



The newsletter of Department of Mechanical Engineering

MECHPULSE

Academic Year 2025-26 Term I

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Our Inspiration

**Shri Shahu
Chhatrapati Maharaj
President, AISSMS**



From Principal's Desk:



DR. D S Bormane

I'm glad to signify that with conclusion of this year academic year, AISSMS College of Engineering has completed 30 grand years of its establishment. It gives me immense indulgence to promulgate that last year our institute had been accredited with Grade A+ by national Assessment and Accreditation Council (NAAC).

AISSMS COE as an outcome of academic excellence achieved, is again and again producing University gold medalists and top rankers in different branches of engineering. Faculty is dynamically involved in research and development.

The teaching program also gives emphasis on practical approach through industry-institute interaction. College organizes various Symposia, Workshops, Conferences and national level students' symposium and exposition 'AISSMS Engineering Today', Cultural Event like Shivanjali and Inter collegiate event named Ashwamedh every year which are a grand success. College has high participants in Sports as well as Cultural Activities.

It gives me enormous feat to present in front of you 'MECHPLUSE' Mechanical Department Newsletter. I want to congratulate Mechanical Department for dynamic activities in pandemic circumstances. I wish all the best to the aspiring students, employers and all other stake-holders in Mechanical Department achieving their goals.

"Science can amuse and fascinate us all, but it is engineering that changes the world."

FROM EDITORS DESK....

It gives us great pleasure to hand over to you "MECHPLUSE" the news letter of Mechanical engineering department.

The department runs two undergraduate programs viz. Mechanical Engineering, Mechanical Engineering (Sandwich) and PG program in Design Engineering as specialization. Department also run research Centre leading to Ph.D. Program. The department vision is to be excellence in value based on Mechanical Engineering Education.

Mechanical Engineering Sandwich pattern programme emphasizes on industrial training to students within four years of the study. Students are placed for training in the industry as per the curriculum of Savitribai Phule Pune University. The student learns industrial practices and also professional ethics.

MECHPLUSE is platform to communicate and underline department actions towards students development. Hope you will find this news letter informative. Your suggestions for improvement in the newsletter are welcome.

Editors

FROM HODs DESK....



A hearty welcome to the Department of Mechanical Engineering at AISSMS College of Engineering, Pune. The department has well qualified and dedicated faculty. The department strives to Impart knowledge and training of the highest standard.

The objective of the department is to prepare students for a successful career in Industry, Research and Academics to meet the needs of growing technology. The department has well qualified and dedicated faculty. The department strives to Impart knowledge and training of the highest standard. The objective of the department is to prepare students for a successful career in Industry, Research and Academics to meet the needs of growing technology. Students showcase their talent in various sports and intercollegiate technical events and bag prizes. Our graduates are working in Multinational Companies, Defense Services, and Academic Institutions in India and abroad. Last but not least our Technical supporting staff is unique in its own way. Students, as well as visitors, find them very friendly, amicable and highly intelligent!

BE STUDENTS 2025-26



STAFF ACHIEVEMENTS

- ❖ **Dr N N Gotkhindikar** has been NPTEL exam Topper 5% aspirant with Gold Medal Nov 2025
- ❖ Dr. D Y Dhande has completed all 8 NITTR modules
- ❖ Introduction of Students club Chapter **Institution of Engineer Mechanical Engineering** by Dr C S Choudhari
ISHRAE by Dr S A Ansari
FPSI by Mr. G P Lohar

DEPARTMENT VISION

- To be recognized as a premier centre in the field of Mechanical Engineering Education.

