Department of Mechanical Engineering

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Secretary message...

It brings me great joy to know that the Department of Mechanical Engineering is releasing its "Newsletter–2024." Initiatives like this create a wonderful space for students to express their creativity, share knowledge, and grow together as a community.

I extend my sincere wishes to the department for continued success in all its pursuits. My heartfelt appreciation goes to the entire team for their dedication and collaborative efforts in bringing out this inspiring edition of the magazine.

Wishing all the students and faculty members every success ahead.

With Best Wishes,
Mrs. Swati Mahesh Kori
Secretary, DKSST.

It gives me immense pleasure to learn that the Department of Mechanical Engineering is publishing its "Newsletter-2024." A department newsletter not only reflects the academic and co-curricular vibrancy of the department but also serves as a platform for students and faculty to showcase their creativity, achievements, and innovative ideas.

I commend the sincere efforts of the editorial team, students, and faculty members who have contributed to this initiative. Such endeavors cultivate a spirit of learning, collaboration, and excellence within the academic community.

My best wishes to the Department of Mechanical Engineering for the continued success of all its future initiatives. May this newsletter inspire many more to engage, contribute, and excel.

Dr. Dinkar V. Ghewade.

Principal DADSCOE, Bhadgaon.

Department : Vision, Mission

DEPARTMENT VISION

To provide best education in Mechanical Engineering & Technology to the aspirants & serve the nation through development of innovative human asset.

DEPARTMENT MISSION

- To make the department of Mechanical Engineering a preferable destination for aspiring students.
- To provide quality technical education using modern tools in the field of mechanical Engineering.
- To create competent & skilled Mechanical Engineers who are able to handle Mechanical & affiliated systems.
- Cultivate & nurture the spirit of entrepreneurship among students

HOD's Note

It gives me immense pleasure to present the vibrant and dynamic face of the Department of Mechanical Engineering. As one of the foundational pillars of engineering, our department has always strived for excellence in education, research, and industry collaboration.

Mechanical Engineering is not just a discipline—it is a creator of possibilities, empowering students not only with a strong theoretical base but also with practical and project-based learning, equipping them to meet real-world challenges with confidence and creativity.

Our faculty members are dedicated to mentoring students, fostering critical thinking, and engaging in cutting-edge research. We take pride in our well-equipped laboratories, strong industry interface, and the consistent achievements of our students in academics, internships, and placements.

As we move forward, we aim to strengthen our focus on interdisciplinary learning, emerging technologies like robotics and AI in manufacturing, and sustainable engineering practices. We welcome you to explore, innovate, and grow with us.

Mr. Gururaj M Kumbar

Asst. Professor & HOD Mechanical Engineering

College Vision & Mission

Vision:

To provide best quality education in the field of Engineering and Technology to the aspirants and serve the nation through development of Scientific, Creative, Trustworthy human asset.

ACHIEVEMENTS

Our Toppers—Academic Year 2025-26

1. CLASS – Third Year B. Tech

Rank	NAME OF STUDENT	PERCENTAGE
1	Makandar Mahamadasif A	75.27
2	Shinde Suryakant Annappa	71.88
3	Patil Dhanashri Shahaji	71.39

2. CLASS – Final Year B. Tech

Rank	NAME OF STUDENT	PERCENTAGE
1	BELEKAR ANIKET KRUSHNAT	79.10
2	DESAI HRISHIKESH SHRIDHAR	74.97
3	KAMBLE BASAVARAJ VIJAY	71.74

Expert Lecture

- Three Days Faculty Development Program arranged at DADSCOE, on Python with Data Science
  Resource person- Mr. Nitin B. Naik

A one-day workshop on Intellectual Property Rights (IPR) was held to create awareness about patents, copyrights, trademarks, and trade secrets, highlighting their role in innovation and economic growth.

On the same day, a Memorandum of Understanding (MoU) was signed between Dr. A. D. Shinde College of Engineering and MYCrave Consultancy & Services to strengthen industry-academia collaboration.
The event was graced by Sou. Swati Tai Kori, Secretary of Dinkarrao K. Shinde Smarak Trusts, and Dr. Dinkar V. Ghewade, Principal, DADSCOE.
Chief Guests included Mr. Dhruv Brambhatt, Miss Pooja Menon, Mr. Kishor Shendge, and Abay Power from MYCrave.

Dr. Vireshkumar Mathad, Dean Academics and IP Cell Coordinator, coordinated the event.
Over 60 faculty members and 300 students from both Dr. A. D. Sinde College of Engineering and Dr. A. D. Shinde Institute of Technology participated actively.

