



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

Career Guidance after BE

This Guest Lecture was organized by Mechanical Engineering Department, SITRC under the Student's Chapter of The Institution of Engineers (India). The Career Guidance Lecture started with felicitation of Mr Rohan Tripathi, Senior Counselor, IEI, Belapur Local Center & Mr Husain Masalawala, Project Head, IEI Belapur Local Center, Started the session with the information about various career opportunities in Mechanical Engineering. They guided to students about various competitive exams and its processes. At last sir has started the question answering session and completes it after given satisfactory answers to student's question. This activity was coordinated by Prof. J. N. Yadav under the guidance of Prof. Dr M. M. Patil (HOD, Mechanical).



Road Safety Driving on Simulator

Sandip Foundations Sandip Institute of Technology and Research Centre, Department of Mechanical Engineering. Mechanical Engineering Students Association (MESA) has organized one day Road Safety driving. This event was organized in association with Rushabh Honda, Nasik on 24 August 2018. 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. 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.



Industrial Visit to Narang Cold Storage

Industrial visit was organized to M/s Narang Cold Storage situated in Satpur MIDC, Nashik for final year students. It has been also a part of their university curriculum under the course: Refrigeration and Air conditioning". Total 25 students from both the final year classes accompanied by 2 staff members participated in this visit. Mr. Raut welcomed all to their plant. He gave introduction about their plant activities. He showed various sections of the plant. Two batches were formed for better inspection of the plant. First students in batches were taken to compressor unit room. All the necessary technical details were given.



Career Guidance Session: What after B.E. Mechanical?

“Career Guidance Session : What after B.E. Mechanical?” was conducted on 20th September 2018 for B.E. Mechanical Engineering Students in association with 'Higher Education Cell & GATE Club' , Department of Mechanical Engineering, SITRC coordinated by Prof. Prashant B. Kuyate & Prof. Nilesh S. Jagtap. Prof. Prashant B. Kuyate had shared the some of the valuable experiences regarding the career paths, practical problems faced in general by job seeker, or the one who is preparing for competitive jobs, etc. He also explained criteria required for particular jobs like for pvt. Jobs,defense jobs, PSU jobs,etc.

This career guidance session covered the following areas:

- Developing key transferable skills for skillful jobs
- Planning and personal development skills
- Career planning and gaining employment
- Continuing to develop within a career throughout their working lifetime
- IES, IAS, IPS, IRS, GATE, GMAT, GRE, TOEFEL, IELTS, CAT, ATMA, UPSC, MPSC, Mahapariksha, SSC, IBPS, AAI, NHAI, PSUs, Banks, Government Bodies, Science Organizations, Defence Jobs, MS, PHD, Education Abroad, etc.



Aptitude Test

Department of Mechanical Engineering, Mechanical Engineering Students Association organized Aptitude test on 21st September 2018 in the hobby club between 2.30 to 3 pm. This test was organized as a part of Engineers Day Celebration. The test was conducted for 25 marks with multiple objectives. Total 100 students from Department of Mechanical Engineering, had appeared for Aptitude test.



Industrial Visit of BE Mechanical Students to Bill Industries, Ambad MIDC, Nashik

Industrial visit to BE Mechanical Students was arranged on 21st Sept. 2018 to Bill Industries, Ambad MIDC, Nashik under the subject "Hydraulics and Pneumatics". Total 126 Students and 05 Staffs Members were present for the plant visit. Prof. P. S. Shirsath took the permission from Manager, Bill Industries to visit industry by considering the academic importance and practical exposure to students for Hydraulics and Pneumatics Subject. As a part of academic, it is mandatory to conduct industrial visit to a industry having applications of hydraulics and pneumatics according to BE Mechanical syllabus, University of Pune. Mr. Kohli, Mr. Patil, Mr. Gade guided our students during plant visit, they had explained in detail the process flow, set up available with the company, technical specification of the machines and use & applications of the resources. Bill Industries are known for the Mfg Of Automobile Components Press Shop; Spot Welding Assembly And also the Supplier to Mahindra and Mahindra. This industrial visit was a very successful and students will have definitely got an added advantage of practically observing the hydraulic and pneumatic processes. For the arranging this Industrial Visit Prof. Pankaj Shirsath had taken the efforts.



Guest Lecture on Opportunities in Civil Services

Department of Mechanical Engineering, Mechanical Engineering Students Association organized Guest Lecture On “Career opportunities in Civil Services for Engineering Students” on 21st September 2018 by Mr. Asir Chand Shaikh , Newly selected as a Assistant Commissioner Sales Tax. 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.



Industrial Visit of SE Mechanical Students to ART Rubber, Nashik

As per syllabus of SE (Mech)(2015 pattern), in the subject Thermodynamics, students are supposed to visit the industrial boiler. The visit was organised at Art Rubber Industries Ltd, Ambad MIDC, Nashik on 26th Sept 2018. Art Rubber Industries Ltd. Is engaged in manufacturing and supply of automotive tubes conforming to ISO 13098:1991 standards. The Company deals with manufacturing and supplying of world class quality inner tubes of automotive tyres in the segments like rear tractor, truck, bus, LCV, passenger car, two/three wheelers. Students of S.E. Mechanical alongwith staff members visited the plant. A brief introduction about their plant activities was given. Plant operators on duty showed various sections of plant for all students batches. Student visited the boiler section where 3 boilers of capacity 1 ton are installed. Boilers were of combine type ie water tube plus fire tub.



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Poster Presentation Competition on Plastic Ain't My Bag

Department of Mechanical Engineering had organized Inter Institute Level "Poster Presentation Competition" on title "Plastic Ain't My Bag" on 8th of September 2018 under "The Institution of Engineering's (IEI) (Student's Chapter)". The session was inaugurated in the presence of honorable Principal Dr.S.T.Gandhe Sir, Dr.M.M.patil Sir Dean Administration, Dr.P.R.Baviskar Sir HOD, Mechanical and Prof.J.N.Yadav IEI coordinator. For this event more than 70 poster presented by students. Participant from different colleges from Nashik zone presented their poster. The event was full of enthusiasm and new vision towards the social awareness. The result was as follow:

I prize- Nilam Hire & Subhada Jadhav, MET,. Collage, Nashik

II Prize- Gaurav Lad & Siddhi Mahajan FE, SITRC, Nashik,

III Prize- Suyog Pawar & Saurav Shukla, TE Mech, SITRC,

Nashik Best Innovation Award-Abhishek Joshi, TE Mech, SITRC, Nashik The event concluded with the distribution of Memento and certificates to the winners, Prof.J.N.Yadav proposed the Vote of Thanks and wished success to the winning team in the upcoming rounds.

