



Sakeshwar Gramin Vikas Seva Sanstha's

**SAU. SUNDARBAI MANIK ADSUL
POLYTECHNIC**

Department of Mechanical Engineering

NEWSLETTER

2k24-25

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About Department

Mechanical Engineering is the backbone of innovation and industrial progress, bridging science and technology to create solutions that shape the modern world. The Department of Mechanical Engineering at our institute was established in 2010 with a vision to produce industry-ready professionals who excel in technical expertise and innovative thinking.

Our Department is powered by a team of highly qualified and experienced faculty, with a focus on nurturing globally competent professionals, the Department has established state-of-the-art laboratories equipped with the latest technologies and machineries. The curriculum is enriched with practical, hands-on training and designed to align with current industry standards and technological advancements.

The Department is dedicated to CAD/CAM, simulation and design projects, complemented by a well-equipped project lab exclusively for final-year students to work on innovative projects. Specialized training programs are available in areas such as CNC Programming, CAD/CAM and CATIA with dedicated labs featuring industry-standard software and hardware tools.

To make the curriculum more engaging and competitive, the Department organizes a variety of co-curricular activities, such as workshops, seminars and industrial visits. We have established hobby clubs and technical forums at both the institute and department levels to foster holistic development. The Mechanical Engineering Student Association (MESA) actively conducts events, and the Department houses student chapters of professional bodies like SAE (Society of Automotive Engineers).

These bodies regularly organize state and national-level competitions, including paper presentations, project exhibitions and design challenges. Workshops and training sessions cover cutting-edge topics like Industry 4.0, 3D Printing, Renewable Energy. With a focus on academic rigor, hands-on experience and industry interaction, the Department of Mechanical Engineering aims to shape future engineers who will drive technological advancements and contribute to societal growth.

Welcome



It gives me immense pleasure to share my thoughts on the growth and achievements of the Mechanical Engineering Department. Alongside a strong foundation in academics and discipline, our department has embraced various innovative practices to enhance student learning and development.

Our students possess remarkable talents and creativity, which we actively nurture through a variety of co-curricular and extra-curricular activities such as technical quizzes, design challenges, group discussions, debates, project competitions, CAD modeling contests and workshops on emerging technologies. These activities not only foster technical skills but also encourage teamwork, leadership, and critical thinking.

The department is supported by excellent infrastructure and a team of dedicated and highly qualified faculty who are committed to delivering quality education. We emphasize strong interaction among students, parents and staff, ensuring a collaborative environment that promotes growth and development. Our Training and Placement Cell plays a pivotal role in shaping the careers of our students, establishing strong industry connections, and ensuring promising opportunities for internships and placements.

I would like to congratulate my faculty members and students for their continuous hard work, creativity and sincere efforts that have contributed to the success of the Mechanical Engineering Department. Their commitment has been the cornerstone of our department's achievements and I am confident that they will continue to excel in all their endeavors.

I wish all of them great success in their academic and professional journeys and look forward to seeing them contribute significantly to the field of Mechanical Engineering.

PROF. JADHAV M. B.
Head of Department

Vision of Department

To be a premier department in mechanical engineering to serve the needs of industry and society.

Mission of Department

M1: To provide state-of-the-art facilities to impart quality education.

M2: To undertake various value-added and add-on courses to make students technically sound and thorough professionals.

M3: To collaborate with the industries and strive to instil the research and problem-solving attitude amongst students and faculty.

M4: To inculcate high moral, ethical values, and spirit of national pride amongst students and faculty.

Programme Educational Objectives (PEOs)

PEO1 To prepare Mechanical engineering graduate with standing knowledge of Mathematical, scientific, engineering, technology, management, humanities and Various other interdisciplinary subjects for successful career.

PEO2. To equip students with modern tools, technology and advance software's for deliberating Engineering solutions.

PEO3. To equip students with broad based knowledge to support the service industry, economic development and to address social and engineering challenges of nation

PEO4. To inculcate student with leadership skill with high level of integrity and ethical value for team building and team work

Program Specific Outcomes(PSO's)

PSO 1 : An ability to design solution for thermal, hydraulic systems, design components and production processes that meet the specified needs with team work and management skill for safety, societal and environmental aspects through lifelong learning.

PSO 2: An ability to use modeling and analysis software such as NX, Creo, CATIA, ANSYS, etc. technologies necessary for obtaining quick, economical and accurate solution of engineering problems.

PSO 3: An ability to design electromechanical and automation systems in multidisciplinary environments through better communication.

