

**BHARATI VIDYAPEETH  
COLLEGE OF ENGINEERING,  
NAVI MUMBAI**

Sector-7, CBD, Belapur, Near Kharghar  
Railway Station, Navi Mumbai-400614

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## From HOD's Desk

I feel ecstatic to introduce you to Department of Mechanical Engineering, which is the foundation of Engineers. Department of Mechanical Engineering strives for increasing the knowledge, enhancing the critical thinking, ability to change information into knowledge and power of analyzing the things technically of each and every individual of ever changing society through students. We always intend to impart knowledge through a closed knit family of highly competent faculty. Department of Mechanical Engineering plays a vital role in an engineering college catering to the teaching of Mechanical and Humanities courses for engineering students.

### Vision:

“To be recognized as leading mechanical engineering discipline by enhancing the knowledge and skills for the sustainable development”

### Mission:

- Sociotechnology Skills : - To educate students through various activities including technical education, research and social service.
- Centre of Focus : - To promote prevailing challenges based projects and activities for socio-economic development.
- Competitiveness : -To develop competency in graduates for their career development to sustain in challenging environment.

## 2. Skill Development Activities:

### 1. Tata Power Skill Development Institute, Mumbai:

- Objective : Learner should be able to acquire skills regarding Industrial Valves and Pumps Maintenance.
- Outcomes : Learned the concept of by actual use of components.
- Date: 8-13 Feb 2021
- Duration: 6 Days
- No. of Students attended: 40



### 2. Internship:

- Objective : Learner should be able to implement their theoretical knowledge and acquire skills regarding Industrial applications.
- Outcomes : Learned the theoretical concepts in experimental ways in industry.
- Duration: Varies 3 to 69 Days as per company.
- No. of Students attended: 94

TCS iON

INTERNSHALA  
Internships that matter

verzeo  
THE NEW WORKPLACE

PANTECH SOLUTIONS™  
Technology Beyond the Dreams

### 3. Value Added Program Conducted (One Month):

- Program Name : Programming with Python
- Objective : Learner should be able to acquire skills regarding Python programming.
- Outcomes : Learned the programming for various applications.
- Duration : 19th April 2021 to 7th May 2021
- Resource Person: Dr. Kaushal D. Badgujar.
- No. of students participants : 50

Value Addition Course on  
**Programming with Python**

19<sup>th</sup> April 2021 to 7<sup>th</sup> May 2021  
Time: 3:00 pm to 5:00 pm  
(Monday, Wednesday and Friday)

**FREE**

Link for Registration  
<https://docs.google.com/forms/d/e/1FAIpQLSeiWZCcSE5THBip5lPlofnk1jCxt978cR8pUKDFgQOa8WVGbQ/viewform>

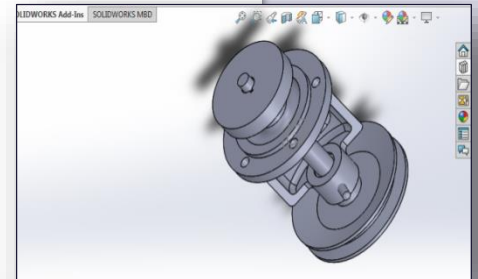
**Resource Person**  
Dr. Kaushal D. Badgujar  
BVCOE, NaviMumbai

E- Certificates on completion of quiz

## 4. Competition Organized:

### 1. 3D Modelling Competition

- Organized by Mechanical Engineering Student Association(MESA),dated 28 February, 2021 coordinated by Prof.J.S.Patil.
- Objective : Competition play a role in motivating students to perform and excel and lot more reward than just winning prize. It offers a chance for participants to gain experience, showcase skills,analyze and develop their ideas and skills.
- Outcomes : Learned the theoretical concepts in experimental ways in industry.
- Duration: Varies 3 to 69 Days as per company.
- No. of Students attended: 94



## 5. Industrial Visit Organized:

An Industrial visit was organised by ISHRAE Mumbai Chapter at PVR Control @ PVRC, Khairane MIDC, Navi Mumbai. From PVR Team Mr. Sawant have explained about HVAC&R Controllers , Electric Panels, different valves and control etc. to the students and coordinated by Prof. Prathmesh Patil, dated 3rd Feb 2021.



## 6. Webinar Organized:

### Applications of Fluid Dynamics in Aerospace Applications



**Mr. Pranav Gujar**  
Beta NewMark  
Technologies  
22 May 2021

1

### CAE Awareness for Mechanical Engineers



**Mr. Rohit Belsare**  
Beta NewMark  
Technologies  
14 May 2021

2

### Shifting Paddles Post Engineering



**Mr. Ankush  
Chakranarayan**  
INDOFIL Industries Ltd  
14 May 2021

3

**Implementation  
of Project Management  
in Industry**



**Mr. Pranav Gujar**  
TCS  
5 April 2021

4

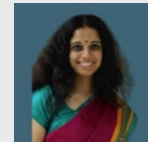
**Quality Improvement  
Tools: A Case Study**



**Mr. Vasuki Harnahalli**  
Godrej and Boyce Co Ltd.  
9 April 2021

5

**21st Century Workplace  
skills Chaning Hiring**



**Ms. Nidhi Dhanju**  
Thermax  
15 April 2021

6

**The wonderful world  
of Fluid  
MechanicsApplication**



**Dr. Prasanna Nambiar**  
DBIT, Mumbai  
7 May 2021

7

**Applications of  
SixSigma**



**Mr. Shivdas Ashtekar**  
Rieter India Pvt. Ltd.  
19 March 2021

8

**Heat Treatment  
Process**



**Mr. Shrikant Kulkarani**  
Bosch Ltd.  
6th April 2021

9

**21st Century Skill for  
Engineering Aspirants**



**Mr. Kalyankumar Hatti**  
Ashok Leyland  
20th March 2021

10

**How to write Research  
Article**



**Dr. Sainath Wagmare**  
IIT Bombay  
27th March 2021

11

**Applications of  
Mechatronics**



**Mr. V.S. Gadgil**  
SMC Corporations (P)  
Ltd23rd Feb 2021

12

**Career Opportunities  
for Graduates In Mech.  
Engg in Merchant Navy**



**Mr. Subendu Hati**  
Retired Neavy Personnel  
Officer  
2 Feb 2021

13

**Selection of  
Miniproject**



**Mr. Rajendra Singh**  
Perpetual Labs Private Ltd  
25 March 2021

14

**Opportunities after  
Civil Service Exams**



**Mr. Pranav Gujar**  
Beta NewMark  
22 May 2021

15

## 7. Students Achievements:

### 1. National Level Project Competition Xhibitech-2021(19 April 2021) :

- **1st Prize**  
**Project Name** : Multipurpose Street Lamp Using Vertical Axis Wind Turbine & Solar Pannel  
**Students** : Dhanashri Mhatre, Rushabh Mhatre  
Varun Mhatre, Vishwesh Mhatre  
**Guide** : Prof. S.S. Kanse
- **2st Prize**  
**Project Name** : Oscillating Water Column: Design and Prototype Development  
**Students** : Soham Singh, Kshitij Walekar  
Niteshkumar Shukla, Shrikrushna Patil  
**Guide** : Dr. A.S. Bhongade
- **3st Prize**  
**Project Name** : UV- C Conveyor Disinfection & Sterilization Model  
**Students** : Swaraj Bodke, Amey Gabhale  
Yashraj Nikate  
**Guide** : Prof. P. R. Suryawanshi



## 2. Chhatra Vishwakarma Award :

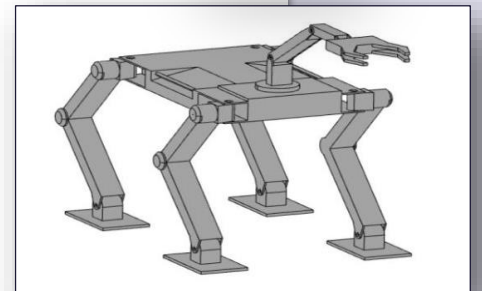
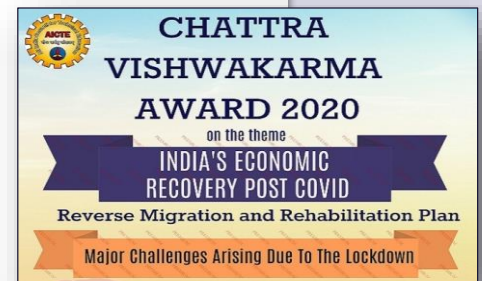
- Design of Four Legged Walking Robot for Safety & Surveillance:  
Mentor: Dr. S. N. Teli  
Members: Manish Dhakolia, Pranay Chalk, Shubham Baniya, Atharv Desai  
1ST ROUND :15 Feb 2021  
2ND ROUND : 05 April 2021

## 3. Gate Qualified student :

- Name of student : Hrushikesh Bhagwat  
Gate Marks: 36.31  
Gate Score : 385/1000  
Rank: 14610

## 4. Project Presentation at Avishkar Research Convention- Mumbai University:

- Design of Four Legged Walking Robot for Safety And Surveillance
- Mini Windmill Power Generation
- Design and Analysis of Automatic Sliding Ramp for Handicapped People during Public Transportation
- Design and Fabrication of Myoelectric Prosthetic Hand
- Design and Simulation of Multipurpose Waste Processing Unit
- Design and analysis of Hospital Bot for Sanitized Cleaning and Delivery
- Multipurpose Street Lamp Using Vertical Axis Wind Turbine And Solar Pannel
- Multipurpose Agriculture Machine



## 8. Placement & Pre-placement Activities :

### 1. Pre-Placement Activities :

- **Topic :** Placement orientation for SE (Pass out 2023-24)  
**Speaker :** Prof. Shital Patel  
**Date :** 24/02/2021
- **Topic :** Career opportunity for Mechanical students in Merchant Navy  
**Speaker :** Mr. Subhendu Hati  
**Date :** 02/02/2021
- **Topic :** USA - Stevens institution of Technology  
**Speaker :** Vision International  
**Date :** 22/03/2021
- **Topic :** SOP/Essay/LOR Masterclass  
**Speaker :** iSchoolConnect  
**Date :** 23/03/2021
- **Topic :** Insight of Cambridge University and the eligibility, criteria and process for admission.  
**Speaker :** Anshumaan Krishnan Ayyangar  
**Date :** 24/03/2021
- **Topic :** How to prepare IELTS and GRE.  
**Speaker :** Vision International Australia - Deakin University alumni e by Madhura Kamerkar,  
**AlumniDate :** 25/03/2021
- **Topic :** Life Skill (SoftSkill)  
**Speaker :** Dr. Vanita Joshi,  
**Date :** 6/05/2021 to 17/05/2021
- **Topic :** Mock Placement  
**Organiser :** Mechanical Engineering Student Association (MESA) In collaboration with Placement Coordinator's Committee  
**Date :** 24th April to 8<sup>th</sup> May 2021



2. Placement 2021:



Bhumika Dhavale  
Hindustan Platinum



Parth Gandhi  
Panasonic Life Solutions



Manish Dhakolia  
Panasonic Life Solutions



Sarvesh Sanap  
Panasonic Life Solutions



Shrikanth Vaidya  
Panasonic Life Solutions



Shivani  
Panasonic Life Solutions



Dipam Thale  
Panasonic Life Solutions



Goraksh Choughule  
Panasonic life solution



Jagruti Harad  
Hindustan Platinum



Anurag Karulkar  
TCS Ltd



Rishikesh Daspute  
Panasonic life solution



Pooja Lamkhade  
Ashok Levland Ltd



Pratap Sargar  
Reliable Testing Services



Sanket Patil  
Panasonic life solutions



Darshan Jadhav  
Valad Infotech (P) Ltd



Vaishnavi Patil  
Godrej & Boyes





## 9. Faculty Interaction with other institute :

- Mechanical Engineering Dept visited B.P. Marine Academy, Panvel, dated 5th march 2021 coordinated by Dr. A.S. Bhongade.



## 10. Research and Publication :

### 1. Research Article Published :

- Dr. Bhongade Ajay Surendrarao - 4
- Dr. Teli Shivagond Nagappa - 6
- Shri. Lonare Girish Mahadeorao - 1
- Shri. Patil Vinayak Nivasrao - 2
- Shri. Patil Jaydeep Sarjerao - 2
- Smt. Khetree Surekha Dehu - 2
- Shri. Jadhav Sunil P. - 3
- Shri. Fulzele Prasenjit Yashwant - 2
- Shri. Nikam Manoj D. - 2
- Smt. Patel Shital Viral - 2
- Shri. Kanse Sandip Subrao - 3
- Smt. Khan Firdos J. - 5
- Shri. Suryavanshi Pramod R. - 2
- Shri. Jagtap Govind Vishwanath - 1
- Shri. Radkar Dilip Bhagwatrao - 1
- Shri. Shinde Yayati Bhimrao - 2
- Shri. Katke Ganesh S. - 1
- Shri. Patil Prathamesh D. - 1

### 2. Book Published :

Designing Cigarette Smoke Filter for Passive Smokers: Preliminary Analysis  
Author : Shital Patel, Nimish Patil, et al.

