



The newsletter of Department of Mechanical Engineering

MECHPULSE

Academic Year 2025-26 Term II

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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 ACHIEVEMENT

- **Dr. A V Waghmare** has completed all 8 NITTR modules.
- **Dr. S H Wankhede** has participated in ICTIEE, 8 to 10 Jan 2026 GITAM and actively involved in Indo Universal Collaboration for Engineering Education Foundation
- **Dr. M R Dahake** has achieved Best Paper Award at IETE and ISF Congress by Adani University, Ahmadabad.

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

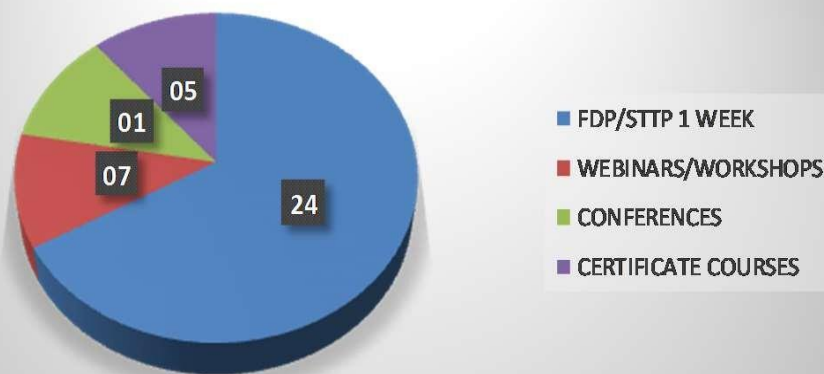
SHORT TERM GOALS

- 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	Integrated Grey Relational Analysis and Adaptive Neuro-Fuzzy Inference Based Approach for Mechanical Evacuation Timer Performance Analysis : Application in Mining Worker Safety Evacuation	2026
2.	Dr M R Phate	Precision Engineering of Mine Safety Timers: Multi-Objective Optimization of Pin Pallet Escapements Using Neuro-Fuzzy Systems	2026
3.	Dr M R Phate	Design, Development, and Performance Evaluation of Mechanical Time Delay Mechanism Integrated with Material Handling System for Effective Potato Quality Testing and Sorting	2026
4.	Dr M R Dahake	An Adaptive Energy Efficient Regenerative Braking Control Systems in Electric Vehicle	2026
5.	Yogesh B Karandikar	International Research Journal of Innovations in Engineering and Technology - IRJIET	2026
6.	Dr S V Chaitanya	HHO cell for Two Wheeler	2026
7.	Dr S V Chaitanya	Performance Analysis of Load Cell–Based Carbon and Oil Weighing System	2026
8.	Dr S V Chaitanya	Quality Assurance and Manufacturing Processes related to Steering Column Components	2026
9.	Dr S.J.Navale	Experimental investigation on banana root-derived bioethanol for spark-ignition engine applications: Performance and emission characteristics	2026
10.	Dr S.J.Navale	Simulation and virtual reality applications in medical training for tuberculosis diagnosis	2026
11.	Dr S.J.Navale	Efficient solving of partial differential equations with new numerical methods	2026
12.	Dr S.J.Navale	Mathematical models to optimize pandemic spread and control strategies in public health management	2026
13.	Dr D S Malwad	Experimental analysis of milled groove conformal cooling in injection molding	2026

DEPARTMENT ACTIVITIES



OVERALL BEST DEPARTMENT AWARD

This prestigious honor recognizes the department that has demonstrated outstanding performance across academics, innovation, cultural participation, and teamwork throughout the year.

INDUSTRY INTERACTION



MOU Signed with TECHCLUSTER Pune by Mr Abhijit Wanare (Director)



One Week Online ISTE Self Financed STTP/FDP on Green Hydrogen Technologies

INDUSTRIAL VISITS



AWARDS AND RECOGNITION



Team Resonance Racing Go-kart
Event organised by Morphines Motorsports series associated with Raftaar Gokarting Track, Pune.
Achievement : All India Rank 1, Best Endurance, Best Design Presentation, Best Ergonomics, Best Innovation, Skid pad- runner-up, Time trials- runner-up.



Mr Aaryan Patil Bagged Best Paper Award in ISF Congress 2026, Organized by IETE Ahmadabad Centre.

OTHER ACTIVITIES



Extension activity of donating grocery to Swaminivas old age home Kolwan, Poud with HOD Mechanical Dr M R Phate and Dr M R Dahake



Expert Lecture conducted on Monetizing Innovation- The Strategic Edge of IPR Careers by Dr Mahesh Jadhav from Intellect IPR Solution Pune.