

**Department of Mechanical Engineering
(NBA ACCREDITED)**

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FROM HOD'S DESK

It is my great pleasure to be a part of Marathwada Mitra Mandal's Polytechnic, a place where every student, faculty and staff members matters and each one has an important role to play for the development of institute. Mechanical Engineering is one of the broadest and oldest branch of engineering. It is provided with the design, control, manufacturing, operation and maintenance of mechanical systems. The department is provided with sufficient resources components, well qualified & experienced faculties. The labs at the department are well equipped. With the vision that every student will be a future efficient engineer, the institute arranges a variety of activities and programmes like expert lectures, industrial visits, cultural and sports programme etc. to sharpen the skills and to develop abilities while stretching the student's potential to excel.

Mr. P.M. Dumbre
HOD
Mechanical Engineering Department

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ABOUT DEPARTMENT

Mechanical Engineering is the key in wealth creation by converting raw material into finished goods. The value of the material increases when it undergoes several processes, operations and treatments. Department of Mechanical Engineering is committed to serve this noble cause for better living of our people, by providing them with highly competent Engineers to lead in Automobile sector, Manufacturing industries, Energy conservation, Agricultural implements, Robotics, Computer aided design and manufacturing, industrial automation etc. The Mechanical Engineering Department established in year 2008 with intake of 60. The Department has highly qualified and experienced faculties. Most of the faculties are post graduates. The department is having well equipped in-house developed laboratories, departmental library, classrooms with projectors and workshop with good infrastructure. The department has always strived for bridging the gap between industry and institute. The department has strong interaction Industry Institute Interaction (III). Under the III the department has signed MOU with ANAND Automotive Ltd, The Institute of Tool Engineering (ITE), Rubicon Barclays, Kuuality –Innovative engineering for the value addition to the students. Department has active implementation of VLCI, a process to strengthen the Indian Industry

DEPARTMENTAL GOALS

- ❖ Sound theoretical knowledge
- ❖ Hands-on laboratory skills
- ❖ Adequate computational skills
- ❖ Appropriate industrial exposure
- ❖ To enhance the overall academic performance of students
- ❖ To aim at placement of maximum number of students

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VISION

To excel as one of the leading departments in imparting quality education in Mechanical engineering and help students to be excellent professionals and worthy citizens

MISSION

To provide top quality education with balance of theoretical and practical knowledge through effective teaching learning method

To provide constructive environment with opportunities in association with industry, where students can learn, apply and enhance their skills in mechanical engineering

To develop students' professional skills and mould them into productive citizen.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Ability to solve technical problem individually or as a team in the field of mechanical engineering

PEO2: Apply creative and innovative idea translating into working model, prototypes

PEO3: To lay a firm foundation of basic knowledge and practical skills for higher education, professional skills for industry

PROGRAM SPECIFIC OUTCOMES (PSOs):

PSO1: Maintenance of Equipment & Instruments: Maintenance of equipment instruments related to mechanical engineering

PSO2: Modern Software Usage: Use knowledge of simple design, drafting manufacturing , Maintenance and documentation in latest mechanical engineering related software

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THE RESULT OF DEPARTMENT – SUMMER 2023

CLASS	OVERALL RESULT
<i>First Year</i>	28.07%
<i>Second Year</i>	76.19%
<i>Third Year</i>	90.91%

FIRST FIVE TOPPERS

SR.NO.	CLASS	RANK	STUDENT NAME	PERCENTAGE
1	ME1K	1st	RAUL MANSI DEEPAK	83.87%
		2nd	PAWAR SUMIT DATTATRAY	81.02%
		3rd	TAIGOR VIKRAMSING LAKHANSING	79.99%
		4th	SWARAJ SACHIN BARKUND	76.03%
		5th	DHIWARE ARJUN SANJAY	74.32%
2	ME3K	1st	PANDIT NIRAJ AJIT	84.25%
		2nd	KULKARNI GEETA LAXMAN	82.00%
		3rd	KHARAT MAHESH PARMESHWAR	81.00%
		4th	GUJALE SANKET ANIL	80.38%
		5th	SALVE ABHIJEET SANJAY	80.25%
3	ME5I	1st	SAMRUDDHI ANIL AHER	89.44%
		2nd	SAWANT TUKARAM MOHAN	88.11%
		3rd	SAKPAL KOMAL YASHWANT	83.89%
		4th	DHUMAL SHAMBHU PANDURANG	83.67%
		5th	AKSHAY NARAYAN JADHAV	82.67%

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GUEST LECTURES

Class: SYME Date: 09/10/2024

Place: Seminar Hall

Class: SYME / TYME Date: 30/09/2022

Place: Seminar Hall



Guest Lecture on Exploring future of Electric Mobility

Guest Lecture on Blue Print to Become A Design Engineer

Class: SYME / TYME Date: 14/10/2022

Place: Class Room

Date: 24/11/2022

Class: SYME / TYME



Guest Lecture on Introduction to PPE. Its Principles.

