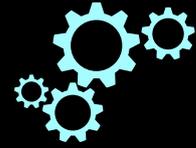


YANTRADNYA



**THE NEWSLETTER OF
DEPARTMENT
OF MECHANICAL ENGINEERING**

**INSIDE
THIS
ISSUE**



- 1. About us...**
- 2. From HOD'S Desk**
- 3. PEO's**
- 4. MOU with Industry**
- 5. Department activity**
- 6. Training Activities for Students**
- 7. Activities for Higher study**
- 8. Technical Events**
- 9. Add On Modules**
- 10. Add On Modules**
- 11. Industry Visits**
- 12. Placement**

ABOUT US...

MECHANICAL ENGINEERING IS ONE OF THE BASIC & MOST DIVERSE AND ENGINEERING BRANCHES THAT TOUCHES VIRTUALLY EVERY ASPECT OF MODERN LIFE, INCLUDING THE HUMAN BODY & HIGHLY COMPLEX MACHINES, THE ROLE OF A MECHANICAL ENGINEER IS TO TAKE A PRODUCT FROM AN IDEA TO THE MARKETPLACE. MECHANICAL ENGINEERS PLAY KEY ROLES IN A WIDE RANGE OF INDUSTRIES INCLUDING AUTOMOTIVE, AEROSPACE, BIOTECHNOLOGY, COMPUTERS, ELECTRONICS, ROBOTICS & AUTOMATION, MICROELECTROMECHANICAL SYSTEMS, ENERGY CONVERSION, AND MANUFACTURING. THE MECHANICAL ENGINEERING DEPARTMENT IS ONE OF THE FINEST AND BIGGEST DEPARTMENTS OF THE INSTITUTE ESTABLISHED IN 2006 WITH THE PRESENT INTAKE OF 120 STUDENTS FOR THE UG PROGRAMME. THE DEPARTMENT IS VERY WELL EQUIPPED WITH WORKSHOPS, LABORATORIES, DEPARTMENTAL LIBRARY, AND DIGITAL LIBRARY FACILITIES. THE CLASSROOMS ARE WELL-DESIGNED ROOMS THAT INCORPORATE EVERYTHING NEEDED FOR A PLEASANT LEARNING ATMOSPHERE. IT PERSISTENTLY SEEKS AND ADOPTS INNOVATIVE METHODS TO IMPROVE THE QUALITY OF EDUCATION CONSISTENTLY. QUALIFIED AND EXPERIENCED FACULTIES ARE STRONGLY ENCOURAGED TO NURTURE THE STUDENTS. REALIZING THE IMPORTANCE OF LEARNING BEYOND CLASSROOMS, THE DEPARTMENT ENCOURAGES STUDENTS TO INDULGE IN CO-CURRICULAR ACTIVITIES. THE DEPARTMENT HAS ESTABLISHED STUDENT CHAPTERS IN ASSOCIATION WITH INTERNATIONAL & NATIONAL PROFESSIONAL BODIES LIKE SAEINDIA, ISHRAE, ASHRAE, ISTE, QCFI, ETC.

VISION

To aspire for the welfare of society through excellence in Science and Technology.

MISSION

To develop professional skills through student centric activities and the industry interactions.

To prepare students for higher education, research and innovation.

To make globally competent and socially committed Mechanical Engineers with morals and ethical values.



FROM HOD'S DESK



DR.v.r deulgaonker
professor & head

Welcome to the Department of Mechanical Engineering of Marathwada Mitra Mandal's College of Engineering Karvenagar, Pune. We started our journey in the year of 2006. Over the last fifteen years, we have grown our expertise & competence in the core Mechanical Engineering curriculum.

The primary focus of our curriculum is to impart technical know-how to students, promote their problem-solving skills & innovate new technologies. The students are encouraged to undertake various research projects.

We have state-of-the-art research facilities in the constitution with industry to support our academic programs. Our department has a distinguished record in both teaching & research. Faculty members have excellent academic credentials & are highly regarded. Our department looks forward to contributing to solving the technological challenges of society with active participation from all sections of society.

The goal of this newsletter is to keep you updated with developments in the Mechanical Engineering Department of MMCOE. This department is continuously transforming. New initiatives have been launched related to academics, student affairs, research, and extra curricular activities.

The students & faculty members of the department are sincerely participating in various activities organized at the institute or other places. It is elevating to see the sound performance of students. I offer best wishes for future activities. At last, I thank the editors of YANTRADNYA for their sincere efforts & I offer my best wishes to the readers of this newsletter.



