



Orientation Program: “Know Your Department” for Second-Year Mechanical

A guest lecture on the topic “Know Your Department” was organized as part of the orientation program for second-year students on 14 July 2025 at 10:00 a.m., marking the beginning of the new academic year. The lecture aimed to familiarize students with the Mechanical Engineering Department, departmental laboratories and department activities.

The session began with a welcome address by Mr. C.K. Bhosale, Assistant Professor, Department of Mechanical Engineering. The day started with an introduction to various functionaries of the institute such as the Library and Training & Placement Office (TPO), followed by presentations from the respective faculty members about their departments.

The highlight of the program was “Know Your Department”, where the department coordinated an expert lecture delivered by Dr. P.B.Nehe, Head of the Department, Department of Mechanical Engineering. He provided valuable insights into the technological aspects and emerging opportunities in the domain of Mechanical Engineering. The objective was to motivate and build enthusiasm among the fresh students for innovation during the upcoming three years of their graduation.



July 2025

2025-26

Expert Lectures / Webinar / Seminar Conducted

Exploring Global Education: Guest Session by ASAC on Study Abroad

A guest lecture on the topic “Study Abroad” was conducted by the Department of Mechanical Engineering on Wednesday, 16 July 2025, from 11:00 a.m. to 1:00 p.m. at the Mechanical Engineering Seminar Hall. The session was attended by SE, TE, and BE Mechanical Engineering students.

The resource person for this lecture was Mr. Amit Gore, Founder of Akshay Study Abroad Consultants (ASAC), a reputed Nashik-based consultancy with 23 years of experience in the field of overseas education.

The lecture aimed to highlight the importance of pursuing higher education abroad for mechanical engineering students. Mr. Gore explained the role of ASAC in guiding students through the application process, including training for standardized tests required by foreign universities.

During the session, detailed information was provided about the following exams: GRE, SAT, TOEFL, IELTS, PTE, and DET.

The program successfully created awareness among students about study abroad opportunities and the preparation required to achieve them.



Industry Insights on Category Management for Mechanical Engineering Students Activity

The Department of Mechanical Engineering organized an Expert Talk on Category Management for SE, TE, and BE students as part of the Expert Talk Series conducted by I-Cube Cell and MESA.

The session was conducted on Saturday, 19 July 2025, from 11:00 a.m. to 1:00 p.m. at the Mechanical Engineering Seminar Hall. The resource person for this session was Mr. Sameer Dhole, Founder of Epiroc Mining Ltd.

The objective of the session was to bridge the gap between academic knowledge and real-world applications in the domains of supply chain, procurement, and operations. Mr. Dhole provided a practical understanding of Category Management, its strategic importance in industry, and its relevance to students with an engineering background.

The talk also encouraged students to explore unconventional yet high-growth career paths beyond traditional engineering roles, equipping them with knowledge and insights to thrive in dynamic, cross-functional environments.



July 2025

2025-26

Expert Lectures / Webinar / Seminar Conducted

Workshop on CNC Simulation and Programming using Macro CNC Simulator

An online workshop was successfully conducted on 22 July 2025 for Second-Year Mechanical Engineering students, focusing on the demonstration of the Macro CNC Simulator. The session was delivered by Mr. Shriram R, Senior Business Executive at Cad Macro Design and Solutions Pvt. Ltd., Chennai.

The workshop provided an insightful overview of the CNC Simulator, an educational software tool designed to train students, CNC operators, faculty, and researchers in a PC-based virtual machining environment. The simulator supports virtual CNC Milling and Turning operations and is compatible with various controllers such as FANUC, HEIDENHAIN, SIEMENS, FAGOR, HAAS, and MITSUBISHI. The session proved to be highly beneficial in enhancing students' understanding of CNC operations and programming. By simulating real-world machining scenarios, the Macro CNC Simulator offers a safe and cost-effective training platform that effectively bridges the gap between theoretical knowledge and practical skills in CNC technology.

Expert Session on Advanced Process Modelling Techniques in aluminum and steel Manufacturing

An expert talk on "Process Modelling in Steel and Aluminum Manufacturing" was organized by the Department of Mechanical Engineering on Saturday, 27 July 2025, from 11:00 a.m. to 12:00 p.m. at the Mechanical Engineering Seminar Hall. The session was conducted for S.E. and T.E. Mechanical Engineering students and delivered by Mr. Tushar Thorat.

The talk proved to be a highly enriching and insightful experience, and it was well appreciated by both students and faculty members.

Mr. Thorat began by explaining the fundamentals of process modelling, emphasizing its vital role in achieving consistency, efficiency, and innovation in modern manufacturing. He highlighted the transition from traditional trial-and-error methods to data-driven and simulation-based approaches, which enable industries to save time, reduce costs, and improve product quality.

He also introduced students to specific modelling techniques used in steel and aluminum production, such as flow simulation, thermal modelling, and solidification analysis. These techniques, he explained, help engineers understand and optimize processes including casting, rolling, extrusion, and heat treatment.



July 2025

2025-26

Expert Lectures / Webinar / Seminar Conducted

Exploring Careers in Japan: Opportunities and Relocation Insights

An expert talk on “Job Opportunities in Japan” was organized by the Department of Mechanical Engineering on Monday, 28 July 2025, from 2:00 p.m. to 3:00 p.m. for B.E. Mechanical Engineering students.

