



# MECHAZINE

## DEPARTMENT OF MECHANICAL ENGINEERING Government Polytechnic, Mumbai

(An Autonomous Institute of Government of Maharashtra)  
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## Preamble

Purpose of this e-newsletter is to publish the major accomplishments during **odd term of academic year 2022-23**. The newsletter provides the glimpses of activities accomplished. This newsletter will certainly help to build the reputation of Mechanical Engineering department and will strengthen the relationship with stakeholders. It's the genuine attempt to encourage, & stimulate a positive response mainly to students and faculty members. Suggestions from various stakeholders are most welcome to make this magazine more accurate and presentable.

## Vision, Mission

### The Vision of Government Polytechnic Mumbai

Transform knowledge into work

### The Mission of Government Polytechnic Mumbai

We are committed to:

- Quality education for lifelong learning.
- Need based educational programmes through different modes.
- Outcome based curriculum implementation.
- Development and up gradation of standard laboratory practices.
- Promoting entrepreneurial programmes.

We believe in ethical, safety, environmental friendly practices and teaching learning innovations.

### The Vision of Mechanical Engineering Department

To promote sustainable development of students.

### The Mission of Mechanical Engineering Department

We are committed to:

- Implement need-based curriculum.
- Provide opportunity for lifelong learning through continuing education.
- Blend the latest technology with conventional practices through experiential learning.
- Enhance industry institute interaction.
- Promote entrepreneurial capabilities.

We believe in high ethical and moral values, safety and environmental friendly practices

## An Article for Everyone

### अमृत पर्व

भारत, आपली प्रिय मातृभूमी. या महान देशाच्या स्वातंत्र्याचा अमृत महोत्सव साजरा करण्याचे ऐतिहासिक भाग्य आपल्याला लाभले. विश्वातील एका प्राचीन पण समृद्ध संस्कृतीचा वारसा असलेल्या भारत भू च्या अनेक वीर योद्ध्यांच्या आहुतींनी सिद्ध झालेल्या स्वातंत्र्याचा हा परम पवित्र असा अमृत काल.

मित्र हो, हा महोत्सव आपणही अत्यंत उत्साहाने आपल्या संस्थेत साजरा केला. नवयुवक म्हणून देशाच्या शाश्वत विकासाचे, समाजाच्या समृद्धीचे स्वप्न प्रत्यक्षात आणण्याची कर्तव्य म्हणून जबाबदारी आपल्या खांद्यावर घेण्याची प्रगल्भ जाणीव या निमित्ताने आपल्या मनात निर्माण झाली तर हा आपल्या आयुष्याचा खऱ्या अर्थाने अमृत काल ठरेल व आपल्या आयुष्याला एक उद्दिष्ट प्राप्त होईल.

विज्ञान, तंत्रज्ञान व अभियांत्रिकी हा राष्ट्राच्या विकास व समृद्धी यांचा पाया आहे. तंत्रज्ञ व अभियंते म्हणून आपले अभियांत्रिकी ज्ञान व कौशल्ये यांच्याद्वारे आपण आपल्या समाजाच्या प्रत्येक घटकाचे जीवन अधिक सुखकर करू शकतो याची जाणीव आपणास होणे अत्यंत आवश्यक आहे. या साठीची पात्रता प्रत्येक विद्यार्थ्यात निर्माण होण्यासाठी प्रत्येकाने आपले अध्ययन मनःपूर्वक व जबाबदारीने करणे आवश्यक आहे.

ज्या राष्ट्राने, समाजाने आपल्याला शिक्षणाच्या संधी उपलब्ध करून दिल्या त्यातील शेवटच्या व्यक्तीच्या उन्नयनाचे आपले नैतिक कर्तव्य आहे. ते पेलण्याची ताकद आपल्या बाहुत निर्माण होते ती केवळ शिक्षणाने आणि चारित्र्याने.

म्हणूनच आपण एक सुसंस्कृत, सुविद्य, व जबाबदार नागरिक होणे, राष्ट्रासाठी, समाजासाठी समर्पित भावनेने काम करणे या करीता वचनबद्ध होऊ या.

