



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 CONDUCTIVE
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

Engineer's Day Celebration and Project and Poster Presentation Competition





Department of Mechanical Engineering, Sandip Institute of technology and Research Centre, (SITRC) has organized “AVISHKAR 2022” Poster/Project Competition and Engineers Day Celebration in association with Savitribai Phule Pune University (SPPU) and Institution of Engineers India (IEI) on 15th September 2022. Inauguration of the event was done by Dr. S. T. Gandhe, Principal, SITRC, Nashik. During this time HOD’s and faculty members of all departments gave their presence. More than 40 projects along with poster entries of various streams of SITRC participated in project/poster competition and presented their ideas and skills through posters.

For this event, the Alumnus of 2012-13 batch Mr. Ashutosh Bhagat guided and motivated the students through his success story speech. The winners of poster presentation competition were gifted the cash prizes by the hands of Mr. Ashutosh Bhagat and Principal Dr. S.T Gandhe The cash prizes allotted to students were Rs 1500 (First), Rs 1000 (Second) and Rs 500 (Third) respectively.



Expert Lecture on Innovation and Startup Ecosystem



Expert Lecture on Innovation and Startup Ecosystem was organized by Department of Mechanical Engineering, Sandip Institute of technology and Research Centre, (SITRC) on 30th August 2022. Total 80 Students and Faculty from Mechanical, Computer, Civil, and Electrical branch were present for the expert lecture. Dr.S.T.Gandhe, Principal, SITRC, Nashik conducted Lecture on Innovation and Startup Ecosystem. Main aim of the lecture to build innovation and entrepreneurship ecosystem in educational institutions through focusing on funding opportunity for young entrepreneurs. Dr.Milind.M.Patil HOD, Mechanical Department and Faculty of different Stream were presents along with student.



Industrial Visit to Steam Power Plant at Kadva Sugar Factory for BE Mechanical students

Industrial Visit Steam power plant at Kadva Sugar Factory, Tal-Dindori, Dist Nashik was organized by Department of Mechanical Engineering, SITRC under the syllabus of Turbo Machinery subject of BE Mechanical on 29th August 2022. Total 90 Students from BE-Mechanical Class and 03 Staffs Members were present for the plant visit. Prof. J. N. Yadav, took the permission from Manager, Kadva Sugar Factory, to visit industry by considering the academic importance and practical exposure to students for Turbo Machinery Subject.

As a part of academic, it is mandatory to conduct industrial visit to a industry having applications of turbo Machinery according to BE Mechanical syllabus, SPPU, University of Pune. Mr.Ugale Chief Executive guided our students during plant visit, they had explained in detail the process flow, set up available with the sugar Factory, technical specification of the turbine and use & applications of the resources. Prof.J.N.Yadav, Prof. Santosh Katkade, Prof Pallavi Gade were present along with student.



Expert Lecture on Introduction to Python Programming

As a part of TE (Mech) 2019 curriculum students must know the Python programming. It is expected that they should solve different numerical method with Python. So the expert lecture was arranged with intension to make students aware about the Python programming. The speaker covered the basics required for Python programming, so that students can develop simple programs on their own.

The event was attended by about 75 students along with HoD Prof. (Dr.) M.M Patil, Dean Academics Prof.(Dr.) P.R. Baviskar and departmental faculty members.