The session highlighted the growing demand for skilled professionals in Japan, particularly in sectors such as IT, engineering, finance, healthcare, education, and manufacturing. It was noted that many multinational companies offer visa sponsorship and relocation assistance, making Japan an attractive destination for career growth.

Students were introduced to key resources for exploring job opportunities abroad, including Japan Dev, GaijinPot Jobs, Naukri.com, and Glassdoor, which list employers offering relocation support. Additionally, the JET Programme was discussed as an excellent entry point for English teaching roles in Japan.

The talk also emphasized that Japan’s appeal extends beyond its job market, with its unique cultural heritage, modern infrastructure, and world-class public transportation in cities such as Tokyo, Osaka, and Yokohama.



Bridging Academics and Industry: Training & Placement Orientation 2025

A Training and Placement Orientation Session was organized by the Training and Placement Cell on Tuesday, 29 July 2025, from 11:00 a.m. to 12:00 p.m. in the classroom for B.E. students.

The session was conducted by Mr. Dhanraj Deshpande, Training and Placement Officer (TPO), who explained the functions of the T&P Cell, its role in supporting students, and how it serves as a link between students, alumni, and employers.

Mr. Deshpande provided detailed information on the various career paths available after graduation and guided students in clarifying their academic and professional goals. He also explained the stages of the recruitment process, including aptitude tests, resume building, group discussions, and personal interviews, along with preparation strategies for each stage.

The importance of soft skills, communication, presentation skills, and confidence building was strongly emphasized, as these are crucial for industrial success and employability.

In addition, students were informed about upcoming placement drives, job fairs, industry internships, and guest lectures by industry experts. The TPO also motivated students to actively participate in pre-placement training, workshops, and seminars to enhance their readiness for future opportunities.



July 2025

2025-26

Expert Lectures / Webinar / Seminar Conducted

Seminar on Defence R&D Careers: DRDO as a Career Destination

The Department of Mechanical Engineering organized a seminar on “Career Guidance and Career Opportunities in DRDO” on Thursday, 31 July 2025, from 3:30 p.m. to 4:30 p.m. for all Mechanical Engineering students.

The resource person for the seminar was Dr. Kashinath Deodhar, Retd. Director, Armament Research & Development Establishment (ARDE), Defence Research & Development Organisation (DRDO).

DRDO is the R&D wing of the Ministry of Defence, Government of India, with the vision of empowering the nation with cutting-edge defence technologies and the mission to achieve self-reliance in critical defence systems while equipping the armed forces with state-of-the-art weapons and equipment.

Dr. Deodhar highlighted DRDO’s remarkable contributions, including the Agni and Prithvi missile series, the Light Combat Aircraft Tejas, the Pinaka multi-barrel rocket launcher, the Akash air defence system, and a wide range of radars and electronic warfare systems.



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Expert Talk on the Role of Mechanical Engineers in MAHAGENCO

The Department of Mechanical Engineering organized an Expert Talk on “Mechanical Engineers’ Role in MAHAGENCO” on Saturday, 19th July 2025, from 10:30 AM to 12:15 PM in the Mechanical Engineering Department Seminar Hall.

Mr. Sameer Dohale, Global Category Manager, Epiroc Mining India Ltd., delivered valuable insights during the session.

In MAHAGENCO, a Mechanical Engineer plays a crucial role in the maintenance, repair, and efficient operation of power plant machinery and components to ensure uninterrupted plant output. Key responsibilities include:

- Planning and executing maintenance activities.
- Performing failure analysis to prevent recurrence.
- Coordinating with other departments for smooth plant operations.

Applying technical expertise in piping design, layout development, and adherence to international codes.

Mechanical engineers also contribute to research, design, development, testing, and maintenance of mechanical and thermal sensors, tools, engines, and machines.

The expert further explained that a successful mechanical engineer requires both technical and soft skills, including:

This expert session motivated students to understand the career opportunities and skill requirements for mechanical engineers in the power sector.



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July 2025

2025-26

Students Achievement

- Girl students from Mechanical Department have participated in Mahindra Pride Classroom program on 9th July to 16th July 2025.

Four students from Mechanical Engineering Department - Vedant Nikam, Bhagesh Pahare, Yash Bendre, Tanmay Wani got the scholarship from Hindustan Hardy Limited on 6th August 2025 in terms of Tuition Fees under CSR initiative.

Faculty Achievement

- A Memorandum of Understanding (MOU) is made between Mizuho India Japan Study Centre, Indian Institute of Management, Bangalore, and Gokhale Education Society & R. H. Sapat College of Engineering, Management Studies & Research, Nashik. Under this MOU Advanced Lean Manufacturing Processes (LMP) – Foundation Course was successfully completed by Mr. R.A.Tarle and Mr. R.S.Pawar in July 2025.
- Mr. R. S. Pawar and Mr. R. A. Tarle successfully completed Foundation of Lean Manufacturing Course from, Indian Institute of Management, Bangalore, and started Advanced Lean Manufacturing Course from August 2025.

