



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

Career Guidance on Opportunities in Civil Services

Department of Mechanical Engineering Mechanical Engineering Students Association organized guest lecture in Club Hour on “Career Opportunities in Civil Services for Engineering students” on 18th July 2017 by Mr. Harshad Dhananjay Bele, Ex. Assistant Commandant (DySP) at CRPF. Mr. Harshad Dhananjay Bele nicely explain the importance, need and different steps of civil services exams, MPSC – UPSC syllabus, recruitment to various Civil Services of the Government of India including the Indian Administrative Service (IAS), Indian Foreign Service (IFS), Indian Police Service (IPS). Mr. Harshad Dhananjay Bele gave same tips how to do the study, time management, which types of books students have to refer.

In his lecture he explains advance methodology of learning, the detail procedure of MPSC, UPSC, Question paper format, syllabus. He also explained what are the Opportunities in Civil Services and Higher Services in the field of Mechanical Engineering. Prof. V.A. Kolhe felicitated the guest.



Session on Soft-skills, Personality Development, Interview Techniques and Etiquettes

Mechanical Engineering Department organized Career Guidance Session and Session on Soft-skills, Personality Development, Interview Techniques and Etiquettes for SE Mechanical Students on 18th July 2017 & 20th July 2017. This event had overwhelming response; the session conducted for the students was fulfilled with the details to showcase their talent, communication skills and technical knowledge. Under the personality development session various techniques for facing the interviews, soft skill development, the dressing sense, built up of the self confidence, how to tackle the real life problems, and stress management were taken.



1 Day Workshop on Cyber Security

Mechanical Engineering Department, has arranged one day workshop on the topic “*Cyber Security*” for students of Mechanical Engineering on 22th July, 2017. This lecture was conducted by Patel Shoeb Atik, Founder President – Hackers Hook E Learning. The expert gave various ways of cyber security and hacking and also encouraged the students to work in the field of cyber security. He also discussed the various job opportunities available in the field of cyber security. The lecture was very timely and well appreciated by the audience. Dr P. R. Bawiskar, Dean Academics, Dr. M. M. Patil, Head Mechanical Engineering Department appreciated the students who have participated in the one day workshop.



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.