## 11. Alumni :

### 1. Alumni - Contribution :



**Sai Prasad Shelke**  
**TCS**

Webinar delivered on Project Management ,5th April 2021



**Rachana Dighe,**  
**Director UTPNN Financial**

Judge for National Level Exhibitech-2021, 19<sup>th</sup> April 2021



**Ashish Vajir**  
**CEO, Elite Consulting**

Judge for National Level Exhibitech-2021, 19<sup>th</sup> April 2021



**Vinamra Kale**

Counselling on the GATE Exam 19 Sept 2020



**Ketan Patil**  
**Asst. Divisional Mechanical Engineer, East Coast**

Webinar on Opportunities after Civil Service Exams, 5 Sept 2020



**A.K. Ayyangar**  
**Director of Astral Creations Pvt. Ltd., Chennai.**

Webinar on The insight of Cambridge University: the eligibility process for admission, 23



**Siddhesh Phadake**  
**Project Manager, Technip**

Mock Interview conducted for final year students, 2nd May 2021



**Ravina Sontakke**  
**Assistant Manager Godrej & Boyce Mfg. Co**

Mock Interview conducted for final year students, 2nd May 2021



**Prathamesh Mahajan**  
**Project Engineer, Atharva Engineers**

Mock Interview conducted for final year students, 2nd May 2021



**Akash Kanade**  
**Maintaince Executive Mahindra & Mahindra Ltd**

Mock Interview conducted for final year students, 2nd May 2021

## 2. Alumni - Testimonials :



**Mr. Ankit Goratela**  
Thermofisher Scientific,  
Canada

**Pass-out: 2013**

It gives me immense pleasure to be part of an institution that has been constantly evolving over the years. Studying mechanical engineering from Bharati Vidyapeeth, Navi Mumbai gave a solid academic foundation for my career. I am grateful to have been well supported by faculty throughout my time at BVCOE and appreciative of Dr. S.D. Jadhav madam and professors in Mech Dept assisted me in the process of applying abroad for my master's program in mechanical engineering.



**Mr. Pauras Surve**  
Shipping Corporation of  
India Ltd.

**Pass-out: 2011**

My graduation at BVCOE has been a very interesting and awesome journey. Choosing BVCOE was one of the best decisions I have ever made. At this College I gained friendship and experiences which added a different perspective to my life.. It feels great to be taught by amazing teachers who are the best. They always motivated and encouraged me to face the risks and learn new things. I am and will always be thankful to BVCOE for making me a person I am today.



**Mr Alankar Ambwade**  
Shapoorji & Pallonji  
Group

**Pass-out: 2009**

Thank you BVCOE for playing an important role in my life. BVCOE taught me a way of living, importance of education, moral values, ethics and so many important lessons that framed me as a better individual. Faculties in BVCOE are not here only to teach you but also to give a better shape to your future, which everyone needs. It's environment not only gives a quality education but also builds a habit of determination and punctuality. My graduation years in BVCOE is best transition phase of my life.



**Mr. Sharath Harve**  
AGM, Godrej & Boyce Ltd  
**Pass- Out: 2006**

To Summarize my whole journey and experience in BVCOE, I would like to pay my gratitude to the Department, HOD and all the Faculty Members for being so supportive and guiding me throughout, to develop my skills and personality and thereby making me what I am today. I am extremely thankful to BVCOE for providing us a platform with job opportunities and career development.



**Ms. Rachna Dighe,**  
Director, UTPNN Financial &  
export import services  
**Pass-out: 2006**

I am 2006 batch passout of Mechanical engineering branch. BVCOE has one of the best laboratories & workshop in Mumbai University having working models of Turbine, automobile machine parts, pumps etc. I got campus placed from BVCOE in one the top 50 companies of 2006(in Reliance Infrastructure Ltd) with very good take home package, this immensely helped to grow in my career.



**Mr. Naushad Ali Rizvi,**  
CEO, Toyota Lakozy Auto  
Pvt Ltd.  
**Pass-out: 1996**

I cherish my college memories where it was fun with education. I am thankful to the college for providing me the right platform on my academics and help me to develop my career. I wish all the students of BVCOE a very bright and successful career.