

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

PRINCIPAL
MRS. G.S. JOSHI

HOD
MR. P.M. DUMBRE

CHIEF EDITOR
Ms. A.G. HARAL

EDITORIAL COMMITTEE
MR. A.G. DANDGE
MRS. R.R. JADHAV
MRS. A.A. TIKLE
MR. P.S. MOHITE
MR. S.P. KULKARNI
MRS. K.S. JADHVAR
MR. R.V. PATIL
MR. B.A. SUTAR
MR. R.A. WAGHMARE
MS. S.B. GANGARDE

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

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



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

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

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

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

THE RESULT OF DEPARTMENT –WINTER 2024

CLASS	OVERALL RESULT
<i>First Year</i>	25.42 %
<i>Second Year</i>	43.86%
<i>Third Year</i>	66.67%

FIRST FIVE TOPPERS

SR.NO.	CLASS	RANK	STUDENT NAME	PERCENTAGE
1	ME1K	1st	PRATYANCH PATIL	79.18%
		2nd	BHARMAL SANSKAR	78.82%
		3rd	TAMBE PRANAV	77.29%
		4th	MANE SATYAJIT	77.18%
		5th	MOHD NUMAIR NAUSHIR SHAIKH	73.26%
2	ME3K	1st	SWARAJ SACHIN BARKUND	85.78%
		2nd	PRAJAPATI RAMU RAJENDRA	85.56%
		3rd	PAWAR SUMIT DATTATRAY	84.11%
		4th	TAIGOR VIKRAMSING LAKHANSING	82.44%
		5th	SALIMATH ASHWITH RAHUL	80.44%
3	ME5I	1st	GUJALE SANKET ANIL	85.62%
		2nd	PANDIT NIRAJ AJIT	85.33%
		3rd	MAHULKAR AADITYA JAYGURU	84.95%
		4th	TAWDE VAISHNAVI AMBADAS	84.76%
		5th	KULKARNI GEETA LAXMAN	83.14%

