



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 of department during **Even term of academic year 2022-23**. The newsletter provides the glimpses of activities and students' experiences and other information. This newsletter will certainly help to build the effective linkages and 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 e-magazine more innovative and informative.

Vision & Mission

Vision of Government Polytechnic Mumbai

Transform knowledge into work

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

Welcome of New Dynamic Leadership-Dr. N. N. Mhala Joins as Principal

Dr. Nitiket Nijanand Mhala has taken the rein of institute as Principal of the institute on 31st December 2023. Dr. N. N. Mhala, the renowned academician and engineer from electronics engineering has several research papers which include international publications with more than 50 citations and projects to his credit. He has academic experience of more than 25 years. He has guided several M. Tech. students and Ph.D. scholars. He has contributed as Principle Investigator for Mechatronics Project under Research Promotion Scheme funded by AICTE. He has also worked as NBA evaluator. Under his leadership, some programmes at Government Polytechnic, Thane have been NBA accredited.



Dr. Nitiket Nijanand Mhala
M.Tech, Ph.D.

Dr. Mhala has the vision to project Government Polytechnic, Mumbai at the national and International horizons as the leading Diploma Technical education institute with academic excellence. We, the faculty, staff and students of Mechanical Engineering Department welcome Hon. Principal Dr. N.N. Mhala with lots of best wishes.

An Article for Everyone

My Experiences during In-plant Training



In-plant training is an essential part of curriculum of Diploma in Mechanical Engineering at GP, Mumbai. During sixth term we have to work in the Industry It provides the exposure to the actual industrial work practices and work culture. In my opinion, In-plant training provides a great opportunity to the student to develop and showcase his/her technical and Management skills & gain lot of knowledge and experience about Industrial working. I completed my training at Siemens, Kalwa works, the well known industry which has its dominating footprints in the sectors of Sustainable Energy, Digitalization, automation etc. At the Kalwa works, I had undergone training in Industrial Engineering department of Switchboard unit. My Industrial Engineering department deals with process Planning and implementation, improvements in the work procedure etc. I explicitly mention here that I used the knowledge from the curriculum of the courses such as Solid Modelling,

Drawing & Drafting, Design of Machine Elements, Advanced Manufacturing Processes, Manufacturing Processes, MQC, Tool Engineering, Strength of Material and Production & Industrial Engineering and used it while working on preparation of 3d models and drawings, Designing plant Layouts, Stress Analysis and material selection, selecting best method and machinery for making fixtures, using basic measuring instruments for checking dimensional accuracy of the parts, fixture components, design of Jig and Fixture, preparing orthographic view, rough sketches with measurements, Plant & Product layout, layout designing, how to increase production efficiency, material handling, mechanical Properties, Beam load calculation. During training I acquired knowledge regarding Data collection and analysis, Designing, Project Management, Professional Email writing etc.

Industrial training helped me to develop my Communication skill through discussions with the vendors, higher post officers, visitors. I got many chances of managing the projects, which helped me to develop my Leadership skills and I also learnt project management skill. This training helped me to develop abilities to take quick decision making. I also learnt many skills related to industrial behavior such as discipline, patience, interpersonal communication, creativity, planning, strategy, etc. Despite of all this, the one noticeable skill which I learnt and which I feel the utmost important for working at any industry is understanding of the Psychology of all the workers, team members working with you and dealing with them accordingly. Even though you make a correct decision or if you want to convey your points to another team member or the co-worker working under your supervision, then you must get the work done from them with humbleness, patience and gratitude instead of scolding or ordering them.

My experience is that the more knowledge I have about my engineering courses from previous terms, the more effective is the performance of a student during In-plant training. In-plant training has improved my confidence, rational thinking, technical decision making.

Overall, it was my pleasure to get my in-plant training at Siemens, Kalwa works which follows zero harm culture and where the work culture is very healthy and supportive for individual growth.

- Omkar A. Rewale, Third Year Mechanical Engg. Student

Achievements of the Department

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.

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

In-plant Training

During Even term 2022-23, 127 students of third year were placed in various industries for In-plant Training for ONE COMPLETE Semester. Following is the list of industries which provided training opportunities to the students.

