

# MIT

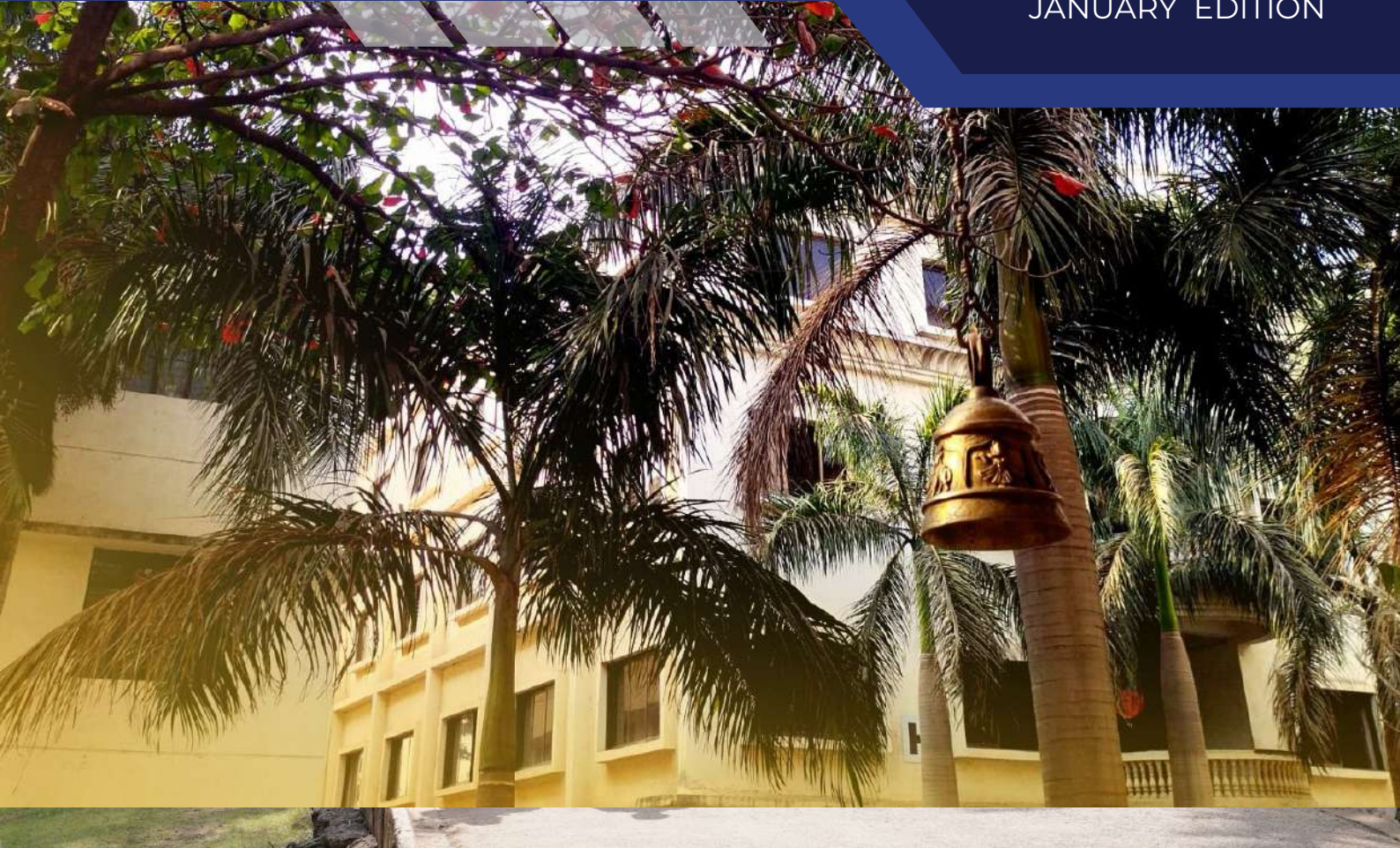
# Academy of Engineering

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

# THE INSIDER

## 31-01-2024

JANUARY EDITION



## INTRODUCTION

The monthly newsletter of MITAOE, "The Insider," shares information about educational events, monthly activities, guest lectures, webinars, and other events that help B.Tech and B.Des students prepare for a bright future. There are many more activities that take place on the MITAOE campus. Standing by the motto, "You grow and the institution will grow with you," we at MITAOE honor one another's success stories, both large and small, and this is one way we do it!