August 2025**Expert Lectures/ Webinar / Seminar / Expert Talk Conducted****Industry Expectations from Fresh Graduates – Seminar by CADCAMGURU**

CADCAMGURU Solutions Pvt. Ltd., Pune, is a leading training institute in Mechanical Design Engineering, CAD, CAE, and Industrial Automation, established in 1998. With its unique teaching pedagogy, strong industry recognition, and a blend of industrial experience and software expertise, CADCAMGURU offers job-oriented courses with 100% placement assistance in the mechanical design domain. Till date, the institute has successfully placed over 5000 students in leading companies across India. Headquartered at Dhankawadi, Pune, the corporate office spans over 10,000 sq. ft. and includes well-equipped classrooms with LCD projectors and modern computer labs. CADCAMGURU has one of the largest CAD training setups in India, catering to both fresh graduates and corporate clients.

As part of industry-academia interaction, a seminar on “What Mechanical Industries Expect from Freshers” was organized by the Department of Mechanical Engineering on Friday, 01 August 2025, from 1:00 p.m. to 2:00 p.m..

The session was conducted by Mr. Shrikant Bidwai, CADCAMGURU Pune, who shared valuable insights on industry expectations from newly graduated engineers.



August 2025

2025-26

Expert Lectures/ Webinar / Seminar / Expert Talk Conducted

One day workshop on “Microcontrollers, Embedded Systems, and Electronic Circuits

One day workshop on “Microcontrollers, Embedded Systems, and Electronic Circuits” was organized by the Department of Mechanical Engineering for S.E. Mechanical students on Saturday, 02 August 2025, from 10:30 a.m. to 12:15 p.m. in the classroom.

The session was delivered by Dr. B. N. Shinde, Associate Professor, Maratha Vidya Prasarak Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik.

The talk focused on the role of embedded systems in robotics, which serve as the framework enabling electro-mechanical systems to be integrated into modern machines. Key aspects discussed included:

- C programming in embedded controllers
- Interfacing microcontrollers with sensors and actuators
- Filtering and control of hardware components

The session also introduced students to the basics of C/C++ programming, particularly in relation to hardware interfacing, communication, and algorithms for state machines and controllers. Furthermore, the importance of electrical circuits for operating controllers, sensors, and actuators accurately and effectively was explained.

Finally, Dr. Shinde provided insights into commonly used hardware devices that are frequently interfaced with microcontrollers in real-world applications.



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College-Level Implementation Workshop on Community Engagement Project (CEP)

The Department of Mechanical Engineering organized a College-Level Implementation Workshop on the Community Engagement Project (CEP) subject on Monday, 04 August 2025, from 4:15 p.m. to 5:30 p.m., in the presence of the respected Principal Sir.

The workshop was conducted by Dr. P. B. Nehe, Associate Professor, and Mr. K. S. Phad, Assistant Professor, Department of Mechanical Engineering, R. H. Sapat College of Engineering. Both resource persons explained in detail the importance and procedure of implementing the CEP subject.

The session highlighted that implementing a Community Engagement Project involves a systematic approach comprising:

- Planning – defining goals, understanding community, and stakeholders.
- Execution – selecting suitable engagement methods such as meetings, surveys, or workshops, and ensuring communication through diverse, accessible channels.
- Monitoring & Feedback – gathering feedback, closing the feedback loop, and adapting the project based on community input.

The resource persons emphasized that the success of such projects depends on fostering two-way communication, ensuring inclusion and empowerment of community members, building sustainable, long-term partnerships, and effectively measuring the project's impact.



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Faculty Achievement and Membership

- Mr. V.T. Mandlik and Mr. C.K.Bhosale successfully registered patent on Connection Table 8th August 2025.
- Three faculty members Mr. K.S.Phad , Mr. A.P.Sonawane and Mrs. R.S.Thakare received membership from Global Society for Technical Education.
- Two Faculty members Mr. C.K.Bhosale and Mr. K.S.Phad received membership from International Association of Engineers (IAENG).

Faculty Industrial Visit

- Dr. P. B. Nehe & Mr. A. K. Salve visited VIP and Mahindra and Mahindra Company regarding AICTE Faculty internship skill on 07/07/2025.
- Mr. A. K. Salve visited Hindustan Hardy, Nashik regarding AICTE Faculty internship skill on 08/07/2025.

Faculty Research Paper Publications

- Dr. Prashant B. Nehe published research paper on title “Prediction of weld bead geometry in directed energy deposition of Nickel-Aluminum Bronze on SS316L substrate using response surface methodology”, Welding International, Taylor & Francis Journal, Vol 39 (9) (2025), ISSN: 1754-2138, <https://doi.org/10.1080/09507116.2025.2518316>

Students Sport Achievement

Miss Kalyani Avinash Chavhan has showcased outstanding talent and consistent performance in the game of chess since her school days. She has:

- District-Level Achievements: Represented her school twice at district-level chess tournaments, demonstrating her strong strategic skills and competitive spirit.
- State-Level Selection: Based on her excellent performance at the district level, she was selected once to represent at the state-level chess competition, a testament to her advanced playing skills and dedication to the sport.
- Inter-College Success: During her college education, she secured 2nd Rank in the Inter-College Chess Tournament, competing against strong opponents from various colleges.

Her consistent achievements at school, college, and state-level competitions highlight her discipline, focus, and problem-solving abilities, which are valuable both in academics and extracurricular activities.



