

Department of Mechanical Engineering

FROM HOD'S DESK

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HOD
MR. P.M. DUMBRE

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MR. A.G. DANDGE

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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



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

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

THE RESULT OF DEPARTMENT –WINTER 2022

CLASS	OVERALL RESULT
<i>First Year</i>	21.70 %
<i>Second Year</i>	13.21 %
<i>Third Year</i>	16.13 %

FIRST FIVE TOPPERS

SR.NO.	CLASS	RANK	STUDENT NAME	PERCENTAGE
1	F.Y.M.E.	1st	KULKARNI GEETA LAXMAN	77.00 %
		2nd	PANDIT NIRAJ AJIT	76.00 %
		3rd	LOHAR SANCHITA SANDEEP	72.43 %
		4th	SAWANT PARINITA DATTATRAYA	68.43 %
		5th	VISHWAKARMA TRUPTI AMLESH	67.43 %
2	S.Y.M.E.	1st	SAMRUDDHI ANIL AHER	78.84 %
		2nd	SUJATA PRADIP CHALKE	72.63 %
		3rd	NUPUR PANKAJ KOLTE	70.32 %
		4th	AKSHAY NARAYAN JADHAV	70.00 %
		5th	CHHAYA PANDURANG JADHAV	69.47 %
3	T.Y.M.E.	1st	GULUNJKAR SOHAM SANTOSH	80.76 %
		2nd	BADIGAR OMKAR GIRISH	77.81 %
		3rd	CHIMATE SONALI SAKHARAM	77.14 %
		4th	WAGHMARE SHRUSHTI VITTHAL	75.91 %
		5th	CHALKE TEJAL TANAJI	71.05 %

Department of Mechanical Engineering

GUEST LECTURES

Class: SYME / TYME

Date: 05/09/2022

Place: Seminar Hall



Class: SYME / TYME

Date: 30/09/2022

Place: Seminar Hall



Guest Lecture on Latest Trends In Mechanical Engineering

Class: SYME / TYME

Date: 14/10/2022

Place: Class Room



**Guest Lecture on Introduction to PPE Its Principles,
Components and Working**

Guest Lecture on Blue Print to Become A Design Engineer

Class: SYME / TYME

Date: 24/11/2022

Place: Class Room



Guest Lecture on Alternative Fuels

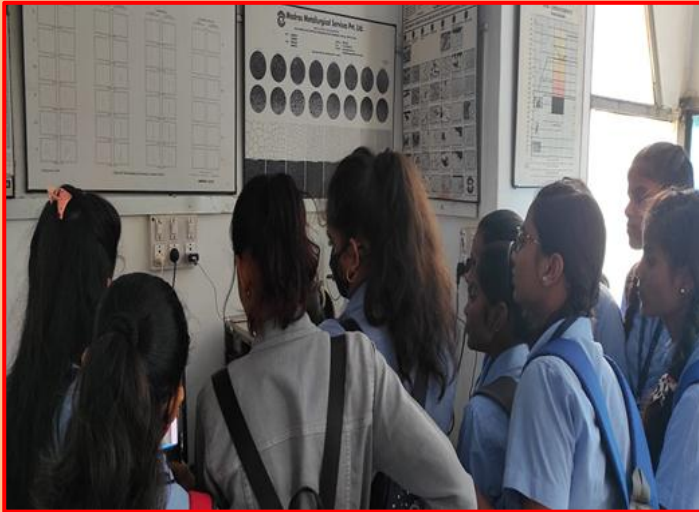
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INDUSTRIAL VISITS

