

Space for Innovation

-To be truly innovative, mechanical engineers need tools, equipment's, and space to realize their biggest ideas.

The Department of Mechanical Engineering provides cutting-edge facilities and well equipped labs for students to express their creativity, but these facilities also allow students to do so on their own .

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Vision

“To provide latest technical education in the field of Mechanical Engineering with professional skills and human values.”

Mission

- To enhance teaching learning process by strengthening Industry Institute interaction.**
- To develop highly motivated professional engineers.**
- To involve students in extracurricular activities for the benefit of society.**

From HOD's Desk



The Department intends to provide practical industry based technical and professional education to the students. In addition to academics, the department strives for the holistic development of students by arranging various activities like workshops, seminars, industrial visits. Students are trained in various Industry related software's like CATIA, Creo-3.0, AutoCAD and The Mechanical Department also provides placements in reputed companies such as NRB Bearings, Bajaj, Bosch, Serum India, Siemens, Pasco Steels, Tata Motors, Greaves Cotton, Piaggio, Endurance, Perkins, etc, to take competitive advantage and for better job opportunities.

We have excellent laboratory facilities. Systematically designed curriculum, and dedicated faculty members make this Department a dynamic place to study. The Department is mainly supported by the Central Workshop facilities for providing hands-on training in the conventional machining, CNC Machines, Non traditional machine like LBM and other traditional trades like Smithy, Fitting, Forging, Welding, Machining, Foundry and Pattern Making.

Prof. Bhalekar B. D
HOD
Mechanical Engineering Dept.

Editor's Message



It gives me an immense pleasure in presenting you with the first Issue of our Newsletter of Volume 3. It has been an interesting and busy semester for the department. This Newsletter focus on the achievements of faculties and students, Social aspects as well as responsibilities of the department. And leads to the way for fulfilling Vision and Mission.

Prof. Parbhane U.M
Lecturer
Mechanical Engineering Dept.

Leadership is the capacity to translate Vision into reality

- Werren Bennis

Mechanical Engineering Faculties



HOD
Prof. Bhalekar B. D



Dean Academic
Prof. Siddiqui J. A



Workshop Supt.
Prof. Lahane U. S



Lecturer
Prof. Lokavar V. L



Lecturer
Prof. Nagre G. P



Lecturer
Prof. Shingare R. P



Lecturer
Prof. Parihar A. A



Lecturer
Prof. Bankar N. D



Lecturer
Prof. Khan A. H



Lecturer
Prof. Ghule P. K



Lecturer
Prof. Parbhane U. M



Lecturer
Prof. Kakde D. V



Lecturer
Prof. Kadam S. S

Faculty Achievements



“Experimental Investigation of Aluminum 7075 Using Dry, Wet and MQL Condition”

Prof. Bankar N.D There have been continuous efforts in developing technology in metal cutting and cutting fluids due to increasing demands for high productivity so increasing cutting speed and feed rate. Due to increasing speed and feed rate temperature near the cutting zone will increase and tool life will be decreased. Conventional cutting and lubrication process is general practices in manufacturing industry for reducing temperature and friction in between tool and work piece. The use of vegetable cutting fluid in machining process has economic benefit and minimizes environmental impact and safety to employees. It play very important role in enhancing the machining performance, handling and disposed in proper way. These paper reports on the effect of different lubricant method apply when



“Experimental Study of Vegetable Grade Cutting Fluid on Machining Aluminium 7075 using MQL ”

Prof. Bankar N. D. Micro-machining is the basic technology of micro-engineering. It is widely used in manufacturing industry because its capability, reliability. Machining with conventional flood lubrication system is a general practices in day to day life in the manufacturing industries for reducing friction, temperature and cutting resistance. The research aimed to evaluate the performance of vegetable grade as a cutting fluid with carbide end mill and ball mill tool in machining of aluminium 7075 material with dry and MQL condition. In micro-machining material removal rate and surface roughness are the important aspect in research and development because it greatly influences production rate, quality and cost. The analysis of the results show that surface roughness obtained during Engraving of Aluminium 7075 with Minimum quantity lubrication less compared to dry machining with vegetable cutting fluid in machining process has economic benefit and minimizes environmental impact. These paper reports on the effect of different lubricant method apply when AL7075 alloy is machined.