EDITORIAL



Mrs. Mayuri P. Rode
Chief Editor

It brings me immense joy & pleasure to introduce the thirteenth edition of the departmental newsletter 'YANTRADNYA'. All the creative energies that came into this

platform in the form of faculty experts & students is finally presenting a replica of their enthusiastic hard work through this extravaganza that has come out so organically.

Technical & Arts every section shines out differently in its true sense. All the events conducted throughout the year were perfectly planned & executed & the overwhelming response it received said it all! This piece of art would not have been complete without the sheer determination & perseverance of all the students who pushed their limits every time to bring out this artistic reality. Their efforts coupled with immense support from the faculties truly have done justice to carry on the legacy. I am grateful for all the support YANTRADNYA has received throughout the year in every possible way from the faculties & Students. I hope the readers of the newsletter have a wonderful reading experience & wish this year's edition to receive your love & support like it has always received to date.



There is no denying that one day my memory of words will turn vague but every page of this newsletter will open a box of memory so vivid! Filled with hard work, dedication & limitless time put in making this one book that I will always be grateful to "YANTRADNYA" will make you fall in love with drawings again! It gives me immense pleasure to bring to you an extraordinary & masterly collection of the events, activities, achievements, and highlights at the college presented in the 11th Annual departmental newsletter "YANTRADNYA- 2024" Issue 15



chirag jain
Content Editor

The newsletter reflects the identity of MMCOE as well as gives the students & teachers a platform to explore their creativity & imagination. This work is a result of the various phases from planning to data collection to segregation to organization to proofreading to designing. I take this opportunity to express my gratitude to our HOD Dr.V.R.Deulgaonker professor & head & Mrs. Mayuri P. Rode for their constant assistance & guidance. My sincerest thanks to all the captains, heads, mentors & teams without whom this newsletter would have just been a dream. Last but the most least, you, the readers, YANTRADNYA would not have been what it is today without you. So, as you turn through the pages, I hope you like the curation of emotions, fervor, faith, ideas & aspirations expressed in words.



Program Educational Objectives

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

Graduates from our department will

- studies, research & industries.
- Become competent engineers for successful careers in higher
- Acquire knowledge-based skills to solve problems in mechanical engineering & related fields.
- Achieve professional ethics & managerial skills.
- Respond to the growing demands of society through lifelong learning and extension.

MOU with Industry

| Sr. No. | Memorandum of Understanding (MoU) | Date |
|---------|-----------------------------------|------------|
| 1 | Athena Automation | 01/01/2024 |

DEPARTMENT ACTIVITY

- Team Abhedya of Marathwada Mitra Mandal's College of Engineering, Karve Nagar, Pune participated in BAJA SAEINDIA 2024 organized at Natrax, Indore, Madhya Pradesh held between 10-15th January 2024.
- The following are the achievements:
 1. AIR 6 in Sled Pull
 2. AIR 8 in Acceleration
 3. AIR 10 in Maneuverability
 4. AIR 13 in Endurance Race
 5. AIR 15 Overall
- 6. Two Students of BE Mechanical Engineering Mr. Laukik Bale and Ms. Kartiki Gujar were placed in Anand Group with a package of 8LPA.
- Team Achilles won the SAEINDIA Effi-Cycle 2024 event, securing the 2nd rank in the Effi-Que ADAS category. They performed exceptionally in various tests, including the Break, Drive Excellence, Gradient, Acceleration, and Collagen tests, outperforming other participants from India. As a reward, they received a cash prize of Rs. 20,000.
- Team Rudra won the 1st prize with a Rs.14,000/- cash prize at the robot presentation competition held at PCCOE, PUNE. TE and SE students of Mechanical and E&TC represented MMCOE from Team Rudra on March 29, 2024.
- Team Rudra achieved Joint AIR 1 with a perfect score of 100/100 in Stage 1 of DD ROBOCON 2024, hosted by Vietnam in association with IIT Delhi, India, on February 17, 2024.



SUPRA



GPS Map Camera

Gautam Buddha Nagar, Uttar Pradesh, India
Star Stand 3 East, Buddh International Circuit, Jaypee Sports
City, Sector 25, Uttar Pradesh 203201, India
Lat 28.343857°
Long 77.537042°
11/07/23 09:14 AM GMT +05:30



TRAINING ACTIVITIES



FOR STUDENTS

- BE Mechanical students conduct AMCAT (Aspiring Minds Computer Adaptive Test) on 10/02/2024 and 15/03/2024.