Miss Kalyani A. Chavhan
Chess Player

August 2025

2025-26

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Students Achievement in June / July 2025 End Sem Examination

Third Year Toppers



Khaire Sagar S.
SGPA- 8.90



Sankpal Abhishek R.
SGPA- 8.81



Suryvanshi Vivek R.
SGPA- 8.78



Gadkari Vaibhav S.
SGPA- 8.65

Final Year Toppers

Students Placements 2025

Sr.No	Company Name	Designation	Sector	Location	Package in LPA
1	Powerinst Electromagnets Pvt. Ltd.	Graduate Apprentice Trainee Engineer	Manufacturing	Nashik	1.8 LPA
2	MASO Automotives Pvt.LTD.	Graduate Apprentice Trainee Engineer	Manufacturing	Aurangabad	1.84 LPA
3	Interach Building Products Limited	Sales & Business Development Executive	Construction	Banglore	4.0 LPA
4	Hindustan Hardy Limited	Graduate Engineer Trainee	Manufacturing	Nashik	3.0 LPA
5	TEMA India Pvt Ltd.	Graduate Engineer Trainee	Manufacturing	Palghar	2.64 LPA
6	MSL Driveline Systems Ltd	Graduate Engineer Trainee	Manufacturing	Nashik	3.6 LPA
7	Warner Electronics (I) Pvt Ltd	Apprentice	Manufacturing	Nashik	1.87 LPA
8	Crompton Greaves Ltd.	Graduate Engineer Trainee	Manufacturing	Nashik	4.00LPA



Expert Talk on Career Opportunities in Mechanical Engineering for First-Year Students

The Department of Mechanical Engineering organized an Expert Talk on “Opportunities in Mechanical Engineering” for First-Year (FE) students on Thursday, 4th September 2025, from 11:00 AM to 12:30 PM. The session was delivered by Dr. P. B. Nehe, Head of the Department of Mechanical Engineering, who explained the diverse career pathways available for mechanical engineers.

Mechanical Engineering offers a wide range of career opportunities, and this session aimed to introduce first-year students to the scope of the field, industry expectations, and future trends. Dr. Nehe emphasized that FE students can begin exploring opportunities through expert lectures, aptitude-building sessions, skill-enhancement workshops, and industrial visits. Such programs, aligned with the National Education Policy (NEP), focus on fostering teamwork, communication, problem-solving, and adaptability to prepare students for global challenges.

He highlighted that Mechanical Engineers have career prospects in Design, Manufacturing, Robotics, Aerospace, Automotive, HVAC, and Renewable Energy sectors, with roles ranging from technicians to design and maintenance engineers. Students can pursue careers in Public Sector Undertakings (PSUs) like ONGC and ISRO or join private companies in oil & gas, defence, and electric vehicle industries.



MaTPO Aptitude Idol – 2025

The “MaTPO Aptitude Idol – 2025” was organized by the Maharashtra Association of Training & Placement Officers (MaTPO) in collaboration with GeeksforGeeks (GFG) on 04th September 2025. The event was aimed at enhancing the problem-solving and aptitude skills of students across Maharashtra.

The aptitude contest received an enthusiastic response from SE, TE, and BE Mechanical Engineering students. The test was conducted online under the supervision of faculty members Mr. A. P. Sonawane and Mr. A. K. Salve, the Training & Placement Officers of the department.

The aptitude test had a duration of 60 minutes and covered topics such as reasoning, quantitative aptitude, and problem-solving skills. This initiative created a state-level platform for students to assess their abilities and prepare for placement drives and higher-level competitions. A total of 70 students appeared for the test.



Student Achievements / Placement Drive

- B.E. Mechanical Engineering students appeared for the Neumann ERP System Drive at Kamatwade, Nashik on 20th September 2025.

Faculty Achievements

- Mr. A. K. Salve attended the TPO Meet on “Strategies for Expanding the Recruiter Base as a Competitive Advantage” organized in association with IBS Business School, Mumbai, on 09th September 2025.
- Mr. S.V.Dawange, Mr. L.B. Chintamani and Mr. A. K. Salve, attended the 5 Days FDO on “Next Generation AI: From research to real world impact in multi domain objective ” organized by Dept. of IT, D.Y Patil institute of Technology, Pimpri , from 30th Augest to 09th September 2025.
- Mr. D.S. Chaudhari had completed AICTE Training and Learning (ATAL Academy) faculty develvelopment program on Green Horizon: Interdisciplinary approaches to Emerging Renewable Energy Technology and Climate Sustainability at Regent education and Research Foundation group of Institute From 15th Sept. to 20th Sept. 2025.

Student Activities / Stage- I Project Presentation

- The Stage I project presentations for B.E. students were conducted on 10th September 2025 to showcase their initial project ideas, progress, and methodologies..

Learning from Industry: Alumni Talk on Entrepreneurship for Mechanical Students

On 11th September 2025, Mr. Tanay Akhegaokar, Director of Unisource Pvt. Ltd., Sinnar, delivered an alumni talk on Entrepreneurship Development for SE Mechanical students. The talk was organized by Mr. D. S. Chaudhari and Mr. C. K. Bhosale. Unisource Pvt. Ltd. is a leading manufacturer and exporter of precision mechanical components and assemblies. The company conceptualizes, designs, develops, and productionizes precision components and assemblies, serving almost all types of industries. Whether a client needs a prototype or millions of parts, Unisource ensures timely delivery without compromise on quality. Unisource operates three manufacturing units in Sinnar MIDC to cater to its customers efficiently.



