



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

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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. The strength of department enables to offer the consultancy in all fields related to Mechanical Engineering.

**Professor and Head**

### Departmental activities

#### Teachers Day Celebration

Guru Purnima function was celebrated by Mechanical Engineering Students Association (MESA) on 20th July 2016. During this event Alumni student Prasad Nagare shared his experience with the junior students. Dean Academics Prof. Dr. P R Bawiskar , Head of the department Prof. Dr. M. M. Patil delivered the importance of Guru in life of human being. Prof Relkar, Prof Kolhe and all the teaching and non teaching staff and students of Mechanical Engineering department were present in the function. The newly elected Vice President of MESA Prathamesh Deshapnde, TE Mechanical (Div-A) was also felicitated by the all staff. Students offered a bouquet to All the staff members in their Honor.



## **Training on “Safe and Defensive Driving”**

Department of Mechanical Engg. organised training program on Safe & Defensive Driving for second year Mechanical Engineering students (127 Students attended the Program). Mr. Samson Joseph, Faculty from Mahindra & Mahindra Nasik Plant having 36 years experience in Vehicle Testing. Total Driving experience nearly 10 Lacks kilometers. He is passionate about driving, and the skills associated with Safe and Defensive Driving. In last 4 years imparted Classroom training and trained nearly 3000 Drivers and 6000 Students. Motorcycles can travel as fast as cars, but lack Car safety features such as an exterior frame to absorb crash forces instead the forces of a collision borne directly by the Bike and Rider. Motorcycle also doesn't have Seat belts which increases the Rider's of being thrown off the Bike in an accident.

The purpose as highlighted to ride vehicle in Safe and Defensive way is not to suffer and die but to enjoy and Live. This training was a grand success and this training helped our students understand the various safety norms and standards, accidental statistics & precautions, with the help of effective videos of accidents destruction while driving and importance of seat belts and abs system and other important things are explained

### **MOU**

- Mechanical Engineering Department successfully coordinated formation of Memorandum of Understanding [MoU] with
  1. Seva Engineers, Satpur
  2. Shalaka Shafts Pvt. Ltd. Ambad , Nashik
  3. Pakash Technoplast Ambad, Nashik.