Class: SYME

Date of Visit: 27/09/2022

Place of Visit: Jyoti Heat Treatment, Bhosari



Industrial Visit at Jyoti Heat Treatment

Class: SYME

Date of Visit: 27/09/2022

Place of Visit: NDT LABS, BHOSARI



Industrial Visit at NDT Labs

Class: SYME /TYME

Date of Visit: 26/11/2022

Place of Visit: Sant Tukaram Sugar Factory, Kasarsai



Industrial Visit at Sant Tukaram Sugar Factory

Class: TYME

Date of Visit: 15/11/2022

Place of Visit: Auto Cluster, Pimpri



Industrial Visit at Auto Cluster

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WORKSHOP / TRAINING

Class: TYME

Date: 22/08/2022- 25/08/2022

Topic: Life Skill Training Program- Rubicon Barclays



LIFE SKILL TRAINING PROGRAM- RUBICON BARCLAYS

Class: SYME / TYME

Date: 02/11/2022

Topic: VLCI Workshop

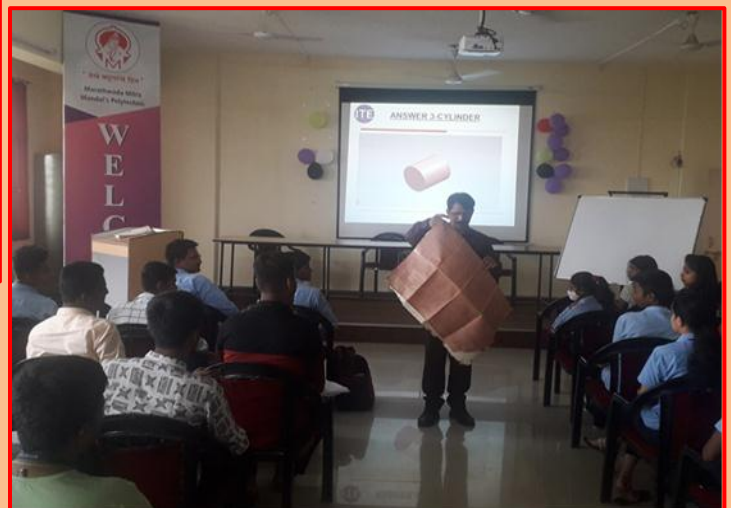


**VISIONARY LEARNING COMMUNITY OF INDIA (VLCI)
WORKSHOP**

Class: SYME / TYME

Date: 02/11/2022

Topic: Tool Design Training



TOOL DESIGN TRAINING

Department of Mechanical Engineering

MESA INAGURATION AND POSTER COMPETITION



MESA INAGURATED BY HON. CHIEF GUEST MR. GOPAL BHOSALE, HON. PRINCIPAL MRS. GEETA JOSHI, MRS. P.S. PATIL



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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

TRAINING ACTIVITIES LANNING

Sr. No.	Topic	Methodology	Learning Objectives	Duration (Hrs)
1	Expectation Setting	Role play	To learn Industry expectations from freshers	01
2	Ice braking	Introduction	To know more about the trainer & candidates	01
3	Organizational Struture	Case Study	To learn organizational structure	02
4	SWOT Analysis	Free speech	To identify their strength/Weakness/Opportunities/Threat	02
5	Corporate Jargons	Presentation	To learn most commonly used words in corporates	01
6	Public Speaking	Extempore	To eliminate stage fear	02
7	Presentation Skills	Power point presentation	To articulate your thoughts through power point presentation	02
8	E-mail Etiquette	Presentation/Mock E-mails	To learn E-mail writing skills	02
9	Grooming	Presentation/Do's & Don'ts/Role play	Dress to impress/ Proximity/ Personal hygiene	02
10	Body language	Role play	To learn positive body language	01

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11	Telephone Etiquette	Role play/ Mock Calls	To handle telephonic round of interview/ To learn call mechanics	02
12	Group Discussion	Group activity	To access candidates' public speaking skills	01
13	Personal Interview	Mock Interviews	To perform well during interviews	04

STAFF ACHIVEMENTS

SR. NO.	Staff Name	Title of the course	Organizing Institute	Date	Duration	FDP/ Course Completed
01	Mr.P.M.Dumbre	Introduction to pedagogies for college teachers	MS-FDA	5 th -7 th January,2023	3 Days	01
02	Mrs.P.S. Patil	Lean Management	Skill Up	12 th September,2022	1 day	03
		Communication Skill	TCS Ion	9 th – 13 th September,2022	5 day	
		Introduction to Soft skill	TCS-ION	13 th – September,2022	1 Day	
03	Mr. A.G. Dandge	Advances in Quality Control	VVPITE, Loni	21 st - 25 th February, 2023	5 Days	06
		Lean Management	Skill-UP	9 th September,2022	1 Day	
		Introduction to the Six-Sigma	Skill-UP	25 th September,2022	1 Day	
		Introduction to the soft skill.	TCS-ION	12 th -24 th September,2022	12 Days	
		Communication Skill	TCS-ION	12 th - September,2022	12 Days	
		Introduction to project management.	Skill-UP	8 th September,2022	1 Day	
04	Mr. S.N. Jadhav	Recent Advancement in Material micro	D.Y.Patil Institute of	13 th – 17 th March,2023	5 Days	02

