



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

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CONTENT

1. From HOD's Desk
2. From Editor's Desk
3. Vision and Mission of Dept.
4. PEO's and Program Outcomes
5. Departmental Activities

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

Value Added Program on ANSYS

The hands on training program on “**ANSYS Software**” was arranged during 4th September to 16th October 2017 for under-graduate mechanical students under Value Added Program. The objective of the program was understood the application and importance of ANSYS Software in engineering point of view. Program was organized by Department of Mechanical Engineering, SITRC, Nashik. This event was coordinated by Prof. J. N. Yadav, Assistant Professor, Mechanical Engineering Department under the guidance of Prof. (Dr.) M. M. Patil (HOD, Mechanical) & Prof.(Dr.) P. R . Baviskar (Dean Academic).

It is special purpose software which can be used for enhancement of various disciplines of CFD, electro- mechanical, heat and mass trade, assistant vibration, fluid mechanics, etc. ANSYS training deals Finite Element Method (FEM) which covers structural analysis and dynamic studies as well. FEM is used as a tool which provides a comprehensive set of elements behavior, material behavior and equation solvers for numerous mechanical problems.

This training program has been uniquely designed as per modern industry trends and keeping in mind the latest ANSYS course and syllabus based on the professional requirement of the student. Moreover, the training program also helps them to hands-on professional knowledge for achieve their careers objective. The training venue was CAD/CAD Lab at Mechanical Engineering Department of SITRC, from Morning 8:00 AM to 10:00 AM, Monday- Friday and 10:00 AM to 4:00 PM on Saturday and Sunday respectively, during month of September and October 2017.

The session was concluded by the interaction with students. And asked no. of questions regarding how they can solve fundamental engineering problems and difficulties by using ANSYS software. Altogether it was a healthy interaction and all the difficulties were satisfactory solved by the Prof. V. A. Shaikh & Prof. S. P. Awate

