



INTRODUCTION

The second issue of MITAOE's **"The Insider"** published in February 2023 will feature several events, activities, and accomplishments racked up by our students and faculty in the month of February 2023.

We sincerely hope that our readers will find "The Insider" to be both useful and

educational in its mission to inform them about the institute. We also want to thank the faculty and staff at our institution for their contributions to this book.

If you have any suggestions or feedback that could improve us, kindly contact us at marketing@mitaoe.ac.in.

SPOKE PERSON



Dr Dipti Y Sakhare

Professor & Dean,
School of E&TC Engineering

The School of E&TC in the Engineering at MITAOE is one of the principal academic movers at MIT Academy of Engineering, which facilitates students to specialize in the field of Electronics as well as Electronics and Telecommunication and also takes pride in the quality and excellence of its joyful learning, industry institute interaction, activity-based learning, industry-based projects, extracurricular and co-curricular activities, and research.

We at **MITAOE** equip the students with the knowledge of a blended choice-based curriculum of Natural Sciences and Engineering Sciences.

We do ensure overall development of our students by organizing academic initiatives in the department for research, innovations, skills enhancement and interdisciplinary interactions.

In addition to regular curriculum, student can register for Honors in AI & ML and Cloud computing. The School of E&TC Engineering is dedicated to the overall development of its students through joyful learning and club activities. The environment is created for self-learning with an active involvement of the students in various competitions of national and international repute like NIYANTRA, e-Yantra, IRO (Indian robotics Olympiad), World Skills International competitions in the skills of electronics and mobile robotics, Aero modelling, Hackathon and many more technical competitions.

The department is bestowed with a highly motivated faculty in different technical team like Signal & Image Processing, VLSI and Embedded System, Wired & Wireless Communication, Systems & Control. The concerted efforts of faculty are manifested in the form of completing a number of research projects funded by University of Pune, AICTE and Department of Atomic Energy, Govt. of India.



Dr Janhavi Inamdar

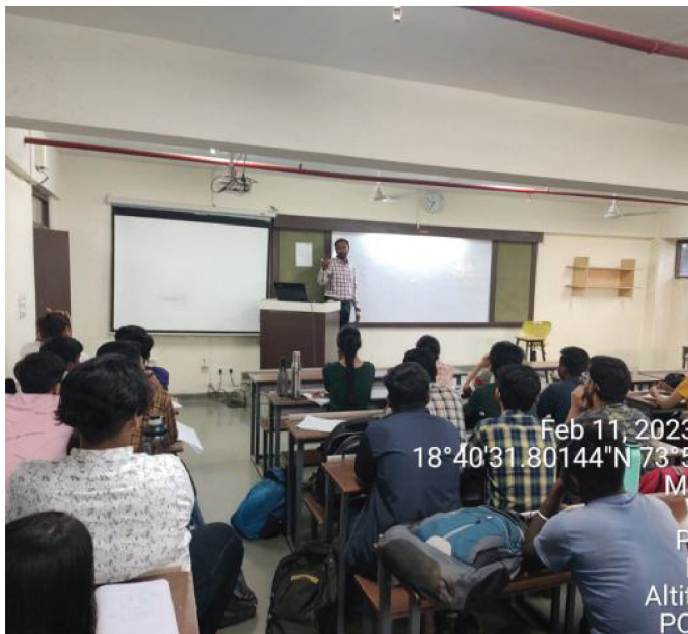
Dean, External Relations MITAOE

Students from MIT AOE may take the benefit by participating in international summer internship program which is credit based. Students will get international exposure for 2 weeks, 4 weeks or 6 weeks period in the months of June and July every year. We have proposed 8 foreign universities in the year 2023.

Once you visit our website you will be able to Read More about the foreign universities, you will see the project lists offered by the universities.

EVENTS

Dr. Prafulla Hatte, Dean R&D, conducted a workshop on "Leadership" for the student council of Podar International School, Pimpri. The student leaders from 7th to 9th standard participated in the workshop. It was conducted on 31st January 2023.



Mr. A. Shaikh, PhD Research Scholar, National Institute of Technology, Surat, Gujarat, organized an expert lecture on

"Design of Traffic Signals and Geometric Design of Highway"

on 11 February 2023 at our campus, especially for the third Engineering students. The session highlighted how designing traffic signals and highways is crucial for transportation engineers and ensuring safe and efficient traffic flow.