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		manufacturing and characterization	Technology pune			
		Innovation, Research and IPR journey towards excellence	BVBs Sardar Patel college of engineering Mumbai	1 st -5 th March, 2023	5 Days	
05	Mrs. U.P. Shaha	Sensitization on Innovation and Cutting edge Technologies	Maharashtra State Faculty Development Academy	14 th -29 th November, 2022	15 Days	06
		Supply chain Management	Great Learning Academy	9 th September 2022	1 day	
		Project Management Course for Beginners.	SKILL-UP	11 th September 2022	1 day	
		Communication Skill	TCS-Ion	12 th September 2022	1 day	
		Introduction to the soft skills.	TCS-Ion	15 th -19 th September 2022	5 day	
		Quality Management	Great Learning Academy.	21 st -25 th September 2022	5 day	
06	Mr. P.K. Sakhare	Sensitization on Innovation and Cutting edge Technologies	Maharashtra State Faculty Development Academy	14 th -29 th November, 2022	15 Days	06
		Introduction to the Six-Sigma	Skill-UP	9 th September,2022	1 Day	
		Communication Skill	TCS-Ion	12 th September 2022	1 day	
		Principles Management	Great Learning Academy	15 th September 2022	1 day	
		Smart English Basics of Professionals.	Great Learning Academy	21 th September 2022	1 day	
		Types of Cyber Security	Great Learning Academy	25 th September 2022	1 day	

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07	Mrs. R.R. Jadhav	Communication Skill	TCS-Ion	12 th September 2022	1 day	02
		Introduction to project management.	Skill-UP	8 th September,2022	1 Day	
08	Mrs. A.P. Padve	Introduction to project management.	Skill-UP	8 th September,2022	1 Day	03
		Introduction to Artificial Intelligence.	Skill-UP	9 th September,2022	1 Day	
		Introduction to Soft skill.	Skill-UP	12 th -13 th September,2022	2 Day	

SPORT ACTIVITY

Sr. No.	Name of Student	Type of Competition	Sponsoring Authority	Level	Venue	Date	Remark
01	Komal Y. Sapkal	Athletics (Running)	MSBTE	D2 Zonal	Yerwada Sankul	8/11/2022	Paticipation
02	Samarth M. Bhosale	Vollyball	MSBTE	D2 Zonal	YSPM Polytechnic, Satara	13/11/2022	Paticipation
03	Abhishek S. Kapse						
04	Gaurav D. Devankar						
05	Omkar G. Badigar						
06	Balaji S. Rathod						
07	Girish N. Mahajan						
08	Sahil A. Pawar						
09	Pranav P. Pawar	Kho-Kho	MSBTE	D2 Zonal	College of Pharmacy, Varvand, Daund	15/11/2022	Paticipation
10	Krushna M. Dhotre						
11	Aditya Sutar						

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12	Omkar G. Badigar	Football	MSBTE	D2 Zonal	AISSMS Pune	16/11/2022	Participation
13	Girish N. Mahajan						
14	Dnyanesh S. Shelke						
15	Darshan B. Landge	Cricket	MSBTE	D2 Zonal	YSPM Polytechnic Satara	22/11/2022	Participation
16	Omkar D. Chavan						

CO-CURRICULAR ACTIVITY

TYPE OF ACTIVITY	NAME OF PARTICIPATING STUDENT	ORGANIZING BODY & INSTITUTE	AWARD
Poster Presentation	Soham Santosh Gulunjakar	Mechanical Department- MM Polytechnic	Participation
	Sonali Sakharam Chimate		
	Depali Ramchandra Chalake		
Life Skill Training Program	SY & TY Students	Rubicon Barclays	Participation
VLCI Training	SY & TY Students	Mechanical Department- MM Polytechnic	Participation
Tool Design Workshop	SY & TY Students	Mechanical Department- MM Polytechnic	Participation