



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, 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

Guest Lecture - “Career opportunities in Civil Services for Engineering Students”

Department of Mechanical Engineering, Mechanical Engineering Students Association organized Guest Lecture On “**Career opportunities in Civil Services for Engineering Students**” on 15 February 2017 by Prof. Sunil Patil, Director, Spectrum Academy, Nasik. Dr.M.M.Patil, HOD Mechanical Engineering Department felicitated Prof. Sunil Patil and his colleague. In his lecture, he explains advance methodology of learning, the detail procedure of MPSC, UPSC, Question paper format and syllabus. He also explained what are the Opportunities in Civil Services and Higher Services in the field of Mechanical Engineering. This expert talk was helpful for students in view future studies and how to Crack Civil Services examination.



"Opportunity in Entrepreneurship Simply"

Department of Mechanical Engineering organized Expert Lecture on “**Opportunity in Entrepreneurship simply**” delivered by **Mr. Vishnukant Phafat, Wake Up Skills Pvt. Ltd. Dhule** for BE Mechanical students. **Mr. Vishnukant Phafat** having vast experience in the field of entrepreneurship and he is working as a CEO & Director in Wake Up Skills Pvt. Ltd. Dhule. Entrepreneurship is the capacity and willingness to develop, organize and manage a business venture along with any of its risks in order to make a profit. Entrepreneurial spirit is characterized by innovation and risk-taking, and is an essential part of a nation's ability to succeed in an ever changing and increasingly competitive global marketplace. **Mr. Vishnukant Phafat** explained the various points to keep in mind on your entrepreneurship journey like to scale your business is to surround yourself with the best people He also discussed, . This concept can be applied to potential new staff, customers and business partners. Ask yourself who are your competitors? How successful are they? The more you know, the better position you'll be in. Marketing is the key to creating awareness and build loyalty for any business. It is the secret formula to successful business model. The truth is, the more effort you put into developing marketing campaigns, using social media and networking, the more successful you will eventually be.



Road Safety Workshop

Sandip Foundations Sandip Institute of Technology and Research Centre, Department of Mechanical Engineering has organized one day Road Safety workshop. This event was organized in association with Rushabh Honda, Nasik on 25 February 2017. The event consists of Simulator Driving, which is proven to be excellent practical and effective educational tool to impart safe driving training techniques for all drivers. The practical session of two wheeler driving was also conducted for male and female students separately. In this session guidelines given about the safety driving and what precautions have to take while driving. Mr. S. B.Nangia, Manager Safety drive Rushabh Honda and his team has conducted this event. More than 100 students participated in this Workshop. This event was organized by Mechanical Engineering Students Association (MESA).