Engineers Day

On the occasion of Engineers' Day, we proudly celebrate the remarkable contributions of engineers in shaping society through innovation, technology, and problem-solving. In India, Engineers' Day is observed every year on 15th September to honor the birth anniversary of Sir Mokshagundam Visvesvaraya, one of the greatest engineers and visionaries of the nation. This day highlights the importance of engineering in national development and inspires students and professionals to use their technical knowledge for the betterment of society. Engineers play a vital role in developing infrastructure, industries, automation, smart technologies, and sustainable solutions that improve the quality of human life.

Engineers' Day reminds us that engineering is not only about machines and technology, but also about creativity, innovation, and service to humanity. Engineers continuously work to solve real-world challenges in areas such as transportation, communication, healthcare, energy, robotics, and manufacturing. Their dedication and technical expertise contribute significantly to the progress of industries and the growth of the nation. This day motivates young engineering students to develop practical skills, scientific thinking, and a spirit of innovation to become responsible engineers of the future.

Industrial Visit-Dr. A. D. Shinde college of engineering,Mechanical Department visit at TATA Motors & PUC Center

Dr. A D Shinde College of engineering, Mechanical Department visit at TATA Motors & PUC Center

General Activities at a PUC Center:

Vehicle Registration & Data Entry

- Vehicle number and engine type (petrol/diesel/CNG) are recorded.
- Owner details may be entered into the system.

Exhaust Emission Testing

- A gas analyzer is connected to the vehicle's exhaust pipe.
- The engine is run at idle and/or high RPM as per the required test procedure.
- The analyzer measures the concentration of harmful gases such as:
- CO (Carbon Monoxide)
- HC (Hydrocarbons)
- CO_2 (Carbon Dioxide)
- O_2 (Oxygen)
- Smoke density or opacity (in diesel vehicles)

Emission Result Analysis

- The measured values are compared against the permissible limits set by Bharat Stage (BS) emission norms (currently BS-VI in India).
- If the values are within limits, the vehicle passes the test.

PUC Certificate Generation

- A printed or digital Pollution Under Control Certificate is issued.
- This certificate is valid for 6 months (for private vehicles) or as per the latest government rule.

Advisory to Owner

- If the vehicle fails, the technician advises the owner to:
- Get the engine tuned or serviced.
- Check for fuel or ignition issues & Reduce idling time or improve driving habits.

A technical visit to Tata Motors provides students with valuable industrial exposure and practical knowledge about modern automobile manufacturing processes. During the visit, students can observe various departments such as vehicle assembly lines, machining, quality control, automation systems, robotics, and production planning. The visit helps students understand real-time industrial operations, workplace safety practices, advanced manufacturing technologies, and the importance of teamwork and efficiency in the automotive industry. Such industrial visits bridge the gap between theoretical learning and practical application, motivating students to explore innovations and career opportunities in the field of mechanical and mechatronics engineering.

Other Activities

1. *N.S.S. Activity at Mahagaon*

NSS helps the student to grow individually and also as a group. Volunteering for various tasks under NSS activities allows students to become confident, develop leadership skills, and learn about different people from different walks of life.

2. Parents Meet

Teachers and Parents Meet – 2024

Date: 23rd March 2024

Venue: Dr. A. D. Shinde College of Engineering, Bhadgaon

Dr. A. D. Shinde College of Engineering organized a successful Teachers and Parents Meet – 2024 to discuss student progress and strengthen parent-teacher collaboration.

Key Highlights:

- ✓ *Attended by 80+ parents*
- ✓ *Presence of Sou. Swati Tai Kori (Secretary), Dr. D. V. Ghewade (Principal), Mr. C. N. More (Parent Representative), and Dr. Vireshkumar Mathad (Academic Dean)*
- ✓ *Productive interaction between parents and faculty.*

Farewell function

The farewell function for the final-year students of Dr. A. D. Shinde College was a heartfelt and memorable occasion. It marked the end of a significant academic journey and the beginning of new paths for our graduating students.

Throughout their time at the college, these students had shown remarkable dedication, talent, and spirit. They contributed immensely to academics, extracurricular activities, and the overall growth of the college. Their presence brought energy and inspiration to all.

As they moved ahead toward their future—whether in higher education, professional careers, or other endeavors—we extended our best wishes and blessings. We hoped they would carry forward the values and lessons learned here and make their mark in the world.

The college fraternity expressed pride and gratitude for being part of their journey. It was not just a goodbye, but a celebration of everything they had achieved.