MITAOE Student Council and Ignited Minds club together organized Shiv Jayanti at MITAOE. The celebration began on a sunny morning of 19 February 2023 with the arrival of the Shiv-jyot statue of Shri Shivaji Maharaj at the MITAOE campus, followed by the placement of the statue on the Takshshila lawn for the whole day.

Later in the day, a Palkhi procession was held with the statue carried from the main gate to the Takshshila building with Lezim and Dhol Pathak. The event also included speeches, songs, and traditional dances performed by enthusiastic students.

There was also forte making competition & sketch competition. Various groups of students participated in the competition. The event was entirely organized and managed by them.



On 3rd February 2023, the Innovation Council of MITAOE organised a workshop on Entrepreneurship Skill, Attitude & Behaviour Development.

The workshop was done by **Dr. Prajakta Insulkar, Founder & CEO of Kalpavriksha 360**. It helped attendees to know about entrepreneurship & skills possessed by an entrepreneur.

Keynotes of the session:

- What is an Entrepreneur?
- Entrepreneurial Mindset
- Skills & Attitude
- How to promote your product/service?



On February 4, 2023, MIT Academy of Engineering hosted a seminar featuring the distinguished Indian Physicist, **Padmashree Professor H C Verma, also known as the "God of Physics."** During the seminar, Professor Verma spoke on the topic "Importance of Science" and the current and

in the field. He also interacted with students and faculty. More than 200 students from different colleges and schools attended the seminar. Professor Verma's words not only acted as a shooting star for our young minds but opened a wide plethora of ideas, concepts and the world of science around us. He also highlighted the temporary nature of the "trends" in the education and specifically in engineering and advised the students to follow the interest with patience and dedication.

Students heard him sound and came back with lot of learning to sustain for the rest of life. He also inaugurated "Waves" a platform to explore the rhythm of life and living.

2. On February 11th, 2023, the MIT Academy of Engineering in Alandi successfully hosted the SCICON 2023 Science Exhibition and Contest for students ranging from 1st grade to undergraduate level. In preparation for the event, five MITAOE students, three from the first year, one from the second year and one from the third year, visited various



schools to give demonstrations on project creation. 109 teams with the total number of 250 students from different schools under Category-I to Category-IV participated in the competition and demonstrated their ideas under various themes like Everyday Science, Ancient Science, Future Science and Science Photography. This time SciCon team also approached and orient the students of schools like Navodaya Vidhayala and NFBM Jagruti's Blind School for girls to par

ticipate in SCICON 2023. This initiative brought us projects like a chart presentation of the solar system in braille and a project on drip irrigation, which was supported by MITAOE students. The event was graced by the presence of the Chief Guest, Dr. Sangeeta Barve, and two alumni of MITAOE. Dr. Barve also gave a captivating speech on her book "Piyuchi Vahi," which is an excellent read for kids, written in a simple and fun language. The judges were patient and thoroughly evaluated each student's project. Overall, it was a well-rounded exhibition where students were able to interact and share their mutual interests in science and its future.

3. One more facility addition in MITAOE. The LIC committee recommended PhD research centre for the MITAOE School of Computer Engineering this will help scholars to enhance their educational research in MITAOE.

4. Start up of MITAOE alumni Krunal Jagtap (Hab Biomass Private Limited) has been awarded BIRAC a grant of 50 lakhs in IBT, Clean Tech and Envi

ronment categories. Out of numerous applications received across the country, Hab Biomass Private Limited has been adjudged as the PAN India topper for this year's BIRAC BIG 21. BIRAC is considered to be one of the most toughest and prestigious grants. congratulations to MITAOE ED Cell, Mentors Prof Hatte and Tukaram Sonawane for providing the Eco system at MITAOE.

5. In celebration of **Professor Dr. Vishwanath Karad's 82nd birthday, the MIT Academy of Engineering**

organized a Medical Check-Up and Blood Donation Camp on February 3, 2023. With the assistance of Sahyadri Hospital, the event was attended by 463 faculty, staff, and students who took benefit from the consultation facilities from various

signals and received free tests such as Blood Pressure, Blood Sugar, Height, Eye Check-up, ECG (as per the doctor's advice), and Dental check-ups. Renowned specialists from different fields, including Gynecology, Orthopedic, Medicine, Ophthalmology, Dentistry, Physiotherapy, Psychiatry/Clinical Counseling, Physician (MD Medicine), Ayurvedacharya, and Homeopathy, also graced the event with their presence. At least 150 individuals also showed their support by donating blood.