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

GUEST LECTURES

Class: SYME / TYME

Date: 08/02/2025

Place: Seminar Hall



**GUEST LECTURE ON TOPIC-ENTREPRENEURSHIP DEVELOPMENT –
creativity and innovation**

INDUSTRIAL VISITS

Class: TYME

Date of Visit: 15/03/2025

Place of Visit: MSRTC Central Workshop,Dapodi

Class: TYME

Date of Visit: 29/03/2025

Place of Visit: Waste to Energy Plant,Moshi



INDUSTRIAL VISIT AT MSRTC Central Workshop



INDUSTRIAL VISIT AT Waste to Energy Plant

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

Class: TYME

Date of Visit: 05/03/2025

Place of Visit: B.U.Bhandari Service Station,Wakad

Class: SYME

Date of Visit: 05/02/2023

Place of Visit: Pune Bhat Metals,MIDC,Chinchwad



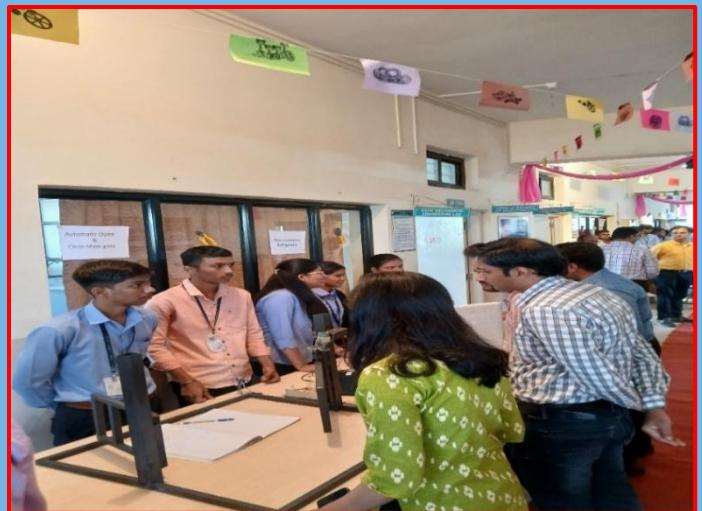
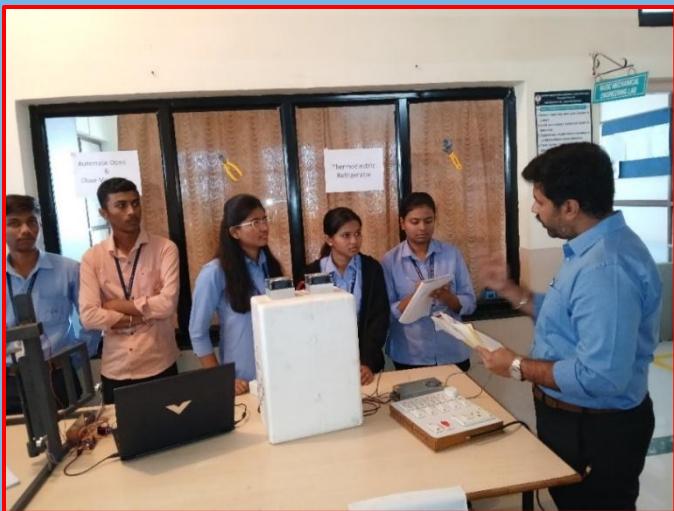
INDUSTRIAL VISIT AT B.U.Bhandari Service Station



INDUSTRIAL VISIT AT Pune Bhat Metals

TECHNOFEST 2K25

State level Technical Event held on 15th February 2025, at M M Polytechnic, Thergaon, Pune. Participants from various colleges participated in this state level event. Event includes Project competition (still and working model), Gaming and Coding, Poster Presentation. Judges from various industries invited for judging.



STATE LEVEL PROJECT COMPETITION HELD ON 15TH FEBRUARY 2025

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

Our Achievers

Students from SY AND TY Mechanical Engineering participated in intercollegiate competition and showcase their talents in various intercollegiate competitions.



HEARTY CONGRATULATIONS TO SECURE A SECOND RANK IN CAD WAR COMPETITION HELD AT ZEAL MMIT, PUNE POLYTECHNIC, PUNE ON DATED 5th FEBRUARY 2025



HEARTY CONGRATULATIONS TO SECURE A SECOND RANK IN CAD WAR COMPETITION HELD AT ON DATED 28th MARCH 2025



HEARTY CONGRATULATIONS TO SECURE A SECOND RANK IN STATE LEVEL PROJECT COMPETITION HELD AT M M POLYTECHNIC, PUNE ON DATED 15th FEBRUARY 2025

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

CAMPUS DRIVES

Date:08/03/2025

Name of Company:-Piaggio Vehicles Pvt.Ltd,Baramati

Date:22/03/2025

Name of Company:-Elixir-India and 1K2K Dosing Pvt Ltd



PLACEMENT RECORDS

Sr. No.	Name Of Student	Company Name	Highest Package Per Anum
1.	Ajay Arvind Shinde	1.Bharat Star Services Pvt. Ltd,Mumbai 2.Bosch Chassis Systems Pvt. Ltd	4,19,000
2.	Abhijeet Sanjay Salve	1.1K2K Dosing and Dispensing Private Limited. 2.Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd 4. Minda Corporation Limited - Spark Minda Group	3,13,707
3.	Mahesh Parmeshwar Kharat	1. Elixir-India, Chakan, Pune 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd 4. Piaggio Vehicles Pvt Ltd., Baramati, Pune	3,13,707
4.	Sanket Gujale	1. Enkei Wheels (India) Limited, 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd 4. Yazaki India Pvt Ltd, 5.Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,76,000
5.	Adarsh Ashok Naik	1. Enkei Wheels (India) Limited 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd	2,76,000