A dream becomes a goal, when action is taken toward its achievement.

Faculty Training



Prof. Kadam S. S Lecturer in Mechanical Engineering department MGM's Polytechnic Aurangabad Had participated in 02 days Training Program on “**E– Yantra Robotics**” Organised by IIT Bombay, at MGM's College of Engineering Nanded. From 02 August to 03 August 2019.

Points Covered under the training were - Introduction to Robotics, Design and development of robotic arms and different joints. Introduction to Embedded systems . Introduction to Electrical and Electronics parts related to Robotics.



Prof. Bhalekar B. D. H.O.D Mechanical Engineering department MGM's Polytechnic Aurangabad Had participated in 03 days Training Program on “**Faculty Enablement Program**” Organised by JNEC Aurangabad, From 16 January to 18 January 2020.

Points Covered under the training were - Soft skills development, Application of different teaching methods, Development of faculty student relations and different teaching aids used in teaching.



Prof. Bankar N. D. Lecturer in Mechanical Engineering department MGM's Polytechnic Aurangabad Had participated in 03 days Training Program on “**Aircraft Engineering and Manufacturing** ” Organised by MSBTE Mumbai, at Hindustan Aeronautics Ltd (HAL), Nasik. From 26 August to 30 August 2019.

Points Covered under the training were - Introduction to aircraft engineering and Design. Information regarding aircraft assembly and manufacturing methods. Aircraft assembly and materials required for manufacturing.



Prof. Bhalekar B. D. H.O.D Mechanical Engineering department MGM's Polytechnic Aurangabad Had participated in 03 days Training Program on “**Basic Diesel Fuel Injection System** ” Organised by BOSCH India Pvt. Ltd., at MGM's Polytechnic College Aurangabad of Engineering Nanded. From 02 August to 03 August 2019.

Points Covered under the training were - Introduction to introduction to basic diesel fuel injection system. Introduction to Advance diesel fuel injection system and, Vehicle Diagnosis using KTS– 590. These were the modules covered under the training conducted.

“Education is not the Learning of the Focus, but the training of the mind to think”

Department Achievements

“Installation Ceremony of ISHRAE Student Chapter ”



INDIAN SOCIETY OF HEATING REFRIGERATION
AND AIRCONDITIONING ENGINEERS



Aurangabad Sub-chapter

INSTALLATION CEREMONY

OF
STUDENTS CHAPTER

20th
AUGUST
2019

MGM'S POLYTECHNIC AURANGABAD

DEPARTMENT OF MECHANICAL ENGINEERING:MGMPME

&

DEPARTMENT OF ELECTRICAL ENGINEERING:MGMPPE

ACHARYA VINOBA BHAVE HALL
MGM'S INSTITUTE OF MANAGEMENT,
MGM CAMPUS, N-6, CIDCO,
AURANGABAD.

by
MR. MIHIR SANGHAVI

(PRESIDENT - MUMBAI CHAPTER)

In the Presence Of

Dr. B M Patil

Principal, MGM's Polytechnic.

Technical Talk by

MR. RAUF D SHAIKH

(IMM PAST PRESIDENT - NASHIK CHAPTER)



Inauguration of Installation Ceremony of Student Chapter at MGM's Poly. By ISHRAE on 20 August 2019.

