

**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”

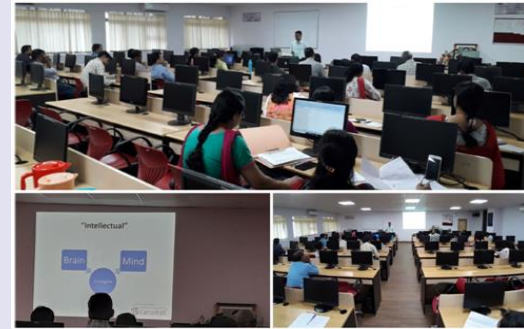
Mission:

- 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.

STTP/FDP ORGANIZED:

1. Design Thinking, Innovation and IPR :

- Objective - The Course “DESIGN THINKING, INNOVATION AND IPR” will help to convert innovative ideas into educational projects which solve industrial or societal problems.
- Date: 9th to 13th December
- No of Participants: 50
- Topic Covered:
 1. Innovation in project: Need for Innovation research challenges in the engineering field.
 2. Technical writing: Research Proposal writing, Research paper writing
 3. Research funding: Information about funding agencies and its guidelines
 4. Intellectual Property Rights: Copyright, Trademark and Patent. Patent Drafting and procedure to publish patent.
 5. Startups: Procedure and Schemes for startups.



2. Industry 4.0

- Objective: To give awareness about Industry 4.0 among the faculty.
- Date: 20th July 2019
- Resource Person: Mr. V.S.Gadgil, SMC Pneumatics Ltd., Navi Mumbai
- No of Participants: 65
- Impact: Participants came to know the importance and Technology pillar of Industry 4.0



3. Changing Landscape in Higher Technical Education Opportunities & Challenges:

- Objective: To know the Opportunities & Challenges in Higher Technical Education
- Date: 20th Nov 2019
- Resource Person: Dr. B.A. Metri, Director, IIM, Trichy.
- No of Participants: 65
- Impact: Participants came to know the importance of Changing Landscape in Higher Technical Education Opportunities & Challenges in it.



WEBINARS ORGANIZED:

1. Webinar on “Teachers are Leaders”:

- Objective : To motivate & encourage teachers towards leadership
- Prerequisite: Nil
- Duration : 1 Hr
- Date : 23 May 2020
- Resource Person: Mr. Kayankumar Hatti, GM, Ashok Leyland Ltd
- Topic Covered : Leadership qualities teachers need to possess
- No of Participants: 1100+
- Impact : Participants were motivated by talk. The talk was more emphasized on time, stress management, how to balance the professional and personal life. Ultimately how to become successful teacher in the society.



2. Webinar on “Heat Transfer Concepts in Configuration Design of Lifting Body of Reusable Hypersonic Vehicle”

- Objective: To utilise this time and make faculty aware of new research topic
- Prerequisite: Knowledge of heat transfer and fluid mechanics
- Duration: 2 hours
- Date: 2nd may 2020
- Resource Person: Dr. Shripad Mahulikar (Aerospace Dept. IIT Bombay)
- Topic Covered: Boundary layer formed on nose of aeroplane
- No of Participants: 90
- Impact: Feedback was good. Overall nice experience

3. Webinar on “Fundamentals of Condition Monitoring”

- Objective: Condition Monitoring in industry
- Prerequisite: Mechanical Engineering final year students
- Duration: 2 to 4pm (2 hours every day)
- Date: 3rd -11th April 2020 (9 days)
- Resource Person: Dr Tarapada Pyne , PhD in Reliability & Management (30 years of experience)
- Topic Covered: Condition Monitoring -Theory and practical implementation in industry
- No of Participants: 81
- Impact: Feedback was good. Overall nice experience



EXPERT LECTURES/ SEMINAR/ WORKSHOP ORGANIZED:

1. Expert Lecture on “Implementation of Six Sigma in industry”

- Objective : Learner should be able to understand six sigma implementations in industry.
- Outcomes : Learned the concept of implementation through different case study
- Date : 1st Nov. 2019
- Duration : 2Hrs
- Resource person and name of Organization: Mr.Nitin Tembhurne, Six Sigma Facilitator, Ispat Group
- No. of Students attended: 72



2. Seminar conducted on “Product Life Cycle Management”

- Objective : Learner should be able to understand “Product Life Cycle Management”
- Outcomes : Students have understood the importance and application of “Product Life Cycle Management”
- Date : 31st July 2019
- Duration : 2Hrs
- Resource person and name of Organization: Mr. Shekar Mittal, CEO & MD, Center of Excellence in Maritime and shipbuilding (Govt. of India), Powai, Mumbai
- Faculty Coordinator: Dr.S.N.Teli
- No. of Students attended: 135



3. Expert lecture on “Applications of Solar Energy”

- Objective : Learner should be able to know Applications of Solar Energy
- Outcomes: Students have understood the importance and applications of solar Energy
- Date : 8th July 2019
- Duration : 2Hrs
- Resource Person : Mr.Balraj Bhatt, Principal-Tata Power Skill Development Institute, Mumbai
- Faculty Coordinator : Dr.S.N.Teli and Prof. Dilip Radkar
- No. of Students attended: 112



