



# Mech Mirror

Volume 3, Issue 1

Semester wise Newsletter  
Odd Term 2021-22 (July to December-2021)

## Mechanical Engineering Department Govt. Poly. Gondia

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Mr. R. P. Badole



### Inside This Issue:

- STTP
- Workshop
- Industrial Visits
- Expert Lectures
- Stakeholder Interaction
- Achievements & Awards

### Awards by Faculties



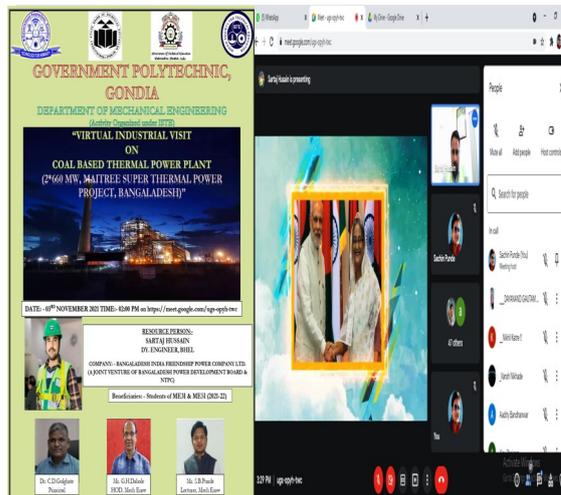
Faculty of Mechanical Engg. **Mr. Naresh W. Beseekar** has won **Best Paper Award** at All India Manufacturing Technology, Design & Research Conference held at PSG College of Technology, Coimbatore (TN) during 9-11 Dec 2021.

Also the **Ph.D was awarded** to **Dr. Jayant B. Khurpade** by Panjab University. The title of the thesis was **“Development and Performance Analysis of A Position Control System For Tool Manipulator”**

### STTP for Students on EV

Mechanical Engineering department has organised an one week STTP (Short Term Training Program) specifically for students of Mechanical Engg. on **“Electric Vehicle”** during 04-10-2021 to 14-10-2021. All the faculties of Mechanical Engineering department have delivered an expert talk. Electric Vehicles is the field that has deliberately grown momentum and it is now shaping the future. The primary objective of the STTP is to provide an opportunity for students to enrich their knowledge in the field of Electric Vehicles to cope up with the rapid changes in the technology. The gap between the academia and industry might be reduced by arranging these workshops and STTP programs.

### Virtual Industrial Visit



In order to aware the students about the coal based Thermal Power Plant, a virtual industrial visit was organized by Coordinator Mr. Sachin Punde at **“2x660 MW, Maitree Super Thermal Power Project, Bangladesh”** on 03/11/2021. Mr. Sartaj Hussain, Dy. Engineer, BHEL was the online resource person. Students from 5<sup>th</sup> and 3<sup>rd</sup> Semester were benefited.

## Offline Industrial Visit to “Mintech Robotics”



An offline industrial visit was organized on 14-12-2021 to “M/s Mintech

Robotics, Gondia” by Mr. Sachin Punde. This visit gives the exposure about the various aspects about the steps to be followed for 3D Printing, CNC Laser Cutting, Sortex Machine. PCB board making was also demonstrated by experts. The Director of the company Mr. Rajat Gautam guided about entrepreneur. The visit also explored about the various hardware architecture of robot, design aspects and its manufacturing. 78 students were benefited.