September 2025

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Department Activities

Bridging Academia and Industry: Career Insights for Mechanical Students

The Department of Mechanical Engineering organized a guest lecture on 11th September 2025 for TE Mechanical Engineering students to facilitate the acquisition of career development skills by offering industry insights, networking opportunities, and real-world advice from experienced professionals. This initiative helps bridge the gap between academic theory and practical application.

Mr. S. R. Kulkarni explained that key skills emphasized in the industry often include communication, adaptability, technical expertise, and personal branding, all of which are crucial for enhancing employability and professional growth. Guest speakers provide exposure to current industry trends, real-world challenges, and the practical application of theoretical knowledge, which is often missing in standard classroom settings.

The lecture focused on developing essential skills such as effective communication, adaptability to change, and technical proficiency, helping students understand what employers are seeking.

The lecture was scheduled by Mr. R. S. Pawar and held at Sir Dr. M. S. Gosavi Hall.



Inaugural Ceremony of Mechanical Engineering E-Newsletter

On 12th September 2025, the Department of Mechanical Engineering successfully conducted the inaugural ceremony of its E-Newsletter in the presence of Hon. Guest P. M. Deshpande, Project Director, Hon. Dr. Mrs.D. P. Deshpande, Secretary, Treasurer and Director H&R, Mr. Prin. Dr. R. P. Deshpande, President, Shri. S. M. Gosavi, Director (E&M), Dr. R. M. Kulkarni, Zonal Secretary, Nashik Zone, Gokhale Education Society's, Nashik and Dr. S. S. Sane, Principal of R. H. Sapat College of Engineering, Management Studies, and Research, Nashik. This publication aims to serve as a bimonthly platform showcasing the department's latest achievements, student projects, faculty research, and innovations in the field of Mechanical Engineering.

Faculty workshop Participation

Mr. S.H. Sonawane, has successfully completed Interdisciplinary Approaches to Emerging Renewable Energy Technologies and Climate Sustainability at Regent Education and Research Education and Research Foundation group of institutions from 15/09/2025 to 20/09/2025.



September 2025

2025-26

Industrial Visit**Nilgiri Baag Water Filtration Centre, Nashik**

The Department of Mechanical Engineering of R. H. Sapat College of Engineering, Nashik organized a one-day industrial visit to the Nilgiri Baag Water Treatment Plant, Nashik on 13th September 2025 for the B.E. Mechanical Engineering students. The visit was coordinated by Mr. S. Sonawane and Mr. M. K. Ghode.

The main objectives of the visit were:

- To learn about the different stages of water treatment.
- To observe how water is treated to make it safe for drinking.
- To understand the importance of water treatment in protecting public health.
- To gain an appreciation of the complexity of water treatment systems.
- To learn about different types of water treatment technologies.
- To see how water treatment plants are operated and maintained.
- To understand the environmental impact of water treatment.

In addition, the visit provided an opportunity for students to focus on specific treatment processes such as coagulation and disinfection, as well as critical issues like wastewater treatment.

Overall, the visit proved to be a valuable learning experience, helping students recognize the significance of water treatment in safeguarding public health and preserving the environment.

Guidline for result /academic performance and implementation of mentor mentee scheme

A session for all SE students was delivered by Dr. P. B. Nehe (Head of the Department, Mechanical Engineering) on establishing a successful academic environment through a structured mentor-mentee program and effective monitoring of academic performance.

Dr. Nehe highlighted the importance of maintaining digital or physical records of students' academic activities, including attendance, test marks, and course study materials. He emphasized the need to record and analyze marks from internal examinations and assignments to monitor progress throughout the semester, as well as track results in external university examinations to evaluate long-term academic standing. As part of the mentor-mentee framework, each faculty member (mentor) will be assigned a group of 15 to 25 students (mentees), preferably from the same discipline. This relationship is expected to continue throughout the mentee's entire program of study, providing long-term academic support, career guidance, and personal development assistance.



September 2025

2025-26

Faculty Industrial Visit**V.K.Pump Industries Pvt.Ltd Ambad, Nashik**

Mr. R. S. Pawar and Mr. R. A. Tarle visited V. K. Pump Industries Pvt. Ltd., Ambad MIDC, Nashik, to discuss the implementation of Lean Manufacturing as a part of the Advanced Lean Manufacturing Course at IIM Bangalore.

Faculty Workshop Participation

Mr. S.H. Sonawane, has successfully completed Five-Days Online FDP – Lecture Series on Next-Gen AI: From Research to Real-World Impact in Multi-Domain Applications from 30/08/2025 to 09/09/2025.

One Day Workshop**Universal Human Values One day Workshop**

The Department of Mechanical Engineering, in collaboration with the UHV Cell, organized a one-day workshop on Universal Human Values (UHV) on 20th September 2023. The workshop aimed to explore foundational human values, their application in personal, professional, and social life, and ways to achieve a harmonious and fulfilling existence.

The sessions were interactive, using methods such as group discussions and role-playing to help participants understand and internalize values like trust, mutual happiness, and prosperity. The primary goal of the workshop was to develop ethical and socially responsible individuals through self-exploration and a commitment to value-based living, in line with AICTE's UHV initiative.

The sessions were delivered by Mr. Datta Pawase and Mr. V. M. Raut, Assistant Professors at Loknete Gopinath Munde College of Engineering, Nashik. The workshop was successfully organized by Mr. K. S. Phad.