4. Creo Workshop

- Objective: Learner should be able to become expert in 3 D modelling software
- Outcomes: Students have understood the CREO 4.0 software and they are able to draw 3D models.
- Resource Person: E-square Infotech
- Faculty Coordinator: Prof. Padmini Sawant, Prof. J.S. Patil, Prof. S.N. Gurav
- Duration : 3 days
- Date : 24th to 26th September 2019
- Resource Person: Prof. Mukharjee, E Square Academy
- No of Participants: 55



5. Industrial Automation, Industry 4.0 and Programmable logic controller

- Objective: Learner should be able to aware the Industry 4.0 and PLC
- Outcomes: Students have understood the importance of Industry 4.0 and Applications of PLC.
- Duration : 1 Hrs.
- Date : 12th March 2020
- Resource Person: ALISTER DSILVA, Director - Absolute Motion Pvt. Ltd,
- Faculty Coordinator: Prof. Manoj Nikam and Dr.S.N.Teli
- No of Participants: 135



COMPETITIONS ORGANIZED:

1. ExhibiTech 2020

- Topic : National level Project competition and exhibition 2020
- Objective: To prepare competitive environment and promote innovation & skills of students.
- Level : Intra college- National level
- Date : 27th Feb 2020
- Participants: 400 +
- Impact: Awareness about innovation and publicity among students



2. 3D Modelling Competition:

- To prepare for a competitive environment and enhance modelling skills.
- The 3D modelling competition was organised in association with CADD Centre, Kharghar.
- The participants were given two options between Solidworks 18 or Creo 5.0 to use for 3D modelling.
- The competition was organized in two rounds.
- Level : Inter college
- Date : 25th Feb 2020
- Total participants: 21



3. Poster exhibition for Smart India Hackathon (SIH) 2020

- Objective: To prepare competitive environment and promote innovation skills
- Duration : 1 days
- Date : 24th Jan 2020
- Level : Inter college
- No of Participants: 132
- Impact: Short listing of students for SIH and awareness about SIH



4. National level Quiz on Non Traditional Machining

- Objective: To create awareness about the Non Traditional Machining Processes in the globalized world.
- Level : National
- Date : 17 June 2020-30 June 2020
- No of Participants: 668
- Impact: Awareness about Non-Traditional Machining Processes



INDUSTRIAL VISITS ORGANISED:

1. Auto Expo2020, Delhi

- Objective : To explore the students about latest Automobiles and its parts. To explore Industry 4.0 in SMC
- Outcomes: They learned the various new ideas related to the project through this visit.
- Date : 11th Feb. 2020
- No of Participants: 86
- Class : SE, TE, BE
- Faculty Coordinator: F. J.Khan, A.S.Bhongade, S.D.Khetree, D.B.Radkar and G.V.Jagtap.



2. SMC Pvt.Ltd.,Noida

- Objective : To explore Industry 4.0 in SMC
- Outcomes: They learned the various new ideas related to the project through this visit.
- Date : 12th Feb. 2020
- No of Participants: 86
- Class : SE, TE, BE
- Faculty Coordinator: F. J.Khan, A.S.Bhongade, S.D.Khetree, D.B.Radkar and G.V.Jagtap.



3. TCR, Mahape, Navi Mumbai

- Objective: To explore the students about different hardness, Fatigue, Tensile and Creep testing machines.
- Outcomes: They learned the various methods of material testing and microstructures.
- Duration : 1 days
- Date : 27th Sept 2019
- No of Students : 40
- Class : SE
- Faculty Coordinator: Firdos .J.Khan,, Prof.P.Patil, Prof.M.D.Nikam and P.Y.Fulzele



4. TAPS, Plant -3

- Objective: To explore the students about Nuclear Power Plants.
- Outcomes: They learned how the heavy water reactor works and different processes involved in it.
- Date : 27th Aug. 2019
- No of Students : 46
- Class : BE
- Faculty Coordinator: Firdos.J.Khan , Prof. Girish Lonare and Prof. Govind Jagatap

5. Center of Excellence in Marinetime and Shipbuilding (Govt. of India), Powai, Mumbai

- Objective: To explore the students about PLM and NX software's
- Outcomes: Students have understood the importance and features of the PLM and NX software's.
- Date : 7th Octo. 2020
- No of Participants: 35
- Class : TE
- Faculty Coordinators: Dr.S.N.Teli and Prof. Manoj Nikam



6. SMC Corporation (P) Ltd., Navi Mumbai

- Objective: To explore the students about Pneumatics, Electro-pneumatics and Mechatronics
- Outcomes: Students have understood the working and basic concepts of Pneumatics, Electro-pneumatics and Mechatronics
- Date : 13th March. 2019
- No of Participants: 42
- Class : TE
- Faculty Coordinators: Dr.S.N.Teli and Prof. Manoj Nikam



7. Mahindra & Mahindra (P) Ltd., Nashik

- Objective: To explore the students about manufacturing assembly of XUV300
- Outcomes: Students will be able to elaborate different parts of the automobile; students will be able to describe role sensors & diagnostics in automotive applications.
- Date : 10th Octo. 2019
- No of Students : 32
- Class : TE, BE
- Faculty Coordinators: Prof. Manoj Nikam and Prof. S.D. Khetree.