“The achievements of an organization are the results of the combined efforts of each individual”

Students Achievements

Result
Summer-2019



ABHISHEK DOIPHODE
93.12%(Third Year)



SANKET DANVE
87.63%(Second Year)



SHAIKH MD. YUNUS
91.33%(First Year)

MGM's POLYTECHNIC AURANGABAD Mechanical Department Placement Record

Sr. No	NAME OF COMPANY	DATE	NO OF STUDENTS	SALARY/Month
01	Forbes and Company waluj Aurangabad	18/03/2019	06	13230/-
02	Rambo Equipments A.Bad	04/10/2019	05	13800/-
03	Dhoot Transmission A.Bad	22/05/2019	05	9100/-
04	Bajaj Auto Ltd A.Bad	05/10/2019	03	11500/-
05	Varroc Engineering	12/04/2019	13	10300/-
06	Endurance PVT LTD	12/04/2019	05	10300/-
07	Duro Valve Varroc	12/04/2019	04	10300/-
08	John Deere Pune	13/03/2019	10	12500/-

Academic Year : 2018-2019

Lecture Talk /Workshop



MGM's Polytechnic Aurangabad
presents
Lecture Talk on
"Entrepreneurship Development"
In Collaboration With
"Maharashtra Centre for Entrepreneurship Development Aurangabad"

Contents:
Introduction To MCED
Role of MCED
Awareness Camp of MCED

Date and Venue:
17th Feb 2020
At: 11:00 A.M. At: Aaryabhata Hall JNEC Aurangabad

For more Details Contact: Respective Head of Department & Prof Siddiqui Javed: 8806258898 (Coordinator)



MAHATMA GANDHI MISSION



महाराष्ट्र उद्योजकता विकास केंद्र

"I train to create an impact"



Pankaj Mittal
Author of the Bestselling Novel "Thank god I'm Single Again"
Motivational Speaker | Soft Skills Trainer

Join him for
"Communication & Confidence Building Workshop"

Date : 13th Sep 2019
Time : 10:00 am to 5:00 pm
Venue : MGM's Polytechnic College, Aurangabad
Co - Ordinator : Prof Javed Siddiqui (Mob : 8806258898)

Note : Registration is Compulsory

One Day Workshop on "Enterpreneurship development " by MCEDA and "Communication and Confidence Building Workshop" by Pankaj Mittal



Lecture Talk for Second Year students Conducted by Mr. Uday Kulkarni Sir, on Personality Development and 5S, on 25 January 2020.



Lecture Talk for Second Year students Conducted by Mr. Mahesh Astaputre Sir, On "Solar Energy Conservation and Installation of Solar Plants" on 30 January

"A Presentation is a chance to share, not an Oral exam"

Industrial Visits



Industrial Visit, Organised by department for Second Year Students, to Lokmat Printing Press MIDC Shendra Aurangabad on - 22 January



Industrial Visit, Organised by department for Second Year Students, to Marathwada Auto Cluster, MIDC Waluj Aurangabad on 29 January 2020.

ISHRAE
Aurangabad Sub Chapter
Indian Society of Heating, Refrigerating and Air Conditioning Engineers & MGM's Polytechnic, Aurangabad
Department of Mechanical Engineering

Cream 'N' Joy
क्रिम एन जॉय

Presents Factory Visit to Cream 'N' Joy ICE CREAM Plant

Date: 15th Feb 2020 At 9:30 A.M

Venue -Gut No. 112, Karodi, Lasur Road, Tag & Dist Aurangabad-431 136 (MS) -

R.S.V.P.
Amol Gambhir (President) Dr. B.M. Patil (Principal)
Suresh Shinde (ISHRAE Member) Anil Patodi (Cream & Joy Ice Cream)
Bhalekar B.D. (HDD Mechanical) Nagre G.P (Faculty Coordinator)
Javed Siddiqui (Faculty Coordinator) 8806258898



Industrial Visit Organised by department for Third Year Students to Cream N Joy

“Sometimes Practicals are better than just listening”

Social Activities



Tree Plantation Done at Nirgudi, Khuldabad on 05 August 2019, By Departmental Staff and Students, Under the Activity Social Work.



“We make a Living by what we get, But we make a life by what we give”

Glimpses of Department



Our Recruiters



JOHN DEERE



BOSCH

SERUM



NRB BEARINGS



varroc EXCELLENCE

NHK NHK SPRING CO., LTD.



ENDURANCE Complete Solutions