Program Outcomes (POs)

PO 1. Basic and Discipline Specific Knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO 2. Problem Analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO 3. Design/ Development of Solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO 4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO 5. Engineering Practices for Society, Sustainability and Environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO 6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO 7. Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

Laboratories



CNC



AEN & PER



MQC & MAC



TOM



CAD



IHP

Achievements

IDESSA 2024-25

S.N.	NAME OF PARTICIPANT	YEAR	EVENT/ GAME
1	GAVKHARE VAIBHAV	Third Year	KABADDI
2	KAWALE OMKAR	Second Year	CRICKET
3	KAWALE OMKAR	Second Year	KHO-KHO
4	KALHAPURE PRATHMESH	Second Year	SWIMMING
5	JADHAV ABHISHEK	First Year	KABADDI



Results

THIRD YEAR



1st

DHARASHIVKAR HEMANT ASHIRVAD



2nd

RANAWARE RUTIK HARIDAS



3rd

LANDE SAURABH RAJENDRA

SECOND YEAR



1st

UKANDE SARTHAK APPASAHEB



2nd

SAYYED NAWAJISH MUNIR



3rd

SHARMA ANKUSH SURAJKUMAR

FIRST YEAR



1st

SUPEKAR MANGESH SOMNATH



2nd

KOTKAR PRAJWAL RAJENDRA



3rd

JADHAV PRATIK LAXMAN

MOUs

S.N.	NAME OF COMPANY	DURATION
1	Suzlon Global Service Ltd., MIDC Supa	2024-25
2	Tara Motors, MIDC Supa	2024-25
3	Abhinav alloys Pvt. Ltd., MIDC Ahilyanagar	2024-25
4	THREADMASTER gauges and Tools Pvt. Ltd., MIDC Ahilyanagar	2024-25
5	P.C. Engineering, L-253, MIDC Ahilyanagar	2023-24
6	Akshar Industries ,MIDC Ahilyanagar	2023-24
7	N.S. Engineering ,MIDC Ahilyanagar	2023-24
8	Abhinav Alloys Pvt. Ltd., MIDC Ahilyanagar	2023-24
9	Adarsh Gaon, Hiware Bazar	2023-24



Expert Lectures

S.N.	Name of Expert	Topic
1	Mr. Krunal Jagtap	Intellectual Property Rights
2	Prof. D. S. Phapale	Industry 4.0
3	Er. Rohan K Gandhi	Entrepreneurship Development - Startup
4	Dr. Sambhaji Pathare	Engineering Materials and Science



Our college, hosted an insightful expert lecture on *Engineering Materials and Science*, delivered by **Dr. Sambhaji Pathare**. With his vast knowledge and experience, Dr. Pathare provided a comprehensive understanding of material properties, selection criteria and their applications in modern engineering. The session was highly engaging, offering students valuable insights into advancements in material science and its role in various industries. The lecture concluded with an interactive Q&A session, where students had the opportunity to clarify concepts and discuss real-world applications.

We recently organized an expert lecture on *Industry 4.0*, delivered by **Prof. D. S. Phapale**. The session provided a deep dive into the latest advancements in automation, IoT, AI and smart manufacturing technologies shaping the future of industries. Prof. Phapale highlighted the importance of digital transformation, data-driven decision-making and the integration of cyber-physical systems. Students gained valuable insights into the evolving industrial landscape and its impact on career opportunities. The session concluded with an engaging discussion, encouraging students to explore innovative solutions for the industry.

Industrial Visits

S.N.	NAME OF COMPANY	VISIT LOCATION
1	Suzlon Global Service Ltd.	MIDC Supa
2	Tara Motors	MIDC Supa
3	Abhinav alloys Pvt. Ltd.	MIDC Ahilyanagar
4	THREADMASTER gauges and Tools Pvt. Ltd.	MIDC Ahilyanagar



Tara Motors



Suzlon Global Service Ltd.



THREADMASTER gauges and Tools Pvt. Ltd.



Abhinav alloys Pvt. Ltd.

Publications

SR. NO	NAME OF STAFF	TITLE	NAME OF JOURNAL
1	MR. JADHAV M. B.	Tribological Investigation of PTFE filled composite with varying percentage of MoS ₂ in bearing application	IJAR SCT
2	MR. KHANDIZOD S. S.	Experimental Analysis of Tribological Properties of Aluminium 6061-A1203-TiO ₂ MMC	IJSREM
3	MR. KHANDIZOD S. S.	Comparative Analysis of Two Wheeler Suspension Helical Compression Spring for Steel and Composite Material at Different Loading Conditions	IRJMETS
4	MS. AVHAD S. N.	Structural Analysis of composites under variable loading conditions	JEITSM



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Approved by : All India Council for Technical Education (AICTE), New Delhi

Approved by : Directorate of Technical Education (DTE), Mumbai

Affiliated to : Maharashtra State Board of Technical Education (MSBTE), Mumbai

COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration of Course
Computer Engineering	150	3 years
Mechanical Engineering	60	3 years
Electrical Engineering.	60	3 years
Electronics and Telecom. Engineering	60	3 years
Civil Engineering	30	3 years
Total	360	

