

"To develop skilled and quality Mechanical Engineering Professionals for catering technical and societal needs"

DEPARTMENT OF MECHANICAL ENGINEERING

December, 2023

Academic Year 2023-24



Message from Head of the Department

Welcome and best wishes to all the friends of the Department who receive this Newsletter. It has been an interesting and busy semester for members of the Department.

This Newsletter is an attempt towards the achieving Motivation. The newsletter which is being rolled out today marks the launch of a sparkling activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution.

The newsletter is one of the ways in which we can disseminate information on the life of the Department.

I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.

-Dr. Anjali Joshi (HoD Mech)

Editor's View

This Newsletter also gives an opportunity to our student and staff to spotlight their insights, ideas and innovations and to show how this can be applied in almost any organization. The success of this newsletter depends on your response. I would appreciate your feedback.

-Prof. Rohit P. Polas

-Prof. Naresh B. Dhamane

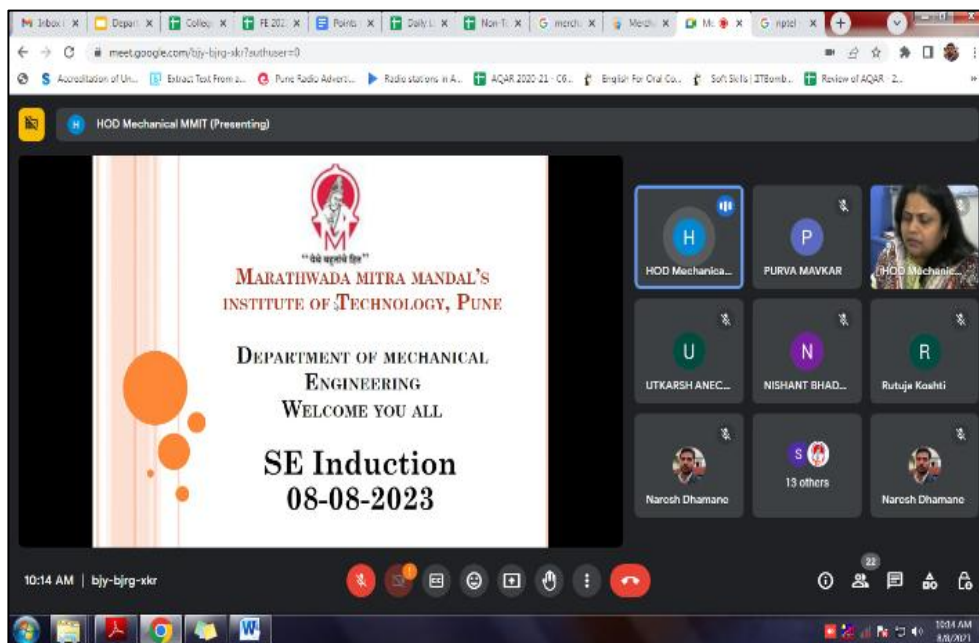
-Chetan Meshram

-Satvik Dongare



SE INDUCTION PROGRAMME

SE students Induction program conducted in online mode on 8th August, 2023. Students were introduced to the department and various activities conducted at the department.



RESULTS DECLARED CONGRATULATIONS TO TOPPERS !!!

Sr. No.	Class	NAME	CGPA
1	BE	CHINCHOLI BHAGESH	8.94
2	BE	MUJAWAR SAMIR	8.82
3	TE	CHAVAN SHUBHANGI	8.76
4	TE	BIRAJDAR AJAY	8.57
5	SE	ALLAMWAR SAINATH	6.95
6	SE	CHANGBHALE YOGESH	6.82

FACULTY PARTICIPATION IN NATIONAL LEVEL FDP

Dr. Girish Allampallewar and Prof. Eknath Kurhe participated in ISTE Approved One Week National Level FDP in Faculty Development Program on "Recent Advances in Mechanical Engineering " (RAME-23)" from 24th to 28th July 2023, organized by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune

RESEARCH PAPER PUBLICATION

- ❖ Dr. Anjali Joshi published paper in Spatial Information Research under title “Spatio-temporal attention based real-time environmental monitoring systems for landslide monitoring and prediction”
- ❖ Dr. Anjali Joshi published paper in Journal of the ACM under title “ Fusion-Based Representation Learning Model for Multimode User-Generated Social Network Content”
- ❖ Prof. Amol Bhanage Published Paper on “Analysis for Optimum Design of Automotive Flywheel” in THE INDIAN JOURNAL OF TECHNICAL EDUCATION (UGC)

Analysis for Optimum Design of Automotive Flywheel

Chinmay Dhande

Amol Bhanage, Sudhir More

Marathwada Mitra Mandal's Institute of Technology
Lohgaon, Pune, Maharashtra

ABSTRACT

A flywheel is a rotating mass that stores inertial energy and limits speed fluctuation in pivoting machine motors. A double mass flywheel utilizes two turns and is connected by a damping unit for increased stability. The geometry of the flywheel (cross-area), rotational speed, and material strength are integral perspectives that need to be considered when designing them. In addition to considering the mass minute of idleness, the system can become drowsy and inert when too much idleness is produced, as well as losing energy over time when the amount of idleness is too small. Because of this, along with rotational speed, there is an extremely profound amount of stress on the flywheel. This was solved by using ANSYS simulation software. It discusses ponderations on the analysis of stresses, strains, and misshapening induced by flywheels using inactive basic and modal examinations. A conclusion about the ideal flywheel design was reached based on the results of this study.

KEYWORDS: ANSYS, Dual mass flywheel, Optimum design, Static structural.

INDEPENDENCE DAY CELEBRATION

All students and teaching and non-teaching staff enthusiastically participated in the celebration of Independence Day on 15th August 2023 in institute premises

EXTENSION ACTIVITIES - MERI MAATI MERA DESH

"Meri Maati Mera Desh", with the tagline 'Mitti ko naman, veeron ka vandan', is a nationwide and people led "Jan bhagidari" initiative to commemorate 75 years of India's independence. It is the finale of Azaadi ka Amrit Mahotsav program. 'Meri Maati Mera Desh' celebrates the many achievements of the nation. It involves paying tribute to the 'Veers' who protect our nation. Department students and teaching and non teaching staff have enthusiastically participated in the MERI MAATI MERA DESH Campaign initiated by Govt of India.

EXTENSION ACTIVITES - BLOOD DONATION CAMP HELD ON 14 AUGUST 2023

Prof. D. P. Yesane & Prof. N. B. Dhamane from staff and several students has voluntarily participated in a blood donation camp held on 14 August 2023 on the occasion of 11th Death Anniversary of Hon. Late Vilasraoji Deshmukh, Ex. President Marathwada Mitra Mandal Trust Pune.

INDUSTRY VISITS

BE Mechanical Students Visited at Sai Wheels Charholi as part of curriculum of Dynamics of Machinery

