



**BHARATI VIDYAPEETH INSTITUTE OF  
TECHNOLOGY, NAVI MUMBAI**



**MECHANICAL ENGINEERING  
DEPARTMENT**

## **About Department:**

Mechanical engineering is one of the basic and broadest engineering branch which offers opportunities to specialize in areas such as robotics, aerospace, automotive engineering, HVAC (heating, ventilation, and air conditioning), biomechanics, and more.

Mechanical engineering department was established in 2003-04 with an intake of 60. In the next year i.e. 2004-05 extra intake of 30 was added. Thus the total intake for the first year is 90. The department has well equipped labs, workshop, large and spacious Drawing hall accommodating 60 students at a time and an individual computer lab.

Keeping in mind the overall development of students, MESA was formed in 2004. This association has a library with about 200 books which are frequently referred by the students. The books in the library are updated as per the revised curriculum. MESA also conducts various seminars of eminent personalities from industries and academics, arranges industrial visits, group discussions, quiz competitions, etc. every year.

## MISSION

- M1. To develop confidence in students by providing exposure to industry, thus preparing them to meet global challenges.
- M2. To provide conceptual knowledge and develop analytical ability.
  1. M3. To develop written, oral and graphical communication skills in both technical and non-
- M4. To enhance latest technical knowledge and problem-solving ability by lifelong learning and imparting ethical values to serve to the society.



## VISION

Striving to be recognized for outstanding education and producing well-qualified diploma engineers, who are innovative, entrepreneurial and successful in advanced fields of engineering and higher education.

## PROGRAM OUTCOMES:



- PO 1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, sciences and engineering fundamentals and engineering specialization to solve the engineering problems.
- PO 2. Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.
- PO 3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of system components or processes to meet specified needs.
- PO 4. Engineering tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- PO 5. Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.
  - PO 6. 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.
  - PO 7. Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1. To provide students socially responsible, environmental friendly solution to Mechanical engineering related broad based problems adapting professional's ethics.
- PEO 2. To adapt state-of-the-art Mechanical engineering broad-based technologies to work in multi- disciplinary work environments.
  1. PEO 3. To prepare students to solve broad-based problems individually and as a team



## PROGRAM SPECIFIC OUTCOMES:

1. PSO 1. Machines and Mechanism Usage: Students will demonstrate the ability to design and conduct experiments, interpret and
- PSO 2. Mechanical Engineering Maintenance: Students will be familiar with modern engineering software tools and equipment to analyse mechanical engineering problems.

## FROM HOD'S DESK



*I feel extremely proud of this initiative to publish the Newsletter "MECHMARVELS" of the Mechanical Department. I take this opportunity to offer sincere thanks to all who have taken efforts to publish this Newsletter. The Mission of BVIT is to nurture the students with Outcome based and value-based education and inculcate leadership qualities to make competent engineers. The students are kept abreast with the latest technological advancements through Industrial visits, Industrial trainings, Expert lectures and other Industry Institute Interactions. These interactions update and groom the students with all latest innovations and motivate them to bridge the gap between their knowledge and skills and Industry expectations.*

# EDITORIAL BOARD



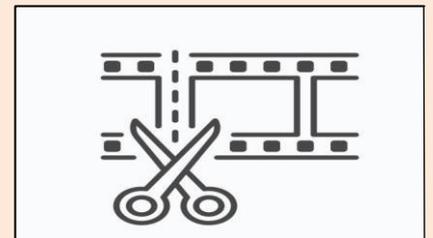
## STAFF EDITORIAL COMMITTEE:

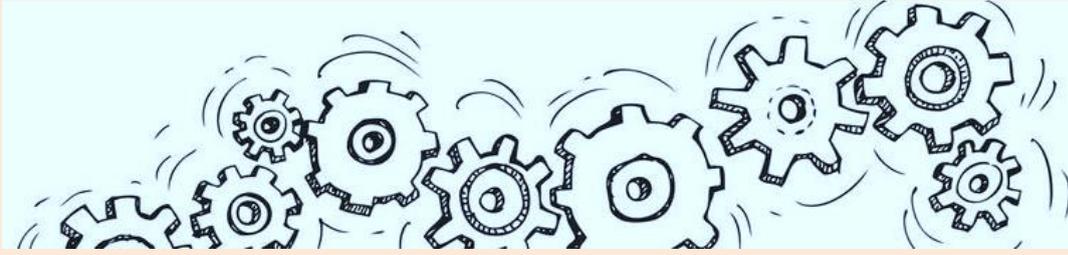
- [1. Mr.J.K. Patil](#)
- [2. Mrs.Sarika Khare](#)

## STUDENT EDITORIAL COMMITTEE:

[Sanavi Choubal](#)

[Arhaan Shaikh](#)





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# INTERACTION WITH INDUSTRY

## Industrial Training (Students)

Sr.No.	Duration	Industry	Participants
1	10/6/2023 to 22/7/2023	RCIIF Navi Mumbai	30 Students
2	10/6/2023 to 22/7/2023	Milestone Thane	40 Students

## Industrial Visit (Students)

Sr.No.	Date of visit	Name of Company	Address of company
1	9/12/2022	Adani -Electricity	Dahanu Thermal Power Station
2	24-02-2023	ISRO space exhibition	VJTI, Vadala



# GUEST LECTURES & PUBLICATIONS

## Guest Lectures (Students)

Sr. No	Date of Lecture	Name of guest/ expert	Designation / Company	Topic	Photo
1	07-04-2023	Mr. Sharad Deval	Director, Seasyst Engineering Pvt. Ltd. Navi Mumbai	Carrier Opportunities in Maritime	
2	13-03-2023	MR. Chinmay Rohekar	Professor, Vishwaniketan Inst. Of Mngt. Entrepreneurship & engg. Technology	Recent Trend in Manufacturing Industry	
3	01-03-2023	Mr. Devorut Jadhav	CEO, RCIIF, Navi Mumbai	Recent Trend in Automobile Industry	
4	01-12-2022	Mr. Abhijeet Mane	Mile Stone Institute of Technology	3D Printing- Future of the world	

## *Student Paper Publications*

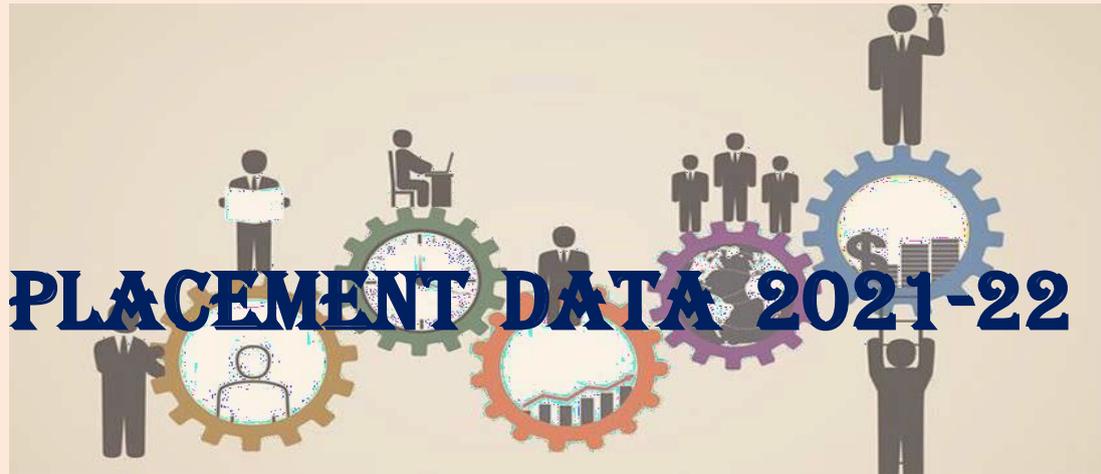
Sr.No.	Student Name	Publication/Name Of Guide	Journal Name	Date
1	1. Anurag Patel 2. Lokesh Jadhav 3. Umesh Dhole 4. Yogesh Jagtap	Bladeless Fan with Cleaner <u>Shreya Chavan</u>	IJIRSET	JUNE-2022
2	1. Nikhil Sonawale 2. Aditya Godbole 3. Shubhodip Mondol 4. Tejas Patil	Wooden Hover board <u>Shreya Chavan</u>	IJIRSET	JUNE-2022
3	1. Atharva Gurav 2. Swaroop Joshi 3. Tanay Palshetkar 4. Sanket Pawar	Single Wheel Electric Skateboard <u>Shreya Chavan</u>	IJIRSET	JUNE-2022

## **INDUSTRIAL TRAININGS** **(FACULTY)**

Sr.No.	Name of Faculty	Training Details
1	Mr.Satchidanand S. Choure	M/s FESTO INDIA PVT LTD
2	Mrs. Shreya Chavan	M/s FESTO INDIA PVT LTD
3	Mr. Uvraj Mane	M/s FESTO INDIA PVT LTD
4	Mrs. Sarika Khare	M/s FESTO INDIA PVT LTD
5	Mr. Amit Patil	ADANI FACILITIES AT DAHANU

## **FDP TRAININGS (FACULTY)**

<b>Sr.No.</b>	<b>Name of Faculty</b>	<b>Training Details</b>
1	Mr. J K Patil	<ul style="list-style-type: none"> <li>Data Science with Python</li> </ul>
2	Mr.Satchidanand S. Choure	<ul style="list-style-type: none"> <li>Data Science with Python</li> </ul>
3	Mr. Padmakar Raut	<ul style="list-style-type: none"> <li>Innovation, Incubation and Start-up Culture</li> <li>Data Science with Python</li> </ul>
4	Mrs. Shreya Chavan	<ul style="list-style-type: none"> <li>Innovation Research &amp; IPR -Journey Towards Excellence</li> <li>Trends &amp; Challenges In The Development of Electric Vehicles &amp; Hybrid Electrical Vehicles</li> </ul>
5	Mr.Amit Patil	<ul style="list-style-type: none"> <li>Excellence in Higher Education:- Perspective of NEP (18th Dec-22nd Dec 2021) organized by Sardar Patel College of Engineering and Federation of Education Leaders and Administrators</li> </ul>
6	Mr. Prashant Wankhede	<ul style="list-style-type: none"> <li>Analysis of Water Quality Writing Skills</li> <li>Engineering Drawing through AutoCAD</li> </ul>
7	Mr. Uvraj Mane	<ul style="list-style-type: none"> <li>Data Science with Python</li> </ul>
8	Mr. Sharadchandra Kantute	<ul style="list-style-type: none"> <li>Hybrid Electric Vehicles</li> <li>Engineering Drawing through AutoCAD</li> </ul>
9	Mrs. Sarika Khare	<ul style="list-style-type: none"> <li>Advances in Electric Vehicle Industry</li> <li>Hybrid Electric Vehicles</li> </ul>



SR. No.	Name of student	Enrollment No	Year of Passing	On/Off Campus	Company Name
1	Dhiraj Ubhe	2100270387	2023	ON	Godrej and Boyc Mg Co Ltd
2	Ashutosh Tandel	2100270384	2023	ON	Godrej and Boyc Mg Co Ltd
3	Srushti Ghorpade	2000270316	2023	ON	Schindler India Pvt Ltd



# DEPARTMENT ACTIVITY

State Level MSBTE Project Competition”

Oragnized by

MECHANICAL DEPARTMENT



**STATE LEVEL MSBTE PROJECT COMPETITION**

**BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY**  
Sector 7, Belpada, CBD, Navi Mumbai - 400 614

**Chief Guest**  
Mr. Mahesh Gambhir  
Vice President Mfg. L&D RIL

**Inauguration**  
Hon. Prof. Prasad A. Nalk  
Secretary MSBTE, Mumbai

**Guest of Honour**  
Dr. V.J. Kadam  
Chief Exe. IITC Acad. Mumbai

**Invited**  
Prof. P. M. Tandori  
Chief Co-Ord. IITC

**Prof. J. K. Kulkarni**  
Co-Ord. IITC

**Mr. Sankesh Kadam**  
Co-Coordinator

State Level MSBTE Project Competition, for students of Mumbai region, was conducted by Bharati Vidyapeeth Institute of Technology (0027), Navi Mumbai on 31/03/2023. Mr. Mahesh Gambhir, Vice President Mfg. L&D RIL, was the Chief Guest for the Inaugural Function. We also had Dr. Mahindra Chitlange, Secretary MSBTE Mumbai with us on the occasion.

The Chief Guest for Valedictory function was Mr. Keshav Varkhedkar Ex Chief Engineer(CIDCO).



The team who conducted this competition successfully is as follows:-

1. Mr. Tandon P.N. Chief Coordinator
2. Mr. Patil J.K. Coordinator
3. Mr. Santosh Kadam Co- Coordinator

The total entries for this competition were 40 from all over the Mumbai region.

The winners of the competition are as follows:-

**First Prize:-** Hybrid Electric Vehicle  
1148-PILLAI HOC College Of Engg. and Tech.

**Second Prize:-** Sharing

- 1) Believe- Each Life Matters  
0568-Vidyalankar Polytechnic Wadala.
- 2) Percolation Tank- A sustainable Resource.  
0116- Gov. Polytechnic Thane.



## CONTRACT WITH MAHANAGAR GAS LIMITED

Mahanagar Gas Limited has signed a contract with Bharati Vidyapeeth Institute of Technology, Navi Mumbai and has given Work Order to conduct a Safety and Technical Competency Training for them.



# DEPARTMENT SCOLARZ...



Final Year Toppers		
2023	2022	2021
		
Tanmay Sarnobat	Atharav Salunkhe	Akash Jadhav
86.77	85.13	93.49



# ANNUAL TOPPERS

**FYME**



Miss. Krishna Nirali

77.98%

**SYME**



Mr. Dhanesh More

80.57%

**TYME**



Mr. Tanmay Sarnobat

86.77%

