GEARHEADS' GAZETTE

Department of Mechanical Engineering, SIT, Pune.

Magazine 2021-22

From the H.O.D's Desk

COLONEL (DR)
ANAND PANDEY
PROFESSOR AND HEAD,
MECHANICAL ENGINEERING DEPARTMENT

Vision

The Department of Mechanical Engineering envisions to be recognized as a leader in offering a value-based education by disseminating knowledge, skills, and empowering students for better career opportunities.

Mission

I. To promote value-based education in Mechanical Engineering by facilitating professional ethics & experiential learning for better employability.

2. To encourage students to excel in research, innovation & entrepreneurship skills for addressing societal needs.

3. To enhance students' skills by promoting industrial & international collaborations to foster global competencies.

Mechanical Engineering Department has more than twenty highly qualified teaching faculty with specializations in Design, Thermal, Manufacturing and CAD/CAM.

Their research areas include computational fluid dynamics, e-mobility, industry 4.0, 3D printing, advanced composite materials, optimization, lean manufacturing, HVAC systems and more.

The department has fully equipped laboratories like I.C. Engines lab, Strength of Materials lab, Theory of Machines lab, CAD lab, Refrigeration / Air Conditioning lab, Heat Transfer lab, Automobile Engineering lab, workshop and others.

Vision and Mission

Vision

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Mission

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Program Educational Objectives

1. Apply the fundamental knowledge & skills of Mechanical Engineering to analyse and solve real-world technical problems along with international significance.
2. Demonstrate creative, critical, and design thinking abilities by solving research problems in mechanical engineering of social relevance.
3. Communicate effectively and work as a team in multi-disciplinary domains with an entrepreneurial attitude and leadership qualities.

Trending this Semester...

- Visit from Dassault Systéms R&D
- Participation in ProTech 2022
- Webinar on Scope of Mechanical Engineering in Digital Era

Industry Connect

Team from Dassault Systèmes R&D India visited Symbiosis Institute of Technology in the presence of Shri J R Pathare, Chief HR Symbiosis Society and Dr M S Shejul, Registrar, SIU

Involvement of Team SIT-
Dr Ketan Kotecha Rahee, Walambe Anindita Roy Dr. Chandrakant R. Sonawane, Dr Anand Pandey Dr.Arunkumar Bongale, Dr. Shruti Patil, Dr. Deepali Vora Dr Meena Laad, Dr. Pritesh Shah, Dr. Paresh S. Nasikkar, Sashikala Mishra, Dr. Om mishra, Dr. Harshal Patil, Dr. Shwetambari Chiwhane was phenomenal.

Industry Connect

As an Academic Institute committed to make our students Industry ready, Mechanical Engineering Department signed a MOU with D2O Learning. D2O learning works in Sustainable Energy, Green Building and Energy Audits and is supporting learners to meet their career goals right from entering to the job market and changing fields to seeking promotion and exploring for Green Jobs in Sustainability Industry.

We are greatful for the initiative taken by Dr Anirban Sur, Professor Mechanical Engineering. Thanks to support from Deputy Director-Administration, Dr Nitin Khedkar, Deputy Director-Academics Dr Arundahati Warke and Dr C R Sonawane, I/c Head, Mechanical Engineering Department.

Events

The Department of Mechanical Engineering participated in ProTech2022 organized by Symbiosis Institute of Technology, on 12th July, 2022. It was a National Level competition and exhibition showcasing innovative, societal and eco-friendly tech ideas.

Department of Mechanical Engineering, Symbiosis Institute of Technology, Pune organized an exclusive seminar for Mechanical Engineering Aspirants to understand the scope of Mechanical Engineering in Digital Era.

Events and Activities

Mechanical Engineering Department invited young enthusiastic minds to be a part of SYMBITECH, the annual technical festival of SIT, on 11th and 12th of October, 2022.

Events and Competitions

Lathe Wars
Make a product from the raw metal rods using the lathe machine and tools

3D Model Design
Design a model on AutoCAD to 3D print it

Laser Cutting
make 2D design on AutoCAD, Laser cut and assemble

FloataR1G
design a floating platform for deep sea wind farms that must withstand turbulent current, high speed winds and changing tides while efficiently generating power

Model Testing: Constructo
On-spot model making consists of a bridge framed structures using balsa sticks and ice cream sticks

Model Testing: Resilience
Get your measurements right with precision and accuracy & build the tallest building to withstand the two most powerful forces of nature- wind & earthquake load.