ACTIVITIES FOR HIGHER STUDY

- Expert Session on Opportunities for Higher Education at Texas State University (TXST) by Ms. Courtney Sears (Director of International Recruitment and Marketing, Texas State University) on March 4, 2024
- Alumni interaction Mr. Nishad Bagawade's 2017 batch wrapped up with mechanical engineering students. A total of 66 students were present. The topic of Interaction: Industrial Experience and Skills for Industry via ERP On February 28, 2024, and October 14, 2024, we organized the interaction of alumni with current BE students.

| Year | Course Name | Candidates Appeared | Candidates Passed | Passing Percentage |
|------|--------------------------|---------------------|-------------------|--------------------|
| SE | Advanced C++ | 109 | 100 | 91.74 |
| TE | Arduino | 110 | 110 | 100 |
| BE | Android App using Kotlin | 187 | 187 | 100 |

MECHANICAL ENGINEERING STUDENT ASSOCIATION ACTIVITIES

- Mr. Niranjn Patil, Mr. Abhijit Shinde Senior faculty Chanakya Parivar gave an expert session on Competitive Examination, Civil Services (Career Guidance) on 24/01/2024

WORKSHOP ORGANISED BY THE DEPARTMENT

- Three-day workshop on “Mechanical System Analysis by using CFD and MBD software” from 11-03-2024 to 13-03-2024.
- 4.
- Three days workshop on “CNC Programming on multi-axis machining center” from 11-03-2024 to 13-03-2024.

TECHNICAL EVENTS

| Sr. No. | Name of Professional Societies / chapters | Title of Event Organized | Date |
|---------|---|---|----------------------|
| 1 | MESA | Community Development at Shivare Guest Lecture by Chanakya Mandal Pariwar | 19/01/24 24/01/24 |
| 2 | Departments | B. E. Project Competition | 05/03/2024 |
| 3 | Departments | SE Project based learning (PBL) Poster Presentation Competition | 27/03/2024 |

ME
CUTE

ADD ON MODULES

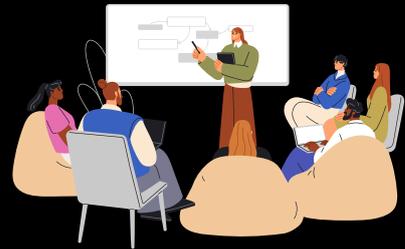
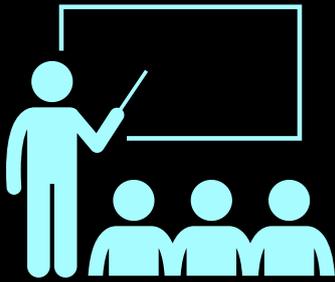
- Three-day workshop on “Mechanical System Analysis by using CFD and MBD software” from 11-03-2024 to 13-03-2024. Three days workshop on “CNC Programming on multi-axis machining center” from 11-03-2024 to 13-03-2024.



GUEST LECTURES

- Mr. A. D. Paranjape, Assistant General Manager Retd., TATA POWER Company Ltd., Mumbai gave an expert session on “Thermal Power Plants” on 07/02/2024
- Mr. Nishant Bhonge, Managing Director, Sapience TechSystems Pvt. Ltd, Pune gave an expert session on “Advanced Manufacturing with Siemens NX-CAM” on 12/02/2024.
- Mr. Pranav Anekar, Internal MM Support team member, Vasundhara Engineering, Pune gave an expert session on “Recent trends in Manufacturing Engineering” on 29/02/2024.
- Dr. Archana Nema, Research Analyst, Fiserv India Pvt. Ltd. Pune gave an expert session on “Unlocking Efficiency and Innovation: Harnessing the Power of Intelligent Robotic Process Automation (RPA) with Application of AI and ML” on 12/03/2024
- Dr. Mahesh Kulthe's expert session on "Recent Trends in Composite Materials and Its Applications" is on 13/03/2024 for the subject Composite Material.
- Mahesh D. Patil, Senior Manager, Tata Motors. Ltd, Pune gave an expert session on “New Innovation in Hybrid Electric Vehicle System: Role of the Transmission System in a New Era of the Automobile Industry” on Friday, 05/04/2024.





(INDUSTRY VISITS)

| Sr. No. | Academic Year | Date | Name of Industry | Beneficiaries |
|---------|-----------------|------------|---|---------------|
| 1 | 2023-24(Sem-II) | 12/03/2024 | Mikro Innotech India Pvt Ltd, | SE |
| 2 | | 07/03/2024 | SMC corporation (India)limited | TE |
| 3 | | 29/02/2024 | Sant Tukaram Sahakari Sakhar Karkhana (Co-generation Power Plant and Sugar Factory) | BE |
| 4 | | 05/04/2024 | Chitanya Enterprises | SE |
| 5 | | 10/02/2024 | VGTAP Lab | SE |