आपल्या तंत्रशिक्षण संचालनालयाचे बोध वाक्य असलेल्या "राष्ट्रोद्धाराय तंत्रशिक्षणम्" याचे खऱ्या अर्थाने उपयोजन करून विकसनशील भारताला विकसित राष्ट्र करण्यासाठी चालू असलेल्या प्रयत्नांचा एक निर्मल घटक होऊ या.

..... श्री. उदय अ. अग्निहोत्री, अधिव्याख्याता

## Achievements of the Department

### NBA

National Board of Accreditation (NBA) as an independent autonomous body with the objectives of assurance of quality and relevance to technical education, especially of the programs in professional and technical disciplines, i.e., Engineering and Technology, Management, Architecture, Pharmacy and Hotel Management and Catering Technology, through the mechanism of accreditation of programs offered by technical institutions.

NBA conducts evaluation of programs of technical institutes on the basis of laid down norms. This may include, but not limited to institutional missions and objectives, organization and governance, infrastructure facilities, quality of teaching and learning, curriculum design and review, support services (library, laboratory, instrumentation, computer facilities, etc.) and any other aspect as decided by the General Council and / or Executive Committee of NBA, which will help the graduates produced by the institutions as per industry requirements.

**Mechanical Engineering department recently received NBA accreditation for three academic years from 2022-23 to 2024-2025.**

## Student Induction Program- Purpose & Concept

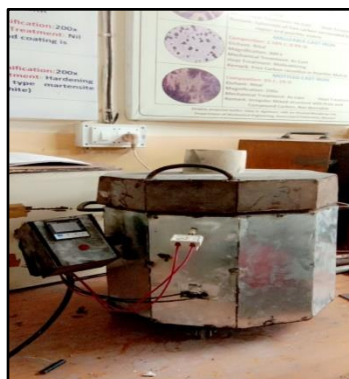
Purpose of the Student Induction Program is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of institution, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self-exploration.

The term induction is generally used to describe the whole process whereby the incumbents adjust to or acclimatize to their new roles and environment. In other words, it is a well planned event to educate the new entrants about the environment in a particular institution, and connect them with the people in it. Student Induction Program engages with the new students as soon as they come into the institution; regular classes start only after that.

At the start of the semester two weeks induction program was planned. During this incumbents were introduced about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Then the different activities like creative arts and culture, mentoring & universal human values, familiarization with institute and department, expert lectures & workshops by eminent personalities, visits in local area, feedback and report writing on the program have been completed.

## Student Projects

As per curriculum of P19 scheme, various industrial application based, laboratory application based, research oriented based project have been completed by the final year students under the guidance of departmental faculties. Some of the projects include development of fatigue testing machine, furnace, 3D printing machine, folding trolley, staircase lifting trolley etc.



## Industry Interaction - Expert Lectures/Workshops

1. **Career Opportunities after Diploma & Student Life in G P Mumbai** by Mrs. Darshana Malave, Alumni of Mechanical Department , Government Polytechnic, Mumbai on 16-09-2022



2. **Industrial Safety and Career Guidance in Core Industry** by Mr Pramod Toshniwal , Parent of FYME Student FYME (73 Students) on 17/09/2022



3. Expert Lecture and two days training Workshop on 3D printing in association with IDEMI, Mumbai & Maytech Innovations, Mumbai on 16 and 17/09/2022 for third year students.





4. Visit to Nature Park by first year Mechanical engineering students on 22-09-2022



5. Expert Lecture (Content beyond curriculum), on Colour Theory & Measurement, by Mr. Ritesh Bharambe, Managr Sales (Colour and Light Solutions), Jay Instruments and Systems Pvt. Ltd, Mumbai for third year students on 07/10/2022



6. Expert lecture by Mr. B.S. Sonawane, counsellor on 'Communication & Counselling as part of FY Induction Programme' on 18-10-2022.



