

MECHANICAL ENGINEERING DEPARTMENT



YASHO TECH MECH

WE ARE GEARS OF TOMORROW

Vol. 1 | Issue 1

Even Sem 2024-2025



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

OVERVIEW OF THE DEPARTMENT

The Mechanical Engineering program leading to the bachelor's degree in Mechanical Engineering (B. Tech.) is having a structured curriculum that prepares students for a broad range of career choices in the different areas of Engineering. The Course is intended for students whose career objectives require greater flexibility. Mechanical Engineering deals with material selection, design and production of tools, machines, and all other Mechanical equipment to be used in industries. Our Department prepares the students who are the driving forces behind many of our technologies and industrial processes including innovative products.

The Mechanical Engineering Department has been accredited with institute level accreditation program by National Assessment and Accreditation Council (NAAC) with B+ grade.

Our Departmental faculties are specialized in areas like Thermal Engineering, Design, Materials and Manufacturing & CAD/CAM etc. Our Students have been recruited in many reputed organizations.

Strength of Department

- Good infrastructure.
- Well-equipped laboratories.
- Well-qualified and experienced teaching faculties.
- Departmental Library facility for students.
- Personal Monitoring of Students with the help of Guardian Faculty Members
- Good academic performance
- Good Campus Placement Record
- Faculty Retention

Vision of the Department

To be identified as a department with excellence in academics by synergism of teaching-learning, skill development and research.

Mission of the Department

M1 : To develop state of the art facilities to stimulate faculty, staff and students to create, analyze, apply and disseminate knowledge.

M2 : To hone employability and entrepreneurship skills of the students through industry-institute interaction.

M3 : To create an environment for the students to excel in mechanical engineering field, engage in research and development activity and participate in professional activities.

M4 : To develop an ability to use techniques, skills, modern software and machine tools necessary in the practice of Mechanical Engineering Profession.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

Program Educational Objectives (PEOs)

PEO1 : Graduates should excel in engineering positions in industry and other organizations that emphasize design and implementation of engineering systems and devices.

PEO2 : Graduates should excel in best post-graduate engineering institutes, acquiring advanced degrees in engineering and related disciplines.

PEO3 : Alumni should establish a successful career in an engineering-related field and adapt to changing technologies.

PEO4 : Graduates are expected to continue personal development through professional study and self-learning.

PEO5 : Graduates should be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical and societal responsibilities.

Program Specific Outcomes (PSOs)

PSO1 : Make the students employable in engineering industries.

PSO2 : Motivate the students for higher studies and research.

Vision of the Department

To be identified as a department with excellence in academics by synergism of teaching-learning, skill development and research.

Mission of the Department

M1 : To develop state of the art facilities to stimulate faculty, staff and students to create, analyze, apply and disseminate knowledge.

M2 : To hone employability and entrepreneurship skills of the students through industry-institute interaction.

M3 : To create an environment for the students to excel in mechanical engineering field, engage in research and development activity and participate in professional activities.

M4 : To develop an ability to use techniques, skills, modern software and machine tools necessary in the practice of Mechanical Engineering Profession.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

INSIDE

1. STUDENT ARTICLES

2. FACULTY ARTICLES

3. FACULTY STUDENT CORNER

4. Art Gallery

Contributors

Faculty Name

Prof. Rathod M L

Prof. Maner V B

Prof. Nimbalkar P P

Prof. Raut S K

Prof. Atpadkar A B

Prof. Amitkumar Jagdale

Student coordinators

Nishat Irshad Nadaf

Prerna Chetan Mane

Radha Sachin Jangam

Soham Sunil Salunkhe

Gaurav Jitendra Gaikwad

Atharv Vitthal Sawant

Atharva Sandeep Sawant

All
Students of
Department

Head of the Department
Dr. Tarang Shinde

Principal
Prof. Dr. Vikram S Patil

Vision of the Department

To be identified as a department with excellence in academics by synergism of teaching-learning, skill development and research.

Mission of the Department

M1 : To develop state of the art facilities to stimulate faculty, staff and students to create, analyze, apply and disseminate knowledge.

M2 : To hone employability and entrepreneurship skills of the students through industry-institute interaction.

M3 : To create an environment for the students to excel in mechanical engineering field, engage in research and development activity and participate in professional activities.

M4 : To develop an ability to use techniques, skills, modern software and machine tools necessary in the practice of Mechanical Engineering Profession.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

DIPEX 2025

Second Year students of the Department of Mechanical Engineering visited DIPEX 2025 Project Exhibition at COEP Technological University Ground, Pune on April 5th 2025. The student could witness the projects in different categories and they could enrich themselves with this experience of an o u t p u t out of a teamwork.

YSPM's Yashoda Technical Campus, Satara



Vision of the Department

To be identified as a department with excellence in academics by synergism of teaching-learning, skill development and research.

Mission of the Department

M1 : To develop state of the art facilities to stimulate faculty, staff and students to create, analyze, apply and disseminate knowledