



SANDIP FOUNDATION'S  
SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE ,  
NASHIK  
DEPARTMENT OF MECHANICAL ENGINEERING  
E-BULLETIN

Departmental E -Bulletin Edition / volume - 5 / issue - 3

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Vision of siTRC

To be acclaimed  
Institution for  
learning and research

Mission of siTRC

To impart in-depth technical  
knowledge.

To create conducive  
environment for research,  
innovation and  
entrepreneurship.

To instill the social and  
cultural values.



### From the HoD's Desk

I am happy to learn that Mechanical Engineering Department, Sandip Institute of Technology and research Centre is coming out with the quarterly departmental E-Bulletin. This E-Bulletin will help to share the news, events achievements of the department among alumni. This E-Bulletin will provide an opportunity for the staff and students to showcase their talents in technical writing. I would like to appreciate and congratulate editorial team of the department for their unrelenting efforts in compiling this E-Bulletin.

### From the editor's desk

It gives us an immense pleasure to introduce this E-bulletin of Mechanical Engineering Department. Proper communication plays a vital role in institution's development. This E-bulletin will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. This E-bulletin will be a medium to provide proper acknowledgement and respect all of these efforts and its results.

## VISION OF THE DEPARTMENT

To achieve excellence in the domain of Mechanical Engineering by inculcating a culture of learning and research.

## MISSION OF THE DEPARTMENT

- To nurture the students of Mechanical Engineering to be competent, motivated and ethical professionals.
- To foster research, innovation and entrepreneurship skills leading to employable and self reliant technocrats.
- To groom the socio-techno potential for up-liftment of society.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

- PEO 1: To pursue and establish the career in Mechanical Engineering.
- PEO 2: To demonstrate personal growth by pursuing higher studies, professional development course and/or engineering certifications.
- PEO 3: To inculcate entrepreneurship skills and nurture the ethics in the domain.

## PROGRAMME OUTCOMES

1. **Engineering Knowledge** – Apply knowledge of mathematics, science and engineering to solve the real life problems in Mechanical systems. An ability to analyze and interpret data.
2. **Problem Analysis** – Identify, formulate and solve Mechanical Engineering problems in thermal, manufacturing and machine design and conduct new experiments.
3. **Design/development of Solutions** – Design systems like thermal, robotics, mechatronics and machines within realistic constraints.
4. **Conduct investigations of complex problems** – Design and conduct experiments to interpret data and analyse the results.
5. **Modern Tool Usage** – To develop awareness and work on emerging technologies like CAD/CAM software's, Robotics.
6. **The engineer and society** – Understand the impact of an engineer in general and Mechanical Engineering knowledge for welfare of society in particular.
7. **Environment and Sustainability** – Develop or modify eco-friendly and highly reliable as well as sustainable systems.
8. **Ethics** – Take professional decision with a sense of ethical responsibility.
9. **Individual and team work** – Function effectively as an individual and as a member or leader in multidisciplinary and/or cross cultural teams.
10. **Communication** – Communicate effectively for achievements of goals.
11. **Project Management and Finance** – Execute disciplinary and interdisciplinary projects in day-to-day life.
12. **Life-Long Learning** – Imbibe habit of lifelong learning.

## ABOUT THE DEPARTMENT

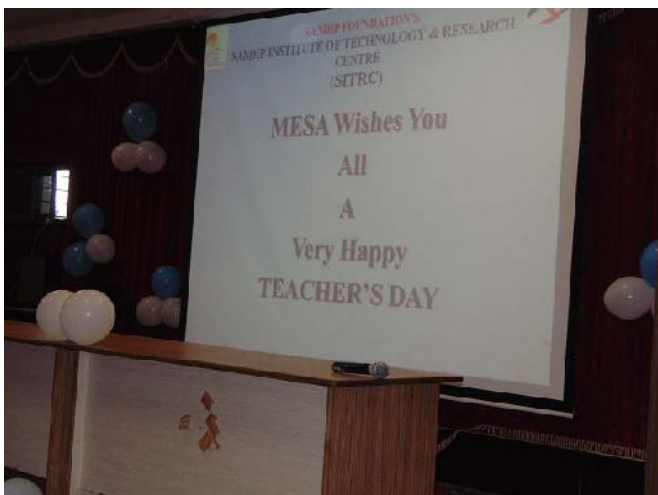
The department is having highly qualified, experienced & motivated faculty members. The department has laboratories with latest testing facilities like multifuel VCR engine, computerized UTM (capacity 100 tonnes), computerized diesel engine test rig & exhaust gas analyzer for Engines. The CAD Centre of the department armed with latest hardware & software like Pro-E wildfire-5, ANSYS, Hypermesh, Mastercam, and AutoCAD etc. Department also have MOU with Altair Engg. Corporation (India) for conducting training on HyperMesh, Radioss (Linear), HyperForm, HyperCrash etc. The strength of department enables to offer the consultancy in all fields related to Mechanical Engineering.

### Professor and Head

#### Departmental activities

#### Teacher's day Celebration

Mechanical Engineering department (MESA) had organized a Teacher's day event on 6<sup>th</sup> Sept 2016. Dean academics Prof. Dr.P.R.Baviskar , Head of the Department Prof Dr. M. M. Patil, Prof. V.A. Kolhe Inaugurated the function with the tradition of Saraswati Pujan. In this function the toppers of academic year 2015-16 and winners of different competitions were felicitated with the gift. The badges were given to each MESA committee members of 2016-17. Students performed the cultural activity in the event such as dance, poem, song etc. In the event students also shared their views regarding the Teachers day. The Staff of Mechanical engineering Department were also felicitated by the student volunteers with a Rose. Dean academics Prof. Dr.P.R.Baviskar shared their experience why the Teacher is an important of life of human being.





## Social Activity – Ganesh Idol Collection

The Program was organized by Mechanical Department fifth time in association with Nasik Municipal Corporation on 15th Sept. 2016 at Godavari river, Anandvalli in Nasik. More than 800 Ganesh idols were donated by people for re-immersion.



## Industrial Visit of TE Mechanical Students to Bill Industries, Ambad MIDC, Nashik under the subject "Hydraulics and Pneumatics"

Industrial visit to TE Mechanical Students to Bill Industries, Ambad MIDC, Nashik under the subject "Hydraulics and Pneumatics" was arranged for Third Year Mechanical Engineering Students. Total 140 Students and 05 Staffs Members were Present for the plant visit. Prof. P. S. Shirsath took the permission from Manager, Bill Industries to visit industry by considering the academic importance and practical exposure to students for Hydraulics and Pneumatics Subject. As a part of academic, it is mandatory to conduct industrial visit to a industry having applications of hydraulics and pneumatics according to T.E. Mechanical syllabus, University of Pune.



## 3 Days National level Technology Awareness Workshop Autostroke 2016

3 Days National level Technology Awareness Workshop Autostroke 2016 was organized by Department of Mechanical Engineering from 16 to 18<sup>th</sup> September 2016. This event was organized in collaboration with Codex Design Delhi and Shastra IIT Madras. The workshop was inaugurated by Principal of SITRC Prof. Dr. S. T. Gandhe, Dean Academics Prof. Dr. P. R. Baviskar and Prof. V. A. Kolhe. The Workshop was coordinated by Prof. S. D. Katkade.



## Guest Lectures

Various experts having diversified experience in the field of Mechanical Engineering were invited in the department to update the knowledge of the students about the latest trends in Mechanical Engineering. The list of these expert talks is given below.

- Mr. Onkar Khaladkar, Kirloskar, Pune, delivered guest lecture on “Energy Scenario in India & Basics of Renewable Energy” to B.E Mechanical Students on 19-09-2016.
- Mr. Onkar Khaladkar, Kirloskar, Pune, delivered guest lecture on “Energy Conservation & Energy Management” to T.E Mechanical Students on 19-09-2016.
- Mr. Ninad Salunke, Wilo Mather and Platt Pumps, Pune, delivered guest lecture on “Production Planning & Material Management” to B.E Mechanical Students on 19-09-2016. Arranged by Prof. Dr. P. R. Baviskar Prof. P. S. Garudkar.