SE Mechanical CEP Monthly Review

Department completed first Community Engagement Monthly Review, its an activity that summarizes engagement activities and their outcomes over a month, used to track progress, build trust through transparency, and gather feedback for future decision-making. Key components include detailing engagement methods (surveys, focus groups, etc.), quantifying participant numbers, identifying main themes from feedback to provide qualitative data. The review closes the loop by communicating results back to the community, demonstrating accountability, and shaping future community engagement strategies. The review was organized by Mr. K. S. Phad.



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Aavishkar 2025

Participation in Aavishkar Zonal Level Research Competition 2025 Group-1

Students from the Department of Mechanical Engineering participated in the “Aavishkar Zonal Level Research Competition” held at L.V.H Arts, Commerce and Science College Nashik, on October 3, 2025. The Aavishkar 2025 zonal level competitions have taken place, primarily on or around October 1 to 5, 2025, under the umbrella of Savitribai Phule Pune University (SPPU). The participants included B.E. students Mr. Abhishek Sankpal and Krushna Ugale, who presented a project titled “Experimental Investigation of Hybrid Nanofluids: Thermophysical Properties and Application Potential”.



Participation in Aavishkar Zonal Level Research Competition 2025 Group-2

Students from the Department of Mechanical Engineering participated in the “Aavishkar Zonal Level Research Competition” held at L.V.H Arts, Commerce and Science College Nashik, on October 3, 2025. The Aavishkar 2025 zonal level competitions have taken place, primarily on or around October 1 to 5, 2025, under the umbrella of Savitribai Phule Pune University (SPPU). The participants included B.E. students Mr. Sarvesh Nerkar and Sanket Pathak, who presented a project titled “Bionics Inspired Plate Type Microreformer For Hydrogen Production”. His project pioneers the use of Bio-Inspired Geometries (Bionics) to design next-generation Micro Reformers that produce hydrogen on-demand for portable fuel cells. The goal is to maximize hydrogen yield and system efficiency by solving the critical heat and flow challenges in miniature reactors.



Group Discussion Session for Forvia Pune

The Department of Mechanical Engineering organized a Group Discussion (GD) for Forvia (often associated with Forvia Drive in the context of campus recruitment and mobility technology) on 3rd October 2025. The GD was conducted as a part of the company’s interview process to assess candidates’ communication skills, teamwork, leadership potential, problem-solving abilities, and domain knowledge. The discussion topics typically included a mix of current affairs, social issues, and technical or industry-related subjects.



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October 2025

2025-26

Mock Interview**Mock Interview Session for Forvia Pune**

The Department of Mechanical Engineering organized a mock interview session for Forvia Pune on 3rd October 2025. The session included common questions related to students' skills and experience, motivation for joining the company, and behavioral aspects. Students were expected to prepare for questions assessing their technical knowledge, problem-solving abilities, and ability to handle pressure, along with standard interview questions such as "Tell us about yourself."

**Faculty and Student Industrial Visit****Industrial Visit to Roshni Agro Export (Cold Storage)**

As per the curriculum of the SPPU, industrial visit to Cold Storage was organized on date 04th October 2025 for final year students of Mechanical Engineering. It is situated in Makhmalabad, Nashik and stands a leading storage for preservation of agro products cultivated in Nashik region. Total 60 students from Final year classes accompanied by 3 staff members (Dr.P.B.Nehe H.O.D., , Mr.S.H.Sonawane, Mr.L.R.Kokate) visited the plant. A brief introduction about their plant activities was given to students. All the necessary technical details associated with each unit were collected. Students were asked to prepare a schematic layout of overall plant.

**Industrial Visit to Dhumal Industries**

Final-year students of the Mechanical Engineering Department, accompanied by the project group guide Mr. C. K. Bhosale, visited Dhumal Industries on date 06th October 2025, a reputed evaporative cooling pad manufacturing industry. During the visit, the students – Ms. Fadol Tanuja, Ms. Laxmi Patil, Ms. Shweta Gaikwad, and Mr. Prathmesh Narode – observed and studied the detailed manufacturing processes involved in the production of evaporative cooling pads. The industrial visit enhanced their practical understanding and provided valuable exposure to real-time manufacturing practices.



October 2025

2025-26

Industrial Visit**Skill Development through Industrial Exposure at Sanjay Tyer Workshop**

The Department of Mechanical Engineering organized an industrial visit for final-year students to Sanjay Tyer Workshop, Nashik, on 7th October 2025.

The purpose of this skill development visit was to bridge the gap between theoretical and practical learning by exposing students to a real-world work environment. The visit provided insights into company operations and helped enhance essential skills such as communication, teamwork, and problem-solving.

**Industrial visit to zentech ltd Satpur**

For the Skill Development subject under the guidance of Mr. S. V. Dawange and Mr. M. V. Ghode, and for the DML subject under Mr. D. S. Chaudhari, an industrial visit was organized to Zentech Industries on 15th October 2025. Zentech Industries is a manufacturer of auto and CNC components located in the Satpur Industrial Area of Nashik, Maharashtra. This industry is distinct from the publicly traded Zen Technologies Limited, headquartered in Hyderabad, which specializes in defense training systems and anti-drone solutions.