Car parts assembly
assemble the parts and make a car

SYMBI TECH 2022

Symbiosis Institute of Technology brings back its very own and well-renowned technical fest with added zest and enthusiasm this year. For the first time, it is planned to be a centralized national-level event. Everyone, regardless of their branch, will come together to showcase the perfect two days. SymbITech will help young minds broaden their vision and surrender to their instincts for knowledge.

Theme: **Cosmos**

Date: **11-12 October 2022**

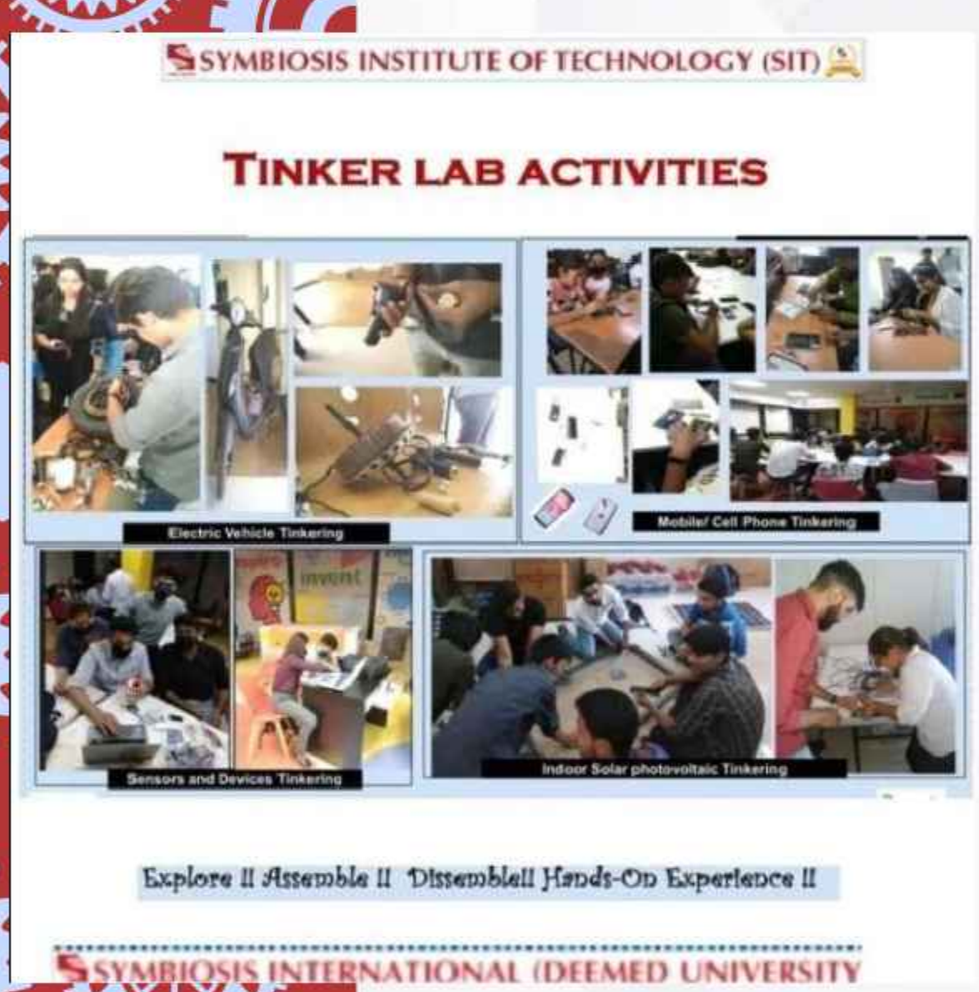
Venue: **Symbiosis Institute of Technology, Lavale, Pune**

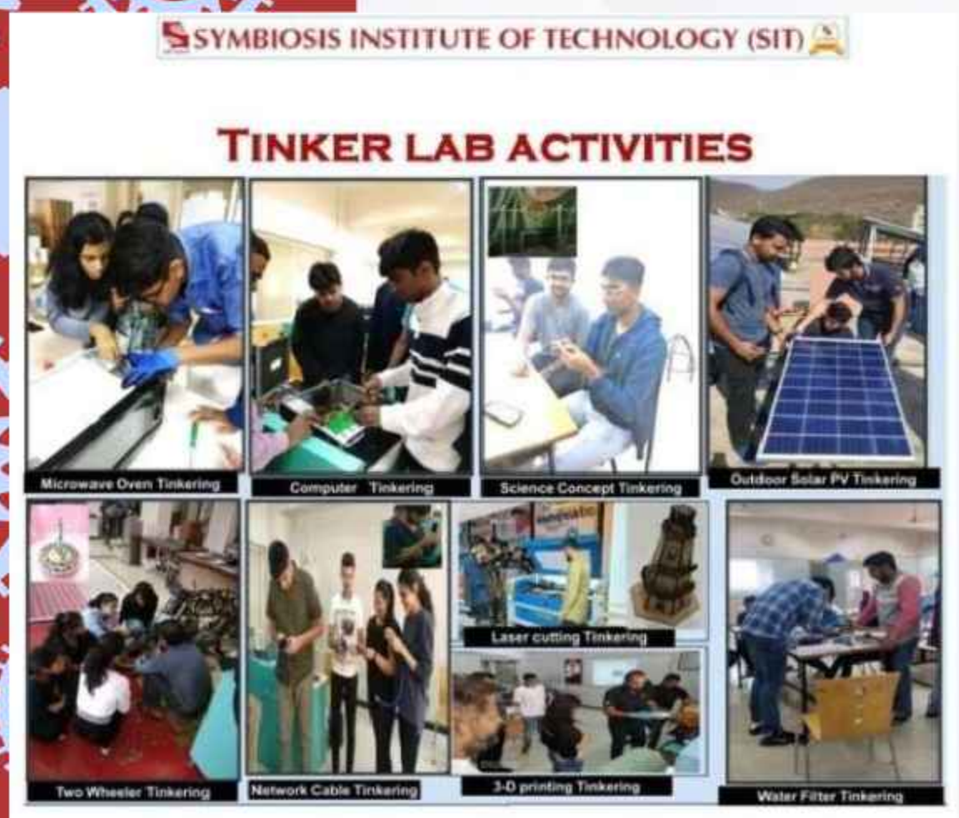
Lathe wars, 3D Model Design, Laser Cutting, Car parts assembly were some of the exciting events planned by Mechanical Engineering Department.

Events and Activities

Tinkering at SIT, is an idea proposed by our Director Dr Ketan Kotecha and amazingly executed by the faculties of all the departments, and one of the most enjoyed activity for all the first year students!

Department of Mechanical Engineering also steps in with its very own unique ideas for Tinker Lab activities





Some of exciting activities at Tinkering are:

- IOT Sensor Based Activities
- Lan Cable Crimping
- Laser Cutting
- Microwave Assembly-Disassembly
- Mobile Computing
- Canva/Animaker/Poster and Website Creation

Tinker Lab is a place where Science meets Innovation!

Placements

We are proud to announce that our B.Tech students of Mechanical branch of batch 2021, Mr. Aditya Singh, Mr. Swapnil Naikwadi and Mr. Utkarsh Nath got placed in Dassault Systems with a package of 5.4 LPA.

We are proud to announce that our B.Tech student of Mechanical branch of batch 2022, Mr. Nischal Mijar got placed in Tecnimont with a package of 5.5 LPA

Industrial Visits

Tell me and I forget. Teach me and I remember. Involve me and I learn. Memories fade with time and lessons are forgotten, but experiences shape a human being and leave a lasting mark

Mechanical Engineering Department has left no stone unturned to give the best exposure to students in graspin gkey concepts

Glimpses of Second year students visit to Reinshaw Metrology Systems Ltd. was worth once a lifetime experience. Experts shared their insight on new tools and technology in the field.
Thanks to whole hearted efforts
of Prof Vikas Gulia and Team Mechanical for making it happen

Experential Learning at Mechanical Engineering Department, Symbiosis Institute of Technology

Students of Second and Third Year Mechanical Engineering had a great learning opportunity when they visited Pune Metro at Shivajinagar underground metro construction site.

Students along with faculty members Dr. Nitin Solke and Mr Nilesh Shelar experienced a group metro return ride rom Garware Station to Vanaz.nstitute of Technology

Students' Achievement

Arnav Sharma and Rudresh Kurhe, final year students of Mechanical Engineering Department won the first position in Intelliswift's i-innovate smart hackathon with a prize money of RS 75,000/-.
The team presented a product " light weight smart helmet" originally conceptualized by their mentor Dr Anirban Sur.

Congratulations to the students, mentor and Prof Sararaj Shaikh and Prof Ismail Akhbani for their support and guidance.
Department is proud and encourages innovative and competitive spirit in the students!!!

Alumni Meet

Alumni plays a vital role in nurturing and sustaining the pursuit of excellence over a long time-horizon.

Some glimpses of recent Alumni meet with 2018-22 batch are shared. We are all happy to see you in flying colors and wish you a bright future ahead !!!

Congratulations to Zenab Hussain for being nominated for Bank of Baroda Award for Best in Sports and Gomes Alyssa for Award "Best in Academics"

The Editorial Team

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