It is our earnest hope that you will find The Insider, our monthly newsletter, to be beneficial and inspiring for future development. We would like to express our gratitude to all of the faculty and staff for making this possible each month.

Here are the highlights of January 2024 with the monthly newsletter from MITAOE- 'The Insider'.

Reach us at [marketing@mitaoe.ac.in](mailto:marketing@mitaoe.ac.in) for constructive feedback that will be helpful for us.

# SPOKE PERSON

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**Dr Shyam Shukla**

Dean School of Civil Engineering, MITAOE

As the **Dean of our esteemed School of Civil Engineering at MITAOE**, I am thrilled to witness the recent advancements and technological developments revolutionizing our industry in 360 degree. From the integration of Building Information Modeling (BIM) and 3D printing in construction to the adoption of sustainable materials and innovative design methodologies, our field is at the forefront of shaping the built environment of tomorrow. Embracing these advancements not only enhances efficiency and sustainability but also empowers our students to become forward-thinking leaders poised to tackle the complex challenges of the 21st century. Together, let us continue pushing the boundaries of innovation in civil engineering.

# ACTIVITIES

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**Dr. Prashant Jikar**, has completed the **One week Faculty Development Programme** on NEP 2020 Orientation & Sensitization under “Malaviya Mission Teacher Training Programme (MM-TTP)” of University Grants Commission (UGC) Organized by UGC -Malaviya Mission Teacher Training Centre (Formerly UGC Human Resource Development Centre) Savitribai Phule Pune University, Pune -411007 from 15/12/2023 To 29/12/2023

- **Mr. S. B. Powar** completed the **AICTE** Evaluated 2- Week Patent Course organized by Turnip Innovations and facilitated by Dr. Rahul Kapoor during 25/09/2023 to 08/10/2023.
- **Dr. S. B. Patil** completed Module 6: Student Assessment & Evaluation of National Initiative for Technical Teachers Training organized by AICTE.



- **Dr. Rashmi Mahajan, Prof. Shilpa Rudrawar, Prof. Ritu Jain** have successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on 'Emerging trends in Semiconductors' at Pimpri Chinchwad College of Engineering, Pune from 15th January to 20th January 2024.



**Prof. Saylee Bidwai** attended five days' Faculty Development Program on 'Industrial Automation' organized by Department of Automation and Robotics, Mechatronics & Electrical Engineering, Sharad Institute of Technology College of Engineering, Yadav in association with IEEE, ISTE & IIC from 23rd December to 29th December 2023.

- **Prof. Vaibhav Gijare** attended an online session on 'Simplifying the Brain: The need for reforms in Brain theory' delivered by Prof. Srinivasa Chakravarthy, IIT Madras on 19th January 2024.

## STUDENTS/ FACULTY ACHIEVEMENTS



- **MIT AOE Drone Team** is the winner at Government College of Engineering Avsari, Aurangabad in Dronix Event conducted during 19th & 20th January 2024.



- **Dr. Usha Verma, Head CELT**, is awarded with 'Leadership of Teaching and Learning Center' Award on 4th January, 2024 during 11th International Conference on Transformations in Engineering Education 2024 to be held at KLE Technological University, Hubli

# RESEARCH & DEVELOPMENT

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## - Conference papers presented

Rohit Kanherkar, Pranav Lohar, Yash Tajane, Varsha Auti, Sohan Londhe, Aashish Athavale, Ashutosh Gaikwad, Pratik Bendre, Kaustubh Shinde, Mayur Chaudhari, Poonam Rathod, Shivam Kapure, Pratham Nagarhalli, Satyam Lomate, Shaunak Inamdar, Vaishnavi Katkade, Ashish Kumavat, Sarthak Deshmukh along faculty coordinator Dr. Pramod Kothmire presented a total of 19 papers at FMFP 2023 10th International and 50th National Conference organized by IIT Jodhpur spanning various tracks such as CFD, Multiphase, Fluid Dynamics, among others. The students had the valuable opportunity to explore the IIT Jodhpur lab facilities and engage in insightful discussions with esteemed professors, offering them valuable insights for higher education and research.