DEPARTMENT MISSION

- To strive continuously for an advancement of academics and lifelong learning through effective teaching learning process.
- To strengthen industry-institute interface, association with professional societies to develop leadership, team work and industry oriented attributes through internship.
- To develop skill based mechanical engineering professionals for sustainable development through project based learning and active research. Department Goals

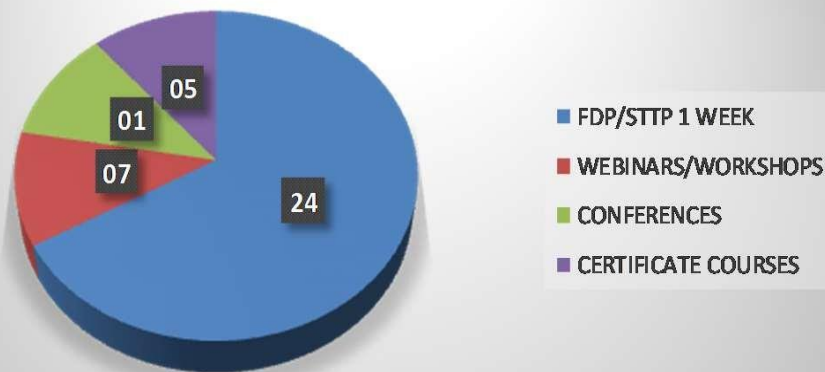
SHORT TERM GOALS

- To enhance interaction with industry
- To strengthen association with professional bodies
- To establish a research centre
- To increase number of value added courses
- To modernize laboratories.

LONG TERM GOALS

- To establish centre of excellence.
- To improve the qualification of faculties
- To help students for academic excellence to reach global standards.
- To maximize entrepreneurship development activities.
- To obtain accreditation from reputed bodies

Faculty contribution



STAFF PUBLICATIONS

Sr. No.	Faculty Name	Publication Detail	Year
1.	Dr M R Phate	Potato research (WOS) Q2	2025
2.	Dr M R Phate	International Journal of Machinability and Materials	2025
3.	Dr M R Phate	Manufacturing and Critical Analysis of Al/SiC/Coconut and Bagasse Ash MMC using Dimensional Analysis and Feed Forward Back –Propagation Neural Network	2025
4.	Dr M R Phate	Design and Performance Evaluation of Mechanical Chronometer with Variable Time Delay Arrangement for Safe Evacuation of Mining Workers Using Soft Computing.	2025
5.	Choudhari, N., Dhande, D.Y.	Bimetallic Insert Casting Approach to Minimize Porosity and Improve Reliability of Aluminium Swing Arm	2025
6.		A Study on Steel Insert Integration for Porosity Reduction in Aluminium High-Pressure Die Castings	2025
7.	Onkar A. Dhumal, C S Choudhari	Comprehensive characterization and analysis of superabsorbent polymers for dehumidication systems: insights from polynomial regression, BET analysis, and FTIR	2025
8.	Ganesh Gamane, C S Choudhari	Topology Optimised Design for Additive Manufacturing	2025
9.	V R Patil	Influence of Lower Blends of Algae Biodiesel on Diesel Engine Performance and Emissions	2025
10.	Dr S H Wankhade	Evaluating the Efficiency of Micro End Mill Tools and Performance Metrics in Micro Milling	2025
11.	Dr S H Wankhade	Center drill geometry mapping in friction drilling of Aluminium 6063 using artificial neural network approach	2025
12.	Dr. S A Ansari	Performance Evaluation of Paraffin Wax as Phase Change Material in a Horizontal Cylindrical Thermal Energy Storage Unit	2025
13.	Dr M S Deshmukh	Investigation of Femur Head Implant Wear and Fatigue Properties for Climbing Upstairs and Climbing Down Stairs Without Rail Support	2025

DEPARTMENTAL ACTIVITIES



Students Presenting Technical Paper in the Paper presentation Competition

INDUSTRY INTERACTION



MOU signed with PRITOMATIC TECHNOLOGIES INDIA PVT. LTD.PUNE

Three-day Certified workshop on "ANSYS and CFD



Judges from The Various industries for the Technical Paper competition



INDUSTRIAL VISITS



AWARDS AND RECOGNITION



OTHER ACTIVITIES



DEMONSTRATION OF AIRCRAFT MODEL AND DRONE at Vishwabharti English Medium School, Dhayari, Pune

Social Activity of Visiting at SWAMI NIVAS Vhriddhashram, Pune

Social Activity of Sponsoring Lunch and Serving Them at The Poona School For Blind Girls