7. Online Lecture on 'Indian Constitution by Dr. L. A. Patil, Retd. Principal Pratap College, Amalner FYME Div 1 & Div 2 on 23-09-2022
8. Online Lecture on General Health & Diet by Dr. Pratibhaa Siriah (B.A.M.S. M.A.(Yoga) Gold Medallist FYME Div 1 & Div 2 on 23-09-2022
9. Energy Conservation & Audit as part of FY Induction Programme, by Shri Pramod N Daspute (BEE Certified Energy Auditor; External Faculty PCRA) for TYME-1 & TYME-2 on 12-08-2022.
10. Fire & safety Training for first year students by Fire extinguisher training by Fire Academy, Mumbai in during 05th to 9th Dec. 2022



## Industry Interaction - Industrial Visit

1. Agrawal Industries Ltd. Vasai on 20/08/2022 for third year students.



## Industry Interaction - Sponsorships

1. Short term training courses by IDEMI- Sponsorship of 15 GPM students for 6 short term courses like autocad, mastercam, cnc mill, cnc lathe, Unigraphics , fees about Rs. 10,000/- to 12,000/- each, by special efforts of Mr. U. A. Agnihotri, and Dr. V. U. Rathod.
2. Metallurgical charts donated by Mr. Nandkishor Khatuwal, Manager Marketing, Banbros Engineering Pvt. Ltd., New Delhi, with special efforts of Mr. U. A. Agnihotri.

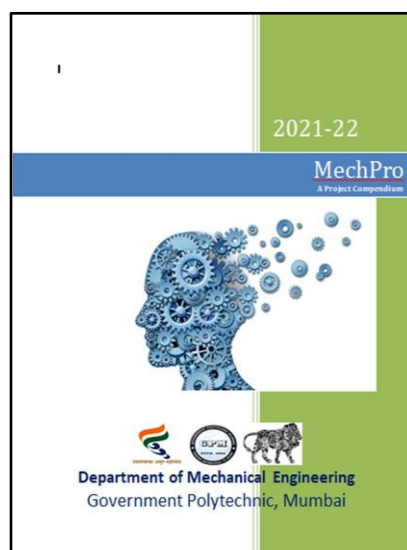
## Industry Interaction- MoU's

Department has Memorandum of Understanding with following industries for industry expert lectures, industry visits, Inplant Training, placement of students, and curriculum design etc.

1. Milestone Institute of Technology, Thane
2. Mech-India Engineers Pvt. Ltd., Dombivali, Dist. Thane
3. Care Group, Thane
4. Gujrat Chemiplant Private Limited, Goregaon, Mumbai
5. Eltech Engineers, Dahisar
6. Ishwar Engg. Andheri

## Publications

1. Department of Mech Engg. published project compendium 'MechPro' for internal circulation, summarizing an abstract and important features of the term end projects completed during Odd term 2021-22





## Sports

Departmental students participated in various sport activities at institute level, zonal level organized under IDESSA in November 2022. Different game includes- cricket, Badminton, kho-kho, football, Athletics etc.



## Moments to Remember

1. Khandenavami Celebration 4<sup>th</sup> October 2022.





2. Celebration of Mahatma Gandhi Jayanti on 02<sup>nd</sup> October 2022



3. Parents Meeting on 06 October 2022



4. Amrut Mahotsav celebration 13-15<sup>th</sup> August 2022



5. Yoga Day celebration 21<sup>st</sup> June 2022



## Faculties of Department

Department has highly qualified staff with vast experience in academics. The list includes:

Sr. No.	Name of Faculty	Educational Qualification
1.	Mr. D. H. Kamble, Head of Department	DME, BE (Mech.), M.E. (Machine Design), LLB, Ph. D. (Pursuing)
2.	Shri. K. V. Patil, Lecturer	B. E. Mech
3.	Mr. U. A. Agnihotri, Lecturer	M. Tech.
4.	Dr. V. U. Rathod, Lecturer	Ph. D. (Mech.)
5.	Mr. Y B Jamnik, Lecturer	B E (Mech.), ME
6.	Mr. E. C. Dhembare, Lecturer	B E (Mech.), ME (Pursuing)
7.	Mr. K Z Dhangare, Lecturer	B E (Mech.), ME (Pursuing)
8.	Shri. Baraskar	
9.	Smt. Avhad	
10.	Shri. C. G. Rane	
11.	Shri. Gotekar	
12.	Shri G D Kamble	Foreman
13.	Shri. S A Parera	Instructor
14.	Shri G R Bhalerao	Instructor
15.	Shri. S Y Sawardekar	Instructor
16.	Shri. S. M. Ahire	Instructor
17.	Shri. P. S. Suryvanshi	Instructor
18.	Shri. Mane	

## This volume is dedicated to our beloved colleagues

Late Dr. S. B. Mahagaonkar



Late Dr. A. A. Lonkar