## - Book Chapters

Advanced **CFD 2022-23** batch - 9 papers are published as a Book Chapter at Fluid Mechanics and Fluid Power Volume 3, Springer Nature Scopus by the Mechanical Students under the guidance of **Dr. P. P. Kothmire**. The following is a list of the articles that have been published and are now available online.

- Numerical Investigation on Performance of CPU Heat Sinks Check for updates
- CFD Analysis of Drag Reduction System (DRS) in Cars
- CFD Analysis of Different Shape Rocket Nozzles
- CFD Analysis of Exhaust Gas Flow Through Muffler
- Numerical Investigation on Performance of CPU Heat Sinks
- Numerical Investigation to Study the Effective Position of Air Conditioner in an Office Room
- CFD Analysis of Catalytic Converter to Optimise the Back Pressure and Velocity
- CFD Analysis of Diesel Engine Intake Manifold
- CFD Analysis of Different Designs of Greenhouse

## - Manuscript

Manuscript of **Dr. S. Bhowmik** has been accepted for publication in International Journal of Hydrogen Energy entitled "Estimation of Efficiency, emission and Exergy of a compression ignition engine under biohol- Hydrogen strategies using Artificial Neural network".

## - Conference

- Prof. Nutan Bansode, Prof. Isaq Shikalgar published a paper titled 'Comparison for FIR Filter Design Technique' in 2023 7th International Conference on Computing, Communication, Control and Automation (ICCCUBEA).
- Vaibhav Gour, Mayur Gurnale, Mohammad Kaif, Akanksha Bherje, Prof. Nutan Bansode published a paper titled 'Improved Audio Filtration using IIR Filter' in 2023 7th International Conference on Emerging Smart Computing and Informatics (ESCI).

## - Journal Publication



A research paper published in American Chemical Society's I & EC journal by Dr. Pramod Kothmire entitled “**Interplay of Residence Time Distribution and Electric Chaining Tendency due to Distributor Design Determine Electro Coalescer Performance**”.

## OTHERS

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- Mr. Rohit Daptardar, alumni from Mechanical 2017 batch, M.S. in Business Administration Australia, Sr. Executive Business Development at TUV Pvt. Ltd. delivered a talk on “Certification n Quality standards follow in Tier 1 and Tier 2 industry” for TY Mechanical engineering students on 15th January 2024.
- Mr. Shani Deshmukh, alumni from Mechanical 2017, Lead Quality Engineer, Research centre, TATA motors Pvt. Ltd. delivered a talk on "Driving Innovation: Charting the Future of the Automotive Industry with Insights from Our Esteemed Alumni" for Mechanical engineering students on 17th January 2024.

- Mr. Akshay Narad, Alumni from 2018 Mechanical batch Sr. Design Engineer, Daimler Truck Ltd Bangalore, delivered a talk to TY Mechanical regarding “Opportunities for Mechanical engineers in Automotive sector industries” on 4th Jan 2024 at 11.25 am in room no H011.
- Mr. B. R. Patil invited as a judge for an event “Vigyantram” robotics event held at IIT Bombay during 20/01/2024 to 21/01/2024.
- Mr. Ganesh Sakhalkar, 2020 Mechanical Engineering alumni, Executive Engineer, Reverse Engineering, TATA technology, delivered a talk on “Role of Costing and procurement Engineer in Core Industry” at Vishwajyoti Auditorium, CRPC, MITAOE on 24 January 2024.
- Dr. Vipin Yadav submitted a book proposal to IGI Global with the title 'AI in Healthcare: From Data Acquisition to Edge Computing' in collaboration with NIT Hamirpur and VIT AP, India.

“We **Thank** all the faculty members, staff, and students who have been helpful and cooperative while the newsletter was under process. It is with a team of active members that the February edition of “**The Insider**” is ready to be published.”

## EDITORIAL TEAM

Bhushan Bembale  
Nilesh Lokhande

Harshada Kumbhakarna  
Milan Sagdhara

Sarvesh Shinde