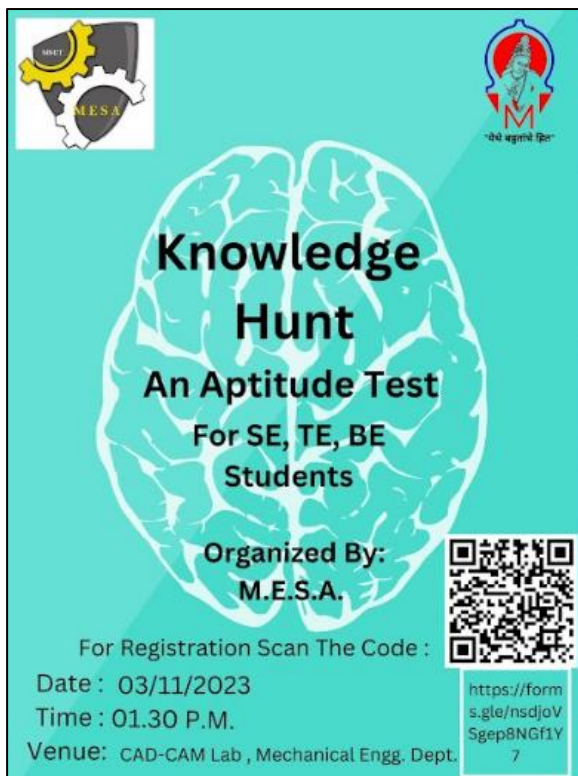


BE Mechanical Students Visited at Lashkar Water Pumping Station and Annabhau Sathe Cultural Hall under curriculum of Turbo machinery & Heating Ventilation and Air Conditioning Subject.



SE Mechanical Students visited at Katraj Dairy, Katraj, under curriculum of Engg Thermodynamics Subject.

MESA ACTIVITIES



A Mechanical Engg. Students Association (M.E.S.A.) organized “Talent Hunt Aptitude Test” for SE, TE & BE Mechanical Engineering Students on 3rd November 2023.



The Mechanical Engg. Students Association (M.E.S.A.) organized “Poster Making Competition” on theme “Technological Advances in Engineering” on occasion of “Engineer’s Day” on 15th September, 2023.

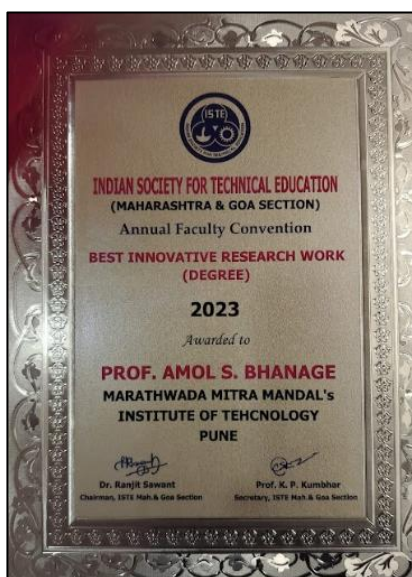
EDUSKILL MEET CONCLAVE AT GOA



Prof. S. S. More and several other faculties from our institution have attended EDUSkill Conclave from 18 to 20 Nov 2023 held at Goa. It is a meet of the Academics, AICTE personals and Industry person. It was intended to understand the gaps between industry and academia and ways to revolve it.

75th GRAND CELEBRATION OF HON. BHAUSAHEB JADHAV, EX. PRESIDENT, MARATHWADA MITRA MANDAL

All the teaching and non-teaching faculties of department have participated in 75th Birthday Celebration of Hon. Bhausaheb Jadhav, Ex. President, Marathwada Mitra Mandal Trust held at Balghandharv Rangmandir, Pune on 4th Nov 2023.

HONORS & AWARDS

Prof. Amol Bhanage Honoured with the prestigious Best Innovative Research Work (Degree Level) ISTE Maharashtra-Goa Section Awards 2023.



Prof. Daya Yesane Honoured with prestigious Best Social Work (Samvedna Foundation) for doing excellent social work in AJARA , MADILAGE , Kolhapur.

Acknowledgement

We, the Authors and Department of Mechanical Engineering would also like to express sincere gratitude to Tushar Awhale, Swapnil Salunke, the Newsletter committee members, for exceptional dedication in completion of this Newsletter. All the members played a vital role in data collection and the drafting of this Newsletter. We truly appreciate their efforts.

Impossible is for the unwilling.

Marathwada Mitra Mandal's Institute Of Technology, Lohgaon Pune was established in 2008 and conducted the following Courses leading to Bachelor's Degree in Engineering 1.Computer Engineering 2. Mechatronics Engineering 3. Mechanical Engineering 4. Civil Engineering. All these courses are approved by All India Council for Technical Education, (AICTE) New Delhi, sanctioned by Govt. of Maharashtra and affiliated to Savitribai Phule Pune University. The Marathwada Mitra Mandal Society, Pune was established in 1963.

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