

**Department
of**

**Mechanical
Engineering**

MECHANICAL MOMENTS

VOL 1

1. Vision Mission

2. PEOs

3. Committee

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Chief Editor's Desk:-

The Mechanical Engineering Department established in 2010 has intake of 60 students. Mechanical Engineering is one of the major streams in the engineering profession and its principles are involved in the design, development, production and construction of nearly all of the physical devices and systems. Mechanical engineers use the basic principles of motion, energy, and force to design and manufacture a vast-range of products. Mechanical Engineering is a creative profession in which students are trained to conceive, construct, test, and operate all kinds of mechanical, thermal, and biomedical devices.

The Department along with well-equipped teaching staff also has well established Machine shop & Workshop, CNC Lab, Fluid Mechanics & Machinery Lab, Thermal Engineering Lab, Theory of Machine Lab, Manufacturing process Lab, Mechanical Engineering Materials Lab, Metrology & Quality Control Lab, Industrial Fluid Power Lab, along with the Academic development, various activities are organized to develop soft skills of the students such as Paper Presentation, Industrial Visits and Expert Lectures etc.

The Mechanical Engineering Department at BSIET Polytechnic aims to create high-caliber mechanical engineers for a demanding profession which helps them to learn how to design and conduct experiments and to collect, analyze, and interpret data.

Mr. A. R. Nadaf

Vision:

- To develop competent technocrats by providing quality education for the betterment of society.

Mission:

- To inculcate theoretical as well as practical knowledge in students.
- Foster relationship between industry and institute for the benefit of all stake holders.
- Facilitating and encouraging students for continuing education and moulding them for life-long learning.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- **PEO1:** Use of mechanical engineering skills to work in multi-disciplinary work environment.
- **PEO2:** Analyze, design and develop new engineering technologies to become an entrepreneur.
- **PEO3:** Contribute in technological, economic and social development of the society.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO1:** Manufacturing processes and system design- Apply the knowledge of mechanical engineering in the field of manufacturing processes and system design.
- **PSO2:** Machine tools and instruments- Operate and maintain the machine tools and instruments.

Academic Achievements

MSBTE RESULT WINTER 2023

Class	Rank	Name	Percentage
FY	FIRST	PATIL SANRAJ ARVIND	79.18
	SECOND	SATHE PRUTHVIRAJ VIRAJ	78.82
	THIRD	ADAKE ATHARV RAHUL	75
SY	FIRST	SURYAVANSHI SOHAM SATISH	87.58
	SECOND	PATIL KRISH UMESH	84.63
	THIRD	VARNE RIDDHI SHITALNATH	80.63
TY	FIRST	VEDANTE ABHISHEK RAVINDRA	89.14
	SECOND	MIRAJKAR AYUSH ATUL	83.24
	THIRD	YADAV KRISH AMAR	77.33

Co-Curricular Achievements:

1. 03 students have participated in 'Paper Presentation Competition' ANNUTARA National level Technical symposium 2023 in Sant Gajanan Maharaj Rural polytechnic, Mahagaon.
 - Patil Aditya Sanjay
 - Vedante Abhishek Ravindra
 - Panhalkar Yash Madhav
2. 02 students have participated in 'CAD RACE' Competition, ANNUTARA National level Technical symposium 2023 in Sant Gajanan Maharaj Rural Polytechnic, Mahagaon.
 - Kodolikor Bhargav Abhijit
 - Lohar Ashish Rajkumar

Industrial Visit

1. An Industrial visit was arranged on 06/10/2023 at 11.00 am to **Mourya Group, Raymond Chowk, Five Star MIDC, Kagal, Kolhapur** for the students to make them aware about all the advanced techniques and processes takes place in the foundry like different steps in core making process, design and production steps in customized casting making.



Industrial Visit to “Mourya Group, Raymond howk, Five Star MIDC, Kagal, Kolhapur”

An Industrial visit was arranged on 18/10/2023 at 11.00 am to **Shri Chatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bavada, Kolhapur** for the students to make them aware about to understand the detailed construction of boiler parts, mounting and accessories of boiler. They also observe how thermal insulation of boiler is done and get more information sugar industry.



Industrial Visit to “Shri Chatrapati Rajaram Sahakari Sakhar Karkhana Ltd. Kasaba Bawda, kolhapur”

An Industrial visit was arranged on 21/10/2023 at 11.00 am at **Chalkewadi Wind Park, Suzlon Energy PVT Ltd., Chalkewadi, Satara** for the students to make them aware about objective of wind farms which produce renewable power that homes and businesses can utilize.