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Alumni Visit to college**Ms Sayali Waghode (2024 Batch)**

Our alumna, Ms. Sayali Waghode (Batch of 2024), currently working at Triveni Turbine, Bengaluru, visited the Department of Mechanical Engineering to share insights regarding the current industry requirements for fresher's.



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Faculty Workshop/Seminar/FDP Participation**Faculty Participation in Lean Manufacturing Practices Conclave at IIM Bangalore**

Mr. R. A. Tarle and Mr. R. S. Pawar Faculty attended the Lean Manufacturing Practices (LMP) Conclave at IIM Bangalore from 2nd October 2025 to 6th October 2025. It was a wonderful learning and idea-sharing experience with the distinguished faculty of IIM Bangalore and leading industry experts.

As the next step in the journey toward value addition and excellence in Lean Manufacturing, a batch of 30 students will undergo training in collaboration with IIM Bangalore starting January next year, under the MoU signed with the institute.





October 2025

2025-26

Faculty Workshop/Seminar/FDP Participation

- Mr. S.V.Dawange and Mr. S.H.Sonawane has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Hydrogen Energy Systems for a Clean and Green Future at Avanthi Institute Engineering and Technology Date 13/10/2025 to 18/10/25
- Mr. K.S.Phad attended the One Day workshop on “Integration of Artificial Intelligence in Electrical Technologies ” Conducted by Globel Society for Technical Education in Association with Joseph college of Engineering and Technolgy, Tamilnadu , on 29th October 2025.

November 2025

CEP Project Review-III

Department completed Third Community Engagement Monthly Review on date 1st Novemeber 2025, its an activity that summarizes engagement activities and their outcomes over a month, used to track progress, build trust through transparency, and gather feedback for future decision-making. Key components include detailing engagement methods (surveys, focus groups, etc.), quantifying participant numbers, identifying main themes from feedback to provide qualitative data. The review was organized by Mr. K. S. Phad.



Student Placement

Mr. Aditya Kakade, a 2018 batch pass-out, was recently selected as a Junior Engineer in Indian Railways.



Best Class Teacher Award

Mr. Satish Dawange is being recognized as the Best Class Teacher for this semester for his dedication, consistent guidance, and commitment to students' overall development, which have made a remarkable impact.

Faculty FDP

- Mr. K. S. Phad and Mr. A. P. Sonawane successfully completed the GSTE–FDP on “Emerging Trends in IoT Applications and Integration with 5G and Cloud Computing,” held from 24th November 2025 to 28th November 2025, organized by GSTE.
- Deptment of Mechanical Engineering all faculty memebers Completed 5 Days FDP on “CFD and Its Applications Using ANSYS” was organized by GES,RH Sapat COE, Department of Mechanical Engineering. from 17th November 2025 to 21st November 2025 with the objective of enhancing the technical and research capabilities of faculty members.



November 2025

2025-26

Department FDP

Faculty Development Program on: Computational Fluid Dynamics and its applications using ANSYS

The Faculty Development Program (FDP) on “CFD and Its Applications Using ANSYS” was organized from 17th November 2025 to 21st November 2025 with the objective of enhancing the technical and research capabilities of faculty members, research scholars, and students from the Mechanical and Civil Engineering disciplines. The program aimed to bridge the gap between theoretical fundamentals and practical industrial applications of CFD through structured lectures, demonstrations, and hands-on workshops using ANSYS Fluent and related tools. A total of 55 participants attended the program, including 38 external participants and 17 internal participants. Among them, 26 were from Mechanical Engineering and 19 were from Civil Engineering.

The key objectives of the program were to:

- Introduce the fundamentals of Computational Fluid Dynamics (CFD).
- Enhance the teaching and research skills of faculty members.
- Train participants to solve real-world Mechanical and Civil Engineering problems using ANSYS Fluent.
- Promote interdisciplinary learning and simulation-driven innovation.

Mock Interview Session for Bosch Ltd., Nashik

The Department of Training and Placement, in collaboration with the Mechanical Engineering Department, organized a Mock Interview Session for Bosch Ltd., Nashik on 25th November 2025. The activity was conducted with the objective of enhancing students' confidence, improving their interview skills, and motivating them to perform effectively in actual placement procedures. The session provided students with a simulated interview environment, helping them understand industry expectations and prepare for real-world recruitment processes.

Students NPTEL Certification

SE Mechanical student Mr. Raj Ramesh Yeole has completed successfully NPTEL Course Engineering Thermodynamics and secured 58% in Examination.

Students Conference Certification

Mr. Manas Sonawane has Successfully presented paper on title AI Detection of Drug activity in Telegram Bots and Groups for Security Applications in 8th International Scientific conference of Instrumentation Engineering -2025 organized by Belarusian National Technical University in Minsk, Belarus During 13th and 15th November 2025.



December 2025

2025-26

Department Placement**Students placement in MASO Automotive**

Eight students from BE Mechanical have been selected by MASO Automotive, Sambhajinagar, with an offered package of 2.4 LPA on 02nd December 2025. This achievement reflects the students' strong technical knowledge, communication skills, and preparedness to meet industry requirements. The selection also highlights the department's continuous efforts toward effective training, skill development, and placement readiness.