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

6.	Gaurav Ramesh Babar	1. Enkei Wheels (India) Limited 2. Minda Corporation Limited - Spark Minda Group 3. Gilbarco Veeder-Root 4. Bosch Chassis Systems Pvt. Ltd	2,76,000
7.	Nagnath Balaji Waghmare	1. Enkei Wheels (India) Limited 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd	2,76,000
8.	Kisan Vyankatesh Pawar	1. Enkei Wheels (India) Limited 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd	2,76,000
9.	Sarthak Dattatraya Mohalkar	1. Enkei Wheels (India) Limited 2. Bosch Chassis Systems I. Pvt. Ltd	2,76,000
10.	Vaibhav Gangaram Karnure	1. Enkei Wheels (India) Limited 2. Bosch Chassis Systems I. Pvt. Ltd	2,76,000
11.	Yogesh Shivaji Gaikwad	1. Alpha Dies and Pattern (India) Pvt. 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems I. Pvt. Ltd 4. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,68,000
12.	Prathmesh Santosh Pawar	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd 3. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,40,000
13.	Geeta Laxman Kulkarni	1. Mahindra Auto Steel Ltd 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems Pvt. Ltd 4. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,52,000
14.	Ankita Sarangadhar Jadhav	1. Mahindra Auto Steel Ltd 2. Gilbarco Veeder-Root 3. Bosch Chassis Systems Pvt. Ltd	2,52,000
15.	Niraj Ajit Pandit	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd 3. Yazaki India Pvt Ltd	2,40,000
16.	Vaishnavi Ambadas Tawde	1. Minda Corporation Limited - Spark Minda Group	

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

		2. Gilbarco Veeder-Root 3. Bosch Chassis Systems Pvt. Ltd 4. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,40,000
17.	Trupti Amlesh Vishwakarma	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd 3. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,40,000
18.	Amit Dilip Alte	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd 3. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,40,000
19.	Aadarsh Shivaji Mule	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
20.	Aaditya Jayguru Mahulkar	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
21.	Aniket Sandipan Kamble	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
22.	Dyanesh Sudam Shelke	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
23.	Krishna Ratnakar Dahale	1.. Bosch Chassis Systems Pvt. Ltd 2. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,28,000
24.	Pranav Popatrao Pawar	1.. Bosch Chassis Systems Pvt. Ltd 2. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,28,000
25.	Prathmesh Dipak Borse	1. Bosch Chassis Systems Pvt. Ltd 2. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,28,000
26.	Rashtrapal Ankush Waghmare	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
27.	Vitthal Sanjay Ankushe	1. Gilbarco Veeder-Root 2. Bosch Chassis Systems Pvt. Ltd	2,40,000
28.	Aditya Jijaba Sutar	1.Bosch Chassis Systems Pvt. Ltd	2,28,000
29.	Onkar Dhananjay Chavan	1. Minda Corporation Limited - Spark Minda Group 2. Bosch Chassis Systems Pvt. Ltd 3. Piaggio Vehicles Pvt Ltd., Baramati, Pune	2,40,000

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

30.	Rushikesh Kamble	1.Bosch Chassis Systems Pvt. Ltd	2,28,000
31.	Shweta Bhimrao Mujmule	1.Bosch Chassis Systems Pvt. Ltd	2,28,000
32.	Uday Umakant Waghmare	1.Bosch Chassis Systems Pvt. Ltd	2,28,000
33.	Ashwini Lalasaheb Kanade	1.Bosch Chassis Systems Pvt. Ltd	2,28,000
34.	Komal Janardhan Kalal	1.Bosch Chassis Systems Pvt. Ltd	2,28,000

SPORTS COMPETITION

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

Zonal & State Sports Competition Organized by INTER-ENGINEERING DIPLOMA STUDENTS SPORTS ASSOCIATION (IEDSSA) for diploma Engineering students.