Industrial Visit to “Chalkewadi Wind Park, Suzlon Energy PVT Ltd., Chalkewadi, Satara”

An Industrial visit was arranged on 30/10/2023 at 11.00 am to **Kolhapur Zilla Sahakari Dudh Utpadak Sangh, Gokul Shirgaon, Kolhapur** for the students to make them aware about manufacturing as well as packing and dispatching functions of Gokul Milk.



Industrial Visit to “Kolhapur Zilla Sahakari Dudh Utpadak Sangh, Gokul Shirgaon, Kolhapur”

An Industrial visit was arranged on 04/11/2023 at 11.00 am to **Kirloskar Oil Engine, D1- Five Star MIDC, Kagal, Kolhapur** for the students to make them aware about manufacturing of air-cooled and liquid-cooled diesel engines and generator sets which offers of a wide range of power output.

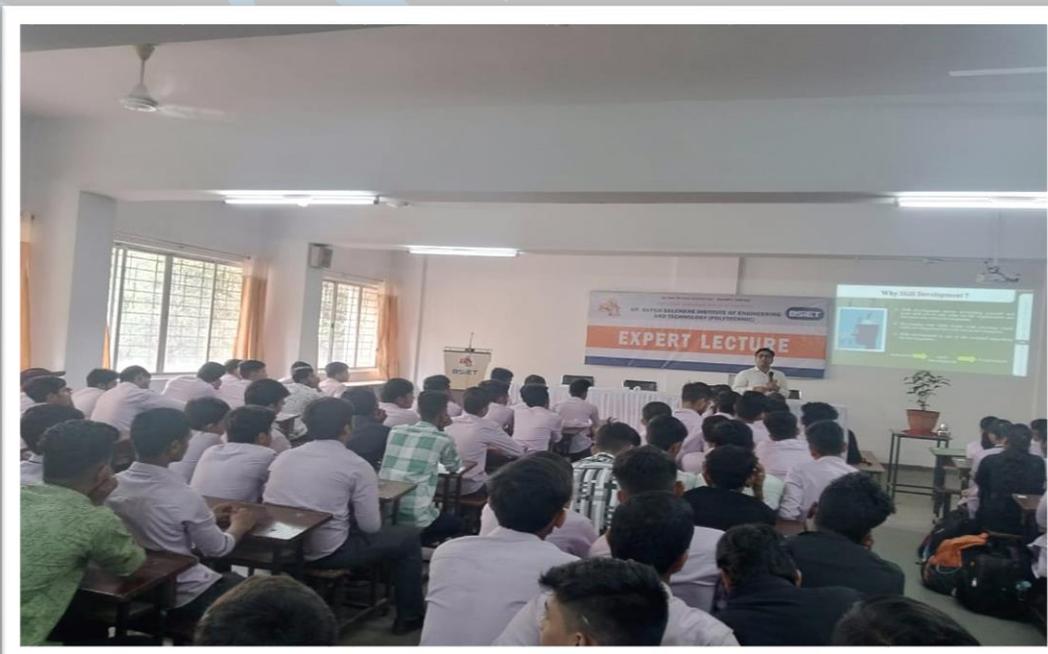


Industrial Visit to “Kirloskar Oil Engine, D1- Five Star MIDC, Kagal, Kolhapur”

Expert Lecture

Skill Development and Career Opportunities in Boiler Industry

An Expert lecture was arranged for the Third year mechanical department students On 09/08/2023 from 11.00 AM to 01.00 PM on the topic – “Skill Development and Career Opportunities in Boiler Industry” Mr. Suhas B. Deshpande who is Deputy Director of Steam Boiler, Kolhapur.



Recent trends in Design and Drawing for Production

An Expert lecture was arranged for the Third year mechanical department students on 16/10/2023 from 11.00 AM to 01.00 PM on the topic – **“Recent trends in Design and Drawing for Production”** by Mr. Umesh Koli, who is Head of Design department, Firefly Pumps, Kolhapur



Career Opportunities for Diploma students in Government Sector

An Expert lecture was arranged for the Third year mechanical department students on 31/10/2023 from 11.00 AM to 01.00 PM on the topic – **“Career Opportunities for Diploma students in Government Sector”** by Prof. Amit Suryakant Kharade, from SAI Academy Rajarampuri, Kolhapur.



Life Skill Development Training

A Life Skill Training Program was arranged for Third year mechanical department students on 23/08/2023 to 25/03/2023 by Mr. Santosh Nalwade, Kolhapur.





॥ श्री स्वामीजी ज्ञान सुलभकारा संस्थायां शिक्षणसंस्था ॥ श्री स्वामीजीजी डॉ. बापूजी साहूजी

Shri Swami Vivekanand Shikshan Sanstha's

Dr. Babuji Salunkhe Institute Of Engineering & Technology, Kolhapur

BSIET

Life skill training Programme Day 3



MESA FEST 2K23

Events arranged under MESA FEST 2K23 on the occasion of Engineers Day!