**Students Placement**

- Mr. Yash Pagar from BE Mechanical have been selected by Bosch Limited Nashik, with an offered package of 4.5 LPA on 28th December 2025. This achievement reflects the students' strong technical knowledge, communication skills, and preparedness to meet industry requirements.
- Mr. Kaushal Bhamare, Mr. Neeraj Thakare and Miss. Tanuja Phadol has been selected in Eagle Hi-Tech, Sambhajinagar MIDC on date 31st December 2025 with package of 3 Lack per Annum.

Faculty FDP attended

- Deptment of Mechanical Engineering Three faculty memebers Mr. K.S.Phad, Mr.A.P.Sonawane, Mr.M.K.Ghode Sucessfully Completed 5 Days FDP on "AI Tools in Education and Research" was organized by GES,RH Sapat COE, Department of Computer Engineering. from 01st December 2025 to 05th December 2025 with the objective of enhancing the technical and research capabilities of faculty members.
- Mr. S.H.Sonawane has completed Online National Level FDP on Advancements in HVAC&R organized by Department of Mechanical Engineering, JCOE,Kuran Sponsored by ISHRAE Pune chapter from 16th Dec. to 20th Dec.2025.

Faculty Acheivment

- Dr. P.C.Kulkarni, Department of Mechanical Engineering has presented a paper in 12th International Conference on Business Analytics and Intelligence 2025 at Dr.APJ Abdul Kalam Arangam, Madhurai Kamraj University, Madhurai and Recived Best Acadedmic Paper Award entiled A novel Global Path Planning Method for Robotics Using JAVA Algorithm.
- Dr. P. B. Nehe has recently published a book chapter titled 'Multiobjective Optimization of Performance Parameters of a Methanol Steam Reformer' in the book Artificial Intelligence, Computational Intelligence and Inclusive Technologies, published by Taylor & Francis."

**Faculty Conference attended**

Mr.K.S.Phad , Department of Mechanical Engineering has successfully participated as delegate in the 10th International Conference on Human Values in Higher Education (ICHVHE 2025) from date 19th Dec. to 21st Dec.2025.



December 2025

2025-26

Student Internship

Internship Orientation for TE Students

The Mechanical Engineering Department organized an Internship Orientation Program for Third Year (TE) students in the Mechanical Seminar Hall on 29th December 2025 at 12:45 PM to discuss the importance of industrial internships in Mechanical Engineering. Following points discussed such as Objectives, Domains and Opportunities, Expected Learning Outcomes, Dos and Don'ts, Interaction and Q&A Session of the Internship Program.

Faculty Conference attended

Mr. D.S.Chaudhari, Department of Mechanical Engineering has presented paper Entitled "A Comprehensive review on IoT Enabled solar dryers-past, present and future perspectives" at the international conference on Operations and supply chain Management 2025 on date 11th December 2025.



CEP Activity 2025



The Impact of Social Media On society



Herbal and Neutrition



Renewable Energy as Wind Energy



Career Orientation For Youth



Awareness on Junk Food vs Homemade Food





CEP Activity 2025

2025-26

"Awareness sessions were conducted for CEP activities under the following project titles within the community."



Air Pollution

Visited pollution control board office for collecting information about industrial pollution rules.



Visit at doctor to know diseases face by industry workers



Recycling and Waste reduction in solid waste

Awareness was spread across Nashik city.



Biofuels Sustainable Energy Sources



Modern and traditional health care methods



Chemical in daily life



Bhagwad geeta (Human psychology)



Awareness and Action on Water Pollution

Students conducted an awareness campaign on water pollution at Goda Ghat in Nashik.



Cyber Security ,Interview of police representative



Electricity generation from industrial Exhaust





CEP Activity 2025

2025-26

Awareness Sesiions Conducted for CEP activity under the following Project title inside Community



Fire Safety

Students conducted an awareness drive on fire safety and the proper use of fire safety equipment across the college campus for all branch students.



Recycling and Waste reduction in soil waste

- 1. Meeting nutritionist to make a diet plan and ask about good food habits.
- 2. Explaining good food habits to community



Horn control system



Water facilities and drinking water availability



Water pollution



Women safety awareness



Wastage of Electricity



Organic Farming



Implementation of respect , honesty and compassion



Incidence of dibetes and other chronic diseases





Placement 2025-26 [SEM-I]

2025-26



Mr. Manashw Joshi
Pin Click



Mr. Rahul Gangurde
Neumann/MASO



Mr. Anurag Kokande
Neumann



Mr. Chetana Thakre
MASO Automotive



Mr. Atharv Gaikar
MASO Automotive



Mr. Sarvesh Nerkar
MASO Automotive



Mr. Gaurav Rokade
MASO Automotive



Mr. Kaushal Bhamare
MASO/Eagle Hi-Tech



Mr. Prathamesh Shelke
MASO Automotive



Miss. Shweta Gaikwad
MASO Automotive



Mr. Yash Pagar
BOSCH



Miss. Tanuja Phadol
Eagle Hi-Tech



Mr. Neeraj Thakare
Eagle Hi-Tech





Major Equipments and Labs

2025-26



Skf Gx Series FFT Analyzer



Lathe CNC Trainer



Petrol Engine



Diesel Engine Test Rig



Compressor



Vibration Lab Test Rig



CAD/ CAM/ CAE Lab



Metallurgy/ Metrology Lab



IC Engine Lab



Turbo Machinery Lab



Theory of Machines Lab



Dynamics of Machinery Lab



Fluid Mechanics Lab



Workshop



Heat Transfer & Refrigeration Lab