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

Sr. No.	Name of Student	Type of Competition	Sponsoring Authority	Level	Venue	Date	Remark
01	Shreyash Kale	Football	MSBTE	D2 Zona I	AISSMS Pune	24.01.2025	Participation
02	Pratyanch Patil	Football	MSBTE	D2 Zona I	AISSMS Pune	24.01.2025	Participation
03	Aditya Sutar	Kabaddi	MSBTE	D2 Zona I	Eknath Divekar College of Pharmacy, Pune.	28.01.2025	Participation
04	Pranav Tambe	Kho-Kho	MSBTE	D2 Zona I	Eknath Divekar College of Pharmacy, Pune.	28.01.2025	Participation
05	Shubham Lokhande	Volleyball	MSBTE	D2 Zona I	Marathwada Mitra Mandal's Polytechnic, Thergaon, Pune.	28.01.2025	Participation
06	Gajanan Gore						
07	Harshad Shelar						
08	Pratyanch Patil						
09	Shyam Shinde						
10	Rakesh Pawar						
11	Aditya Sutar	Cricket	MSBTE	D2 Zona I	AISSMS Pune	13.02.2025 to 17.02.2025	2 nd
12	Prathmesh Dalimbkar						
13	Adarsh Mule						
14	Pravin Kalshetti						
15	Dnyanesh Shelke						

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

16	Onkar Chavan							
17	Dilip Ippili	Athletics (800m)	MSBTE	D2 Zona I	Sanas Ground, PVG's MIPT, Pune.	27.02.2025	Participation	
18	Dilip Ippili	Shot-Put						
19	Dilip Ippili	Athletics Relay						

CO-CURRICULAR ACTIVITY

TYPE OF ACTIVITY	NAME OF PARTICIPATING STUDENT	ORGANIZING BODY & INSTITUTE	AWARD
CAD WAR Competition	Neha Kamble	Zeal Polytechnic,Pune	2 nd
CAD WAR Competition	Vaishnavi Dangade	MMIT,Pune	2 nd
Project Competition	1.Gujale Sanket Anil 2.Babar Gaurav Ramesh 3.Pawar Prathmesh Santosh 4.Waghmare Nagnath Balaji 5.Alte Amit Dilip 6.Borse Prathmesh Dipak 7.Waghmare Rashtrapal Ankush 8.Mahulkar Aaditya Jayguru 9.Mohalkar Sarthak Dattatraya 10.Pandit Niraj Ajit 11.Pawar Kisan Vyankatesh 12.Salve Abhijeet Sanja	JSPM,Tathwade,Pune	Participation
Project Competition	1.Gujale Sanket Anil 2.Babar Gaurav Ramesh 3.Pawar Prathmesh Santosh 4.Waghmare Nagnath Balaji 5.Alte Amit Dilip 6.Borse Prathmesh Dipak 7.Waghmare Rashtrapal Ankush 8.Mahulkar Aaditya Jayguru	Pimpri Chinchwad Polytechnic,Pune	Participation

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

	9.Mohalkar Sarthak Dattatraya 10.Dahale Krishana Ratnakar 11.Chavan Omkar Dhananjay 12.Shelake Dyanesh Sudam 13.Sutar Aditya Jijaba			
Project Competition	1.Gujale sanket anil 2.Babar gaurav ramesh 3.Pawar prathmesh santosh 4.Waghmare nagnath balaji	New Institute of Technology,Kolhapur	Participation	

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

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

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

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 &	RIT,Pune	24 th -26 th 2024	03 Days	

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

		Industrial Internet of Things				
		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	Industrial automation for Mechanical Engineer	MSBTE- Pimpri chinchwad Polytechnic,Pune	10 th -14 th February,2025	05 Days	16
		Solar Energy –Solar Technology and its use worldwide	Alision	12 th March 2025	01 Day	
		Innovations in Robotics and UAVs	VNR VJIET	30 TH July -3 rd August,2025	05 Days	
		Advances in Manufacturing	VNR VJIET	15 th -19 th July	05 Days	
04	Ms.A.G.Haral	The Basic Science of Metallurgy	Alision	4 th March 2025	1 Day	08
		Cyber Security and ethical hacking	DR.D.Y.PATIL College of Engineering, Pune	26 th -30 th August, 2024	05 Days	
		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

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