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|---|--------------------------------------|---|--|--|
| ❖ M/S Schneider Electric Ltd. Mumbai, | ❖ M/s Siemens Ltd., Kalava | ❖ M/s Salzer Electronics Ltd | ❖ M/sM/s Samichettipalayam, Coimbatore | ❖ M/s Shree Ganesh, Industry Shahapur |
| ❖ M/s Promas Engineers Pvt Ltd, Navi Mumbai | ❖ M/s Larson & Toubro Powai Mumbai | ❖ M/s Vapcon Manufacturing Engineers, Andheri & Palghar | ❖ BEST Workshop | ❖ M/s Teksons Pvt Ltd |
| ❖ M/s GV, Phrama Tech Pvt Ltd Thane | ❖ M/s S.N. Enterprises, Dahisar West | ❖ M/s Ultra Plus Lubes Pvt Ltd. Kamothe | ❖ Wagh Motors | ❖ M/s Chemi Plant Engineering Pvt Ltd Goregaon, Mumbai |

- ❖ M/s Eltech Engineers, Dahisar Mumbai
- ❖ M/s Ashok Industries, Navi Mumbai
- ❖ M/s Jayashree Machine Tools, Thane
- ❖ M/s Patil Brothers Grant Road, Mumbai
- ❖ M/s Infinity Tooling, Pimpri Chichwad
- ❖ R.R. Plast Extrusion Pvt Ltd Asangaon
- ❖ Scientific Devices Mumbra
- ❖ D.H.Exports Pvt Ltd
- ❖ M/s Agarwal Industries, Vasai
- ❖ M/s Pragati Switchgears, Vasai
- ❖ M/s RCF Ltd, Thal Unit
- ❖ Ceat Tyre Nashik
- ❖ Tech Mahindra
- ❖ M/s RCF Ltd, Trombay
- ❖ M/s Mech India Engineering Pvt Ltd, Dombivali
- ❖ IDEMI, Mumbai,
- ❖ Matchwell Diecasters, Mumbai,
- ❖ Mahesh Engineer Midc Nanded
- ❖ M/s Shailesh Industry, Vasai
- ❖ M/s Vedant Industry, Goregaon
- ❖ M/s Nirmiti Enterprises Bhusawal
- ❖ Tool Room Aurangabad
- ❖ M/s Rotomech Automation Malad
- ❖ M/s Technostar Enterprises Kamothé
- ❖ Malhar Engg Works Ambernath
- ❖ J M Infra And Enviro Technologies Pvt Ltd. Mumbai
- ❖ M/s Vijaya Engineering Works, Andheri
- ❖ M/s Ishwar Engineering Company, Andheri
- ❖ M/s Basic Training Center, Parel Central Railway, Mumbai
- ❖ M/s Sai Service, Andheri
- ❖ M/s Primetal Technologies India Pvt Ltd. Navi Mumbai
- ❖ RCF Chembur
- ❖ Hamilton Housewares PVT.LTD, Silvasa
- ❖ Sayali C.T.S, Silvasa
- ❖ Wadegati labquip pvt. Ltd. Mumbai
- ❖ M/s Perfect Medical Solution, Mumbai
- ❖ M/s Harmam Group Dahisar
- ❖ M/s Technocraft Industries Pvt. Ltd Murbad
- ❖ M/s Raigad Steel & Roll Forms Pvt. Ltd
- ❖ M/s Fluidtecq Pneumatics Pvt. Ltd. Ambernath
- ❖ PANASIA Navi Mumbai
- ❖ SHM Shipcare Shm Group Of Companies, Mumbai

Campus Placements

10 students of third year Mechanical Engineering have been selected through campus placements by various reputed industries like Voltas Ltd., Go Digit, GE Aviation, Bajaj Ltd.

Expert Lectures/Workshops/ Social Visits

1. Visit to Hutatma Smarak by First Year Mechanical engineering students under UHV-II



2. Visit to Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (CSMVS), Mumbai by First Year Mechanical engineering students under UHV-II



3. Workshop on 'Gender Equality' under UN WOMEN-FLIGHT Project on 06th March 2023



4. Departmental faculties as a resource person in a Faculty Development Program on 'NBA Accreditation and Evaluation' organized by institute between 25th -27th April 2023.



5. Expert Lecture (Content beyond curriculum), on IoT and AI by Mr.S.R. Kasture, HoD, Electronics & AIML on 29th April 2023 for SYME students.



6. Expert Lecture on Ultrasonic Testing and Magnetic Particles Testing Techniques of NDT on 4th May 2023 by Mr. R. B. Bapat, Globe NDT Services, Mumbai



7. World Bank managed **MERITE Project** Delegates on GPM campus tour, visited Mechanical Engineering Department and Workshop on 17th June 2023



Industry Interaction - Industrial Visits

1. Skandwil India Pvt Ltd. Industrial Visit for Second year students to observe WJM on 16th Feb 2023.



2. Industrial Visit for Second and Third year students at Chandigadh 25th March 2023



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

School connect

1. To disseminate information about the diploma courses to SSC students, departmental faculties visited different schools in Mumbai. Students were made aware about the opportunities after completion of Diploma courses and diploma admission processes.



2. S.S.C. Students of municipal schools visited the department and Institute.



Moments to Remember

1. Swami Vivekanand Jayanti Celebration



2. Retirement function of Mr. Chagan D. Rathod from Workshop



3. Parents Meeting on 24th January 2023



Group Photo

Third year batch 2022-23



The object of education is to prepare the young to educate themselves throughout their lives.

Robert M. Hutchins
