



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

Celebration of Engineer's Day

The Engineers day Celebration Program was organized by Department of Mechanical Engineering, SITRC in association with Institution of Engineers (India) Student's Chapter at Mechanical Seminar hall on 14th September 2019. The Engineering Community across India celebrates Engineers Day on 15 September every year as a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya. "Role of Engineers in a devolving India" is the theme of Engineers. Program was started with welcome speech by student coordinator and Motivational speech for the student given by Dr.P.R.Baviskar Head of Mechanical Department. On the occasion of Engineers Day celebration, Technical Quiz competition organized by IEI Committee member for all participant and all winning student Awarded by Faculty of Mechanical Department. This activity was coordinated by Prof. J.N.Yadav, IEI Staff Coordinator, Assistant Professor, Mechanical Engineering Department under the Guidance of Prof.(Dr.) P.R.Baviskar (HOD, Mechanical) and Prof.(Dr.)M.M.Patil (Professor, Dean Administration).



Project and Poster Presentation Competition

The Project and Poster Presentation Competition celebration program was organized by Department of Mechanical Engineering, SITRC in association with Institution of Engineers (India) Student's Chapter at Mechanical Department on 20th September 2019. "Contributions of Engineers to the Society" was the theme of engineers. Program was started with welcome speech by student coordinator and digital inauguration by Dr.M.M.Patil (Professor, Dean Administration). More than 350+ students were Participated from different engineering colleges from Nashik and outside Nashik district. On the occasion of Project and Poster Presentation Competition, Poster Presentation, Model Based Project and Research Based Project Competition was organized By IEI Committee Members. For all participants and all winning students were awarded by Faculty of Mechanical Department. All winners were got with case prize , trophy and certificate This activity was coordinated by Prof. J.N.Yadav, IEI Staff Co-Coordinator, Assistant Professor, Mechanical Engineering Department under the guidance of Prof.(Dr.) P.R.Baviskar (HOD, Mechanical) & Prof.(Dr.) S.T.Gandhe (Principal , SITRC).



Value Added Program on German Language Training

The training program on “German Language” was arranged during September to October 2019 for under-graduate mechanical students under Value Added Program. The objective of the program was understood the importance & use of German Language. Program was organized by Department of Mechanical Engineering, SITRC, Nashik. This

event was coordinated by Prof. Prof.V.A.Shaikh,Prof.P.S.Shirsath,Prof.S.B.Hase, Assistant Professor, Mechanical Engineering Department under the guidance of Prof.(Dr.) P. R.Baviskar (HOD, Mechanical) & Prof. (Dr.) M. M. Patil (Dean Admin). One of the major languages of the world, German is most widely spoken native language in the European Union. German is the third most commonly spoken foreign language in the EU after English and French, making it the second biggest language in the EU in terms of overall speakers. German is also the second most widely taught foreign language in the EU after English at primary school level , the fourth most widely taught non-English language in the US. It is most commonly used scientific language as well as the third most widely used language on websites after English and Russian. This training program has been uniquely designed as per modern trends and keeping in mind professional requirement of the student. Moreover, the training program also helps them to hands-on professional knowledge about language. The training venue was classroom at Mechanical Engineering Department of SITRC, from Morning 8:00 AM to 10:00 AM, Monday-Saturday and 10:00 AM to 4:00 PM on Sunday respectively, during month of September and October 2019. The session was concluded by the interaction with students. Students asked no. of questions regarding how they can speak German language with more ease and avoid difficulties. Altogether it was a healthy interaction and all the difficulties were satisfactory solved by Mr. Mayuresh Sonawane.



Value Added Program on ANSYS

The Hands on training on “ANSYS Software” was arranged during 13th September to 30th September 2019 for TE and BE Mechanical student under Value Added Program. For this ANSYS training 20 students from third year and final year were participated. Program was organized by Department of Mechanical Engineering, SITRC. The main aim of the program was students understand the application and importance of ANSYS Software in Engineering Field. This activity was coordinated by Prof. J.N.Yadav, Assistant Professor, Mechanical Engineering Department under the Guidance of Prof.(Dr.) P.R.Baviskar (HOD, Mechanical) It is general purpose software which can be used for reenactment of various disciplines of electro mechanical, warmth and mass trade, assistant vibration, fluid mechanics, etc. ANSYS training deals FEA which covers structural analysis and dynamic studies as well. FEA 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 content and syllabus based on the professional requirement of the student. Moreover, the training program also helps them to get placement in Multinational companies and achieve their career objectives. This training taken at CAD/CAD Lab at Mechanical Department of SITRC in month of September 2019 from morning 8:00AM to 10:00AM in working day and on Saturday and Sunday holiday which covers 60hrs. The session was concluded by the interactions with students. Students asked no. of question regarding how they can solve difficult problems related actual engineering field by using ANSYS software. Altogether it was a healthy interaction and all the difficulties were satisfactorily solved by the Prof.V.A.Shaikh & Prof.S.P.Awate.





Industrial Visit at Essey Engineering Company Industrial Visit at Essey Engineering Company

Industrial Visit at Essey Engineering Company F-34,.MIDC,Satpur Colony, Nashik was organized by Department of Mechanical Engineering, SITRC under the syllabus of Hydraulics and Pneumatics subject of BE Mechanical on 04th October 2019. Total 110 Students from BE-A and BE-B Class and 06 Staffs Members were present for the plant visit. Prof. J. N. Yadav took the permission from Manager, Essey Engineering Company 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, SPPU, University of Pune. Mr. Kiran Patil Production Engineer 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. Prof.J. N. Yadav, Prof. Swapnil Awate, Dr. Vishal Shulakhe, Dr. Dipenkumar Rajak, Prof. Pratap Garudkar, & Mrs. Varsha Bangar were present along with student.



Awareness about Fire & General Safety at Workplace

An expert lecture on “Awareness about Fire & General Safety at Workplace” was organized by Mechanical Engineering Department of Sandip Institute of Technology & Research Centre under “The Institution of Engineering’s (IEI) (Student’s Chapter)”. The purpose of the program was to make students aware about Fire & General Safety at Workplace. During this program Mr. Amol K. Raundal shared his experience about Fire & General Safety at Workplace. Mr. Amol K. Raundal explained the fire as steady state of exothermic, self catalyzed chemical reaction

with the characteristics ability to propagate through a combustible medium usually a fuel & oxidizer generally atmospheric oxygen. He also gave their actual life experiences and explained students, that the classes of fires as A (wood, paper, cloth, trash & other ordinary materials) B (Gasoline, oil, paint & other flammable liquids) C (may be use on electrical equipment) D (use on combustible metals) K (use on combustible cooking media).



Teachers Day Celebration

Mechanical Engineering Department (MESA) had organized a Teacher's day event on 5th Sept 2019. Dean Admin Prof Dr.M.M.Patil, Head of the Department Prof. Dr.P.R.Baviskar and all faculties of Mechanical Engineering Department were present for the function. In this function the toppers of academic year 2018-19 were felicitated with the gift. Head of the Department Prof. Dr.P.R.Baviskar shared views about Teachers Day and role of teachers in society. In the event students also shared their views regarding the Teacher's day. The Staff of the Mechanical engineering Department were also felicitated by the student volunteers with a Rose. The program ended with the Pasaydan.