**Department of Mechanical Engineering**  
Government Polytechnic, Gondia (MS)  
Organiser:

**10th Dec-21**  
**One Day Hands-on Workshop on**  
**“Catia Modelling & 3D Printing”**  
Expert: Dr. Jayant B. Khurpade

Day: Friday 10<sup>th</sup> December 2021 at Government Polytechnic, Gondia (MS)  
Time: 11.30 Am to 1.30 Am

Topic: Catia Modelling & 3D Printing

**What you'll learn**

- Modeling in Catia Software
- Understand how a FDM 3D printer works
- Use “ slicing ” software to create great 3D Prints
- Create 3D prints
- Finish your 3D prints and make them look awesome
- Resources to awesome free 3D files for your 3D printer

**Who can attend:**

- Diploma Engineering student from Mechanical, Production, Automobile Engineering across Maharashtra

**How to attend!**

- Offline for existing student at GP Gondia
- Online for other diploma students by clicking following google meet link

**Google Meet Link:**  
<https://meet.google.com/psm-tyzj-tyzj>

**Coordinator:** Prof. B. B. Khurpade  
Assistant to Mech. Dept. (MS, Govt. Polytechnic, Gondia)

**Chairman:** Prof. G. S. Khurpade  
Mech. Dept., Gondia

**Member:** Prof. S. S. Khurpade  
Mech. Dept., Gondia

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One day State level Virtual workshop on: “Catia Modelling & 3D Printing” on 10<sup>th</sup> Dec 2021 was organised & conducted by Dr. J. B. Khurpade. About 142 students across the state participated through Google Meet and benefited. Catia modelling and CURA slicing software was taught.

The live demonstration was offered to the participants for sample printing of 3D component.

## Expert Lectures

Sr. No	Title of Lecture	Expert	Date
1	Webinar on Modelling in Creo	Prof. Ghanshyam Boob, St. VPCoE & T	7-10-2021
2	BS VI Emission Norms Implementation in Commercial Vehicle	Mr. Promad Nichat, PCRA	27-09-2021
3	Fuel Cell Electric Vehicle	Dr. G. V. Gotmare	13-10-2021
4	Skills & Personality Development Trends in Mechanical Engineering	Dr. Mudrika Ahmed, GP Nagpur	24-11-2021
5	BIW (Body in White) Manufacturing Process	Mr. Amol Bhagwat, CAMAU India Pvt. Ltd. Pune	21-10-2021
6	Python Overview & Career Opportunities for Mechanical Engineering	Prof. Ratnesh Choudhary, S. B. Jain Instt. Of Management & Research, Nagpur	13-12-2021
7.	Re-Energize Yourself	Ms. Surekha Bhagel, Life Coach, Gondia	17-12-2021

For fulfilling the curriculum gap and achieving the program outcomes experts lectures as per the table given have been organized by the department of Mechanical Engg. during the Odd semester 2021-22.

## Parent Meeting

Parent – Teacher meet was organized by the department on 25-11-2021 for strengthening the teaching learning process. Parent expressed concern about the disadvantages of online process.



The parents were made aware about the efforts taken by the faculties to improve the learning process. Various online ICT tools, live video streaming of practical's etc. were demonstrated to the parents.

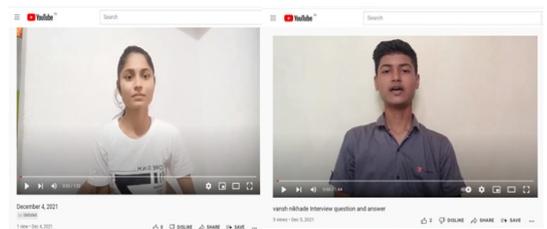
## State Level Technical Quiz Competition



A state level technical quiz competition was organized by department of Mechanical Engineering on 12-10-2021. An overwhelming participation of 322 were observed. Out of which 236 students attempted the quiz. Mr. Dhiraj Jalindar Shinde & Mr/ Ms Kajal S. Mishra from Government Polytechnic, Gondia has secured the First & Second rank respectively.

## Mock Interview Short Video Making Competition

For the enhancement of employability of students, a departmental level mock interview short video making competition was organized by Mechanical Engineering Department on 12-10-2021. An overall participation of 19 students were observed, out of which 15 students submitted their video.