3. Cultural Programme

Dr.A.D. Shinde College of Engineering, Bhadgaon Gadhinglaj.
Cultural Programme By students during the NAAC PEER
TEEM VISIT TO INSTITUTE

4. Marathi Bhasha Din

मराठी भाषा दिन – डॉ. ए. डी. शिंदे अभियांत्रिकी महाविद्यालय, भडगाव

डॉ. ए. डी. शिंदे अभियांत्रिकी महाविद्यालय, भडगाव येथे मराठी भाषा दिन उत्साहात साजरा करण्यात आला. या विशेष कार्यक्रमासाठी प्रमुख पाहुणे म्हणून सुप्रसिद्ध वक्ते आणि साहित्यिक **श्री. सतीश सालणकुरकर** उपस्थित होते.

कार्यक्रमाचा उद्देश विद्यार्थ्यांमध्ये मराठी भाषेप्रती अभिमान, जाणीव व जपणूक निर्माण करणे हा होता. श्री. सालणकुरकर यांनी आपल्या प्रेरणादायी भाषणातून मराठी भाषेचे सांस्कृतिक आणि बौद्धिक महत्त्व विद्यार्थ्यांपर्यंत पोहोचवले. त्यांनी आधुनिक युगातही मातृभाषेचे मूल्य टिकवण्याचे महत्व पटवून दिले.

या कार्यक्रमात विद्यार्थ्यांनी मराठी कविता, भाषण आणि सांस्कृतिक सादरीकरणांद्वारे आपली कला सादर केली. मराठी भाषा दिनाचे हे औचित्य सर्वांच्या मनात कायमची आठवण ठेऊन गेले.

As a part of the initiative, students visited a school for differently-abled children. Students like Sushant Nevade, Nisha Patil, and Sudesh Mali addressed and motivated the children through inspiring words. The interaction created an emotional impact—especially during the fruit distribution, when many students were moved to tears.

Following this, the team visited the Blind Assistance Workshop at Panchayat Samiti, Gad, where visually impaired technicians are engaged in assembling LED bulb units. On the occasion of Engineers' Day, students conveyed their greetings and presented a humble donation to support this noble initiative.

This celebration stood out for its compassionate approach, reflecting engineering not just as a profession, but as a means to serve society.

Special words of appreciation were expressed by Mrs. Sathe, who also requested to convey her regards to Hon. Shinde Saheb, Swati Tai, and Principal Sir for supporting such a noble cause.

5. *"Do It Yourself" workshop on Mechatronics.*

A "Do It Yourself" (DIY) workshop on Mechatronics was successfully conducted to promote hands-on learning among students. The workshop focused on integrating mechanical systems with electronics and programming through practical mini-projects. Students enthusiastically participated and built functional models using sensors, microcontrollers, and actuators. This initiative greatly enhanced their technical confidence and teamwork. The event highlighted the importance of experiential learning in engineering education.

Article by Students on 3-D Printing- Shaping the Future Layer by Layer

In recent years, 3D printing, also known as Additive Manufacturing (AM), has emerged as one of the most transformative technologies in engineering and design. Unlike traditional subtractive methods, 3D printing builds objects layer by layer directly from digital models, enabling rapid prototyping, complex geometries, and significant material savings.

From biomedical implants to aerospace components, 3D printing has found applications across diverse industries. Its ability to produce customized, lightweight, and functional parts with minimal waste is revolutionizing how we think about manufacturing. Moreover, desktop 3D printers have made this cutting-edge technology more accessible to students and innovators.

In our department, exposure to 3D printing has empowered us to think beyond textbooks. Hands-on experience with CAD software and printing techniques has encouraged creativity, problem-solving, and real-world application of design concepts.

As the technology continues to evolve—with developments in multi-material printing, metal printing, and even 4D printing—students must stay updated and engaged. 3D printing is not just a tool; it is a gateway to the next industrial revolution.

By: -Prajjwal Chougule & Khushi Kamble

ABOUT THE NEWSLETTER

DADS, COE, DEPARTMENT OF MECHANICAL ENGINEERING PROUDLY PRESENTS ITS NEWSLETTER 2024-25, A REFLECTION OF INNOVATION, LEARNING, AND COMMUNITY.

THE NEWSLETTER AIMS TO KEEP STUDENTS, PARENTS, FACULTY, AND INDUSTRY PARTNERS INFORMED AND CONNECTED THROUGH HIGHLIGHTS OF DEPARTMENTAL ACTIVITIES.

THIS BIANNUAL PUBLICATION SHOWCASES ACADEMIC ACHIEVEMENTS, TECHNICAL EVENTS, SOCIAL OUTREACH, AND STUDENT CREATIVITY.

IT SERVES AS A PLATFORM TO STRENGTHEN ENGAGEMENT AND COLLABORATION AMONG ALL STAKEHOLDERS.

WE INVITE YOU TO EXPLORE THIS EDITION AND BE A PART OF OUR JOURNEY TOWARD EXCELLENCE IN MECHANICAL ENGINEERING.