6. The legacy continued this year MITAOE's Five students of the school of computer Engineering won the prestigious Aegis Graham Bell Awards 2022 (AGBA)- National Talent Hunt

1. Eva Khajuria - School of Computer

2. Sameer Patil - School of Computer
3. Aditya Barve - School of Computer
4. Namrata Dhoble - School of Computer
5. Meet Bedmutha - School of E&TC

1. The iconic Graham Bell Trophy
2. 100% scholarship/ financial aid for any PG/ MS degree they wish to pursue in the field of AI, ML, Data Science, Business Analytics, Big Data, Deep Learning & Cybersecurity.
3. Incubation center across Mumbai, Bangalore, Pune for any startup he wishes to start.
4. Work on real-life projects with top MNCs. All these rewards would be sponsored by IBM and AEGIS and Post-Graduation Certificate shall be issued by IBM. MITAOE wishes all the very best for their future endeavours.

Congratulations !

Team Niyudrath Karting participated in Indian Kart Championship (IKR) Electric Category at kolhapur Mohite racing circuit.

Achievements

- BEST ACCELERATION
- BEST AUTOCROSS
- BEST TIME TRIAL
- BEST SKIDPAD
- BEST CAD MODEL
- BEST ENDURANCE WITH CHAMPIONSHIP
- PRICE MONEY OF 1 LAKH+.

7. Team **Niyudrath** (Karting), Mentor **Mr. B R Patil** (Assistant Professor, School of Mechanical Engineering) and supporting faculty and staff from Workshop and Design, for winning following category of prizes at the First Indian Kart Championship (IKR): Electric Category at Kolhapur Mohite racing circuit.

The team has designed and built the electric kart with a custom battery.

THE TEAM WON,

1. BEST ACCELERATION
2. BEST AUTOCROSS
3. BEST TIME TRIAL
4. BEST SKIDPAD
5. BEST CAD MODEL
6. BEST ENDURANCE WITH CHAMPION

Trophy & prize money of 1 lakh

1. All India Ranking (AIR) 1st in go green event
2. AIR 3rd in Design evaluation
3. OVERALL AIR 9th
4. With prize money of ₹ 20,000 /-



MITAOE's Team **Niyudrath Racing** has performed the best in the **BAJA 2023**, won several awards and prize money. The continued efforts, hard work and dedication of workshop faculty and staff, Design and Dean Student Affairs has resulted in winning prizes in the following categories at BAJA 2023 which was held at Indore over a period of 4 days

The team was mentored by Mr B R Patil (Assistant Professor School of Mechanical Engg)



9. Dr. Pramod Kothmire, School of Mechanical Engineering, MITAOE Alandi Pune won the Winner Award for the Best Experimental Model competition for the t

heme Energy and Sustainability at IIT Indore in Research and Industrial Conclave 2023 from 20th January to 22nd January 2023. The medal, certificate, and Rs 5000/- goodies were given for the same. There were around 130 participants from all over India participated in various themes such as Smart and Intelligent vehicles Artificial Intelligence, machine learning, Climate and Remote Sensing Data, Computational Techniques, Energy and Sustainability, Advanced Materials, and Agriculture and Healthcare. The objective of the competition was to provide a forum to harness the innovative, minds of current society by taking innovations made in research