## Alumni Meet – 2021 (ONLINE)



An online Alumni Meet was held on 20 June 2021 by the Alumni coordinator Mr. Rajan Badole. 40 alumni of Mechanical exchange their experience and views.

## Innovative Ideas incubated by students & faculties.



Thermal Lab faculty incharge Mr. Y. P. Nimje and Power & Ref. Lab faculty incharge Mr. S. B. Punde developed many demonstrative models required to carry the practical's and easy to understand. These models are prepared by the students under the guidance of respective lab incharges under the Microproject. This activity saved many tons of rupees.

## Laboratories Developed by Faculties

Department has developed 4 laboratories in the space provided in the Smithy workshop. These are Mechanical Engineering Measurement, Mechanical Engineering Materials, Industrial Engineering and Quality Control and Project Lab. The students will be able to utilise the facilities for carrying out activities related to capstone project, Micro project and final project.



## Entrepreneurship Visit



Under Entrepreneurship Development Cell visit to Tiara Technology, Gondia was organised with a view to offer the entrepreneurship exposure to the students of final year Mechanical engineering. One of the director had given information regarding how the company was developed.

## International Visitor



**Dr. Ashish Gadekar**, Professor and Dean of faculty of Management, Mauritius has visited the department of Mechanical Engg. on 18-12-2021. He was the keynote speaker in the Virtual International Conference (VICRM-2020) organised by the department. He discussed the educational policy of Mauritius & motivated the staff for the betterment of college.

## Social service by Staff & Students

The motivated staff & students of Mechanical Engineering donated blood to the Govt. B. G. W. Hospital Gondia under Health and ecosystem activities of the institute on 30th November 2021.



The students of department has participated in the grass planting activity in the sport ground of the institute. Thus the departmental staff including students are always extends their hands to the cause of social service.



## Internship/Industrial Training

As per the MSBTE Industrial Training Policy for students of 4th Semester, the students have to do 6week industrial training compulsorily. During the academic session 2020-21 departmental students undergone their Industrial training (Online) at CIPET, Chandrapur and Amrut Polyzone, MIDC, Gondia.



## Internal Revenue Generation (IRG)

The departmental faculties have carried out various testing activities such as Furniture Testing, Material & Instrument Testing for the different agencies of Gondia District. The revenue generated from these activities was deposited to the Government Account.



# Mechanical Engineering

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## **Vision of Program**

*To serve the Industries and Society by Imparting Technical Knowledge and Skills through the Mechanical Engineering.*

## **Mission of Program**

*M1: To impart technical knowledge and professional ethics by using modern engineering tools with supportive facilities.*

*M2: To inculcate ethical values and leadership qualities in societal and environmental context.*

*M3: To impart lifelong learning by modern management tools, experiments and practices.*

*M4: To fulfil industrial and societal needs by establishing interactions with industries and providing solutions through problem analysis, design and development of system.*

## **PEOs, POs, PSOs of Mechanical Engineering Program**

### **PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

**PEO1:** Provide socially responsible, environment friendly solutions to Mechanical engineering related broad-based problems adapting professional ethics.

**PEO2:** Adapt state-of-the-art Mechanical engineering broad-based technologies to work in multi-disciplinary work environments.

**PEO3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

### **PROGRAM OUTCOME (POs)**

**PO1: Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

**PO2: Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.

**PO3: 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.

**PO4: Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

**PO5: Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

**PO6: 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.

**PO7: Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

### **PROGRAM SPECIFIC OUTCOME (PSOs)**

**PSO1:** Modern Software Usage: Use latest Mechanical Engineering related Software's for simple Design, Drafting, Manufacturing, Maintenance and Documentation of Mechanical Engineering components and Process

**PSO2 :** Equipment and Instrumentation: Maintain Equipment and Instruments related to Mechanical Engineering

**PSO3:** Mechanical Engineering Processes: Manage Mechanical Engineering Processes by Selecting and Scheduling relevant Equipment, Substance, Quality Control Techniques, and Operational parameters