Khande-Navami Pujan

Khandenavami pujan by Mechanical Department students and staff at Department Workshop and Laboratories.



Teachers Day Celebration

Teachers Day Celebration at Mechanical Department.



Parents meet and Student Felicitation

Parents meet held for SY and TY students' Parent and Felicitation of Toppers and Students with special achievements in Extra and Co-curricular activities.



Student Achievement



"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार" - शिक्षणमहर्षी डॉ. बापूजी साळुंखे
SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S
DR. BAPUJI SALUNKHE INSTITUTE OF ENGINEERING AND
TECHNOLOGY (POLYTECHNIC)



HEARTY CONGRATULATIONS !!!

For Being Selected at KSPG Automotive India Pvt. Ltd

Salary Offered 1.85 LPA

KSPG
Automotive



Omkar Mukund Shinde



Ganesh Vijay Jadhav



Aditya Sandeep Chougule



Siddharth Satish Jadhav

MECHANICAL ENGINEERING DEPARTMENT

Scope of Mechanical Engineering

Diploma in Mechanical Engineering is a highly sought-after course that provides students with the necessary skills and knowledge to work in the mechanical engineering industry. Mechanical engineering is a diverse field, with applications in manufacturing, transportation, energy, and other areas. A diploma in mechanical engineering opens up a wide range of career opportunities in various industries.

Career after Diploma in Mechanical Engineering: Top 9 Opportunities

- Mechanical Engineer
- Production Manager
- Quality Control Engineer
- Maintenance Engineer
- CAD Technician
- Research and Development Engineer
- Technical Sales Engineer
- Project Manager
- Entrepreneur

Mechanical Engineer: Mechanical engineering is a broad field that involves designing, developing, and testing mechanical devices. Mechanical engineers can work in a variety of industries, including aerospace, automotive, manufacturing, and energy. They are responsible for creating blueprints and specifications, analyzing data, and testing prototypes. A diploma in mechanical engineering is the first step towards becoming a mechanical engineer.

Production Manager: Production managers are responsible for overseeing the production process from start to finish. They ensure that products are manufactured efficiently, on time, and within budget. A diploma in mechanical engineering is a great foundation for a career as a production manager because it provides students with knowledge of manufacturing processes and techniques.

Quality Control Engineer: Quality control engineers are responsible for ensuring that products meet the required quality standards. They inspect products, conduct tests, and analyze data to identify defects and recommend improvements. A diploma in mechanical engineering is a great foundation for a career as a quality control engineer because it provides students with an understanding of manufacturing processes and techniques.

Maintenance Engineer: Maintenance engineers are responsible for ensuring that machinery and equipment are operating efficiently. They conduct routine maintenance and repair work, and troubleshoot any issues that arise. A diploma in mechanical engineering is a great foundation for a career as a maintenance engineer because it provides students with an understanding of mechanical systems and their components.

CAD Technician: CAD (Computer-Aided Design) technicians are responsible for creating 2D and 3D models of products and components using computer software. They work closely with engineers and designers to create technical drawings and models that can be used for manufacturing. A diploma in mechanical engineering is a great foundation for a career as a CAD technician because it provides students with an understanding of mechanical design principles.

Research and Development Engineer: Research and development engineers are responsible for developing new products and improving existing ones. They conduct research, analyze data, and design prototypes. A diploma in mechanical engineering is a great foundation for a career as a research and development engineer because it provides students with an understanding of mechanical design principles and manufacturing processes.

Technical Sales Engineer: Technical sales engineers are responsible for selling technical products and services to customers. They work closely with customers to understand their needs and recommend products or services that meet those needs. A diploma in mechanical engineering is a great foundation for a career as a technical sales engineer because it provides students with an understanding of technical products and their applications.

Project Manager: Project managers are responsible for managing the projects from start to finish. They ensure that projects are completed on time, within budget, and to the required quality standards. A diploma in mechanical engineering is a great foundation for a career as a project manager because it provides students with an understanding of mechanical systems and their components.

Entrepreneur: Diploma in mechanical engineering provides the necessary knowledge to start one's own venture. Entrepreneurs can start manufacturing units, design and develop new products, offer technical consultancy services, and so on. Diploma in mechanical engineering opens up a plethora of career opportunities for students. The field of mechanical engineering is ever-evolving, and students need to keep themselves updated with the latest technologies and trends to succeed. A diploma in mechanical engineering is just the first step towards a successful career. Further studies, such as Bachelor's or Master's degrees, can enhance job prospects and help students climb up the professional ladder

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