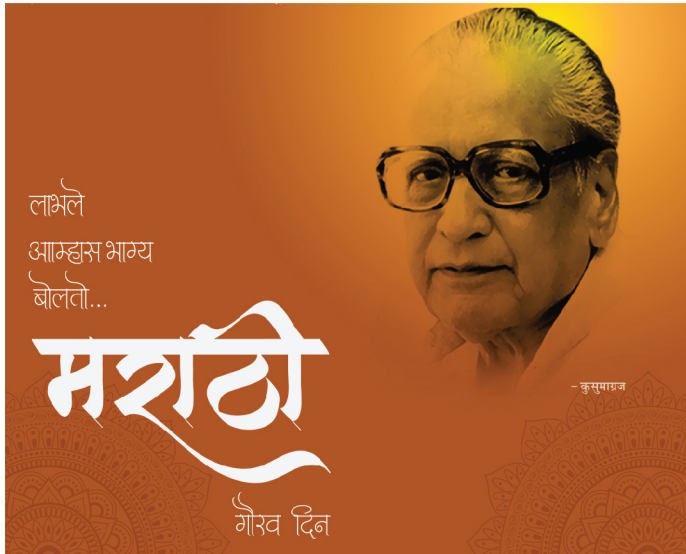
to their actual implementation in the industries.



Mrs. Anauradha Pawar (Assistant Professor, School of Electrical Engineering, Corporate CISCO

Networking Academy course Relations MIT Academy of Engineering) has secured 2nd position for instructors-led activity by implementation at Bangalore on 27th Feb 2023 congratulations to her and Dr. Shitalkumar Jain and a team of corporate relations.

'MATRUBHASHA DIVAS'



The '**Matrubhasha Divas**' was organized by the team AjaanVriksha on 20 February 2023 as is every year as a tradition. The event was meant to honour and celebrate the significance of languages in our lives- their beauty and diversity. This was done by hosting inspiring speeches from the chief guest, **Mr. Ramesh Korde, HOD of Hindi** at DY Patil School, Akurdi and our enthusiastic students along with an open mic event open to all.

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RESEARCH PUBLICATIONS

SCIE indexed paper published by Dr. Surendra D. Barewar, Mahesh Joshi, Pravin O. Sharma, Pritam S. Kalos, Balaji Bakthavatchalam, Sandesh Chougule, Khairul Habib Sandip K. Saha 2023," Optimization of jet impingement heat transfer.

A review on advanced techniques and parameters, Thermal Science and Engineering Progress, Volume 39, 2023, 101697, (Elsevier, SCI Index, IF: 4.56)

Dr. Sandeep D Pande published Q1 journal Operational Research in Engineering Science: Theory and Applications, in "Design and Analysis of Rule-Based Fuzzy Logic Controller for performance enhancement of the Sugarcane Industry."

Book Chapter

- Published Book Chapter by Rashmi Mahajan, Dipti Sakhare and Rohini Gadgil, "Review of Artificial Intelligence Applications and Architectures", Publisher: Wiley, Scrivener, ISBN: 9781119857297.

OTHERS

1. "Sports Fiesta 2023" Event was organized by MESA (Mechanical Engineering Student Association (MESA) in collaboration with the MIT AOE Chess Club, Under the guidance of Mrs. Mayuri Pokharna, Dr. Aniket Nagargogje and our Dean SMCE Dr. Abhijeet Malge sir, This was a two-day event held on the 13th and 14th of January 2023.

2. Rotaract club of MITAOE in alliance with the Rotary Club of Pimpri Elite, dictated by International Rotary foundations had been installed. School of Mechanical Engineering hosted this event on 08.02.2023 at Time:3.00 pm to 5.00 pm.

3. Mr. V. P. Kulkarni arranged a guest lecture by Mr. Prem Nair (Fleet Management, Hongkong) on "Career in Merchant Navy" on 17th February 2023 for SY & TY B. Tech students.

4. Ms. R. K. Shastri arranged an online Guest lecture for the First Year A division on "Engineering Graphics and its Applications" on 18th Feb 2023 from 9 am-10:30 am. by Mr. Sudarshan Gajare, VJTI, Mumbai.

5. Mr. V. P. Kulkarni arranged a guest lecture by Dr. Niranjana Humbad, USA on "recent trends in NVH" on 8th February 2023 for TY BTech students.

6. Mr. Dilip Panchal, Ms. N. B Chaudhari, Mr. Amol J. Asalekar, Dr. Aniket Nagargogje and Dr. Ganesh Shete attended the "Industrial Visit at Science Park, Chinchwad" on 12th Feb 2023 organized for FY BTech students and SY BTech students of Mechanical Engineering.

7. Girlsript club has organized Code Velocity for all students of MITAoE on 17th Feb 2023.

"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

Purna Sukhramani

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Bhushan Bembale

Milan Sagdhara

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