Guest Lecture on Alternative Fuels Components and Working

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INDUSTRIAL VISITS

Class: TYME

Date of Visit: 04/10/2024

Place of Visit: Sairam Engraving & Laser making, BHOSARI



Industrial Visit at Sairam Engraving & Laser making

Class: TYME

Date of Visit: 30/07/2024

Place of Visit: FMCIII,MMCOE CAMPUS



Industrial Visit at FMCII

Class: TYME

Date of Visit: 04/10/2024

Place of Visit: KAS Industries, MIDC, BHOSARI



Industrial Visit at KAS Industries

Class: SYME

Date of Visit: 07/10/2024

Place of Visit: Shree Sant Tukaram Sugar Factory, Kasarsarai



Industrial Visit at Shree Sant Tukaram Sugar Factory

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WORKSHOP / TRAINING

Class: TYME

Date: 26/09/2024- 28/09/2024

Topic: HVAC & R Workshop

Class: TYME

Date: 20/09/2024

Topic: Global Quality Management Workshop



HVAC & R WORKSHOP



Global Quality Management Workshop

Our Achievers

Third year Mechanical Engineering Student Sanket Gujale Secure Second Rank in Quiz Competition held during HVAC & R Workshop at PCCOE & R, Pune



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MOU AND ITS SCOPE

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH (IISER)

Indian Institute of Science Education and Research (IISER) through the Maharashtra State Development of Educators and Enhancement in Delivery (MS-DEED) Program supported by the Maharashtra State Faculty Development Academy (MSFDA)

The aim of collaboration is-

Improving the quality and engagement of faculty in the preparedness for NEP 2020

Excelling the teaching fraternity for effective and outcome-oriented classroom and lab engagement

Helping the teachers with skills in areas of scientific inquiry and problem solving

Motivating the teachers to imbibe critical thinking abilities among their students

Improving individual output for sustainable development of the teacher community

THE INSTITUTE OF TOOL ENGINEERING (ITE)

To motivate, support and guide students for identification, development and commercialization of their innovative ideas from conceptual stage in the field of engineering courses

To provide the resource personnel for workshops, expert lectures, competitions at institute

To support for technical / Non-technical events organized

To provide the resource person and guidelines to conduct training programs on various aspects of skill development, on job training, entrepreneurship relevant to industries

IIM BANGALORE THROUGH MIJSC

MIJSC would train the faculty in skills to identify the flow barriers and also give the inputs on soft skills which are as consultants

MIJSC will facilitate the delivery of Japanese Learning Conversational Competency Program using the service of partnering agencies

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RUBICON FOUNDATION

To provide necessary training as per training program requirements and curriculum for delivery

To provide suitable faculties for the training exclusive for classroom training/virtual training

To conduct assessment of its own and also arrange external assessment as required

STAFF ACHIEVEMENTS

Sr. No.	Staff Name	Title of the course	Organizing Institute	Date	Duration	FDP/ Course Completed
01	Mr.P.M.Dambre	Industry 4.0 and A.I in Manufacturing Industry	MSBTE	14 th -18 th October,2024	05 Days	10
		Microstation	MSBTE	2 nd -6 th December,2024	05 Days	
02	Mr. A.G. Dandge	INDUSTRY 4.0	Digitech Engineers	10 th -12 th June 2024	03 Days	17
		Introduction to industry 4.0 & Industrial Internet of Things	RIT,Pune	24 th -26 th June 2024	03 Days	
		Introduction on Basics of AUTOCAD	MVP Nashik	18 th -20 th September 2024	03 Days	
		Innovative reaching learning practices in Engineering	RIT,Pune	3 rd -5 th October 2024	03 Days	
		Microstation	MSBTE	2 nd -6 th December,2024	05 Days	
03	Mrs. A.A.Tikle	Innovations in Robotics and UAVs	VNR VJIET	30 TH July -3 rd August,2025	05 Days	10
		Advances in Manufacturing	VNR VJIET	15 th -19 th July	05 Days	

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04	Ms.A.G.Haral	Cyber Security and ethical hacking	DR.D.Y.PATIL College of Engineering, Pune	26 th -30 th August, 2024	05 Days	7	
		Recent Trends & Future of solar PV Technology	M M Polytechnic, Pune	4 th -5 th October 2024	02 Days		
05	Mr.P.S.Mohite	Industrial automation for Mechanical Engineer	MSBTE-Pimpri chinchwad Polytechnic, Pune	10 th -14 th February,2025	05 Days	06	
		The basic concept of Solar Energy	Alision	6 th March 2025	01 Day		
06	Mr.K.S.Jadhvar	The basic concept of Solar Energy	Alision	7 th March 2025	1 Day	01	
07	Mrs. R.R. Jadhav	The basic concept of Solar Energy	Alision	7 th March 2025	1 Day	01	
08	Mr.S.P.Kulkarni	Lean Manufacturing Practices Conclave	IIM,Banglore	15 th -17 th 2024	03 Days	03	

SPORT ACTIVITY

On the occasion of National Sports day on 29th August 2025, various sports competitions are arranged like Push ups, Skipping, Burpees, Standing broad jumps, Squats etc. for students.

Sr.No.	Name of Student	Sport/Events	Rank
1.	Onkar Chavan	Push-Ups	I
2.	Vaishnavi Tawade	Push-Ups	II
3.	Onkar Chavan	Standing Broad Jump	III
4.	Vaishnavi Tawade	Standing Broad Jump	IV
5.	Vaishnavi Tawade	Squats	III

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CO-CURRICULAR ACTIVITY

TYPE OF ACTIVITY	NAME OF PARTICIPATING STUDENT	ORGANIZING BODY & INSTITUTE	AWARD
Paper Presentation	Waghmare Rashtrapal Dahale Krishna	MSBTE	Participation
Welding Workshop	SY Students	Autocluster	Participation
HVAC Workshop	TY Students	PCCOE &R, Pune	Participation
Global Quality Management Workshop	TY Students	Mechanical Department- MM Polytechnic	Participation
Internet Of Things Workshop	TY Students	Mechanical Department- MM Polytechnic	Participation
VLCI Training	SY Students	Mechanical Department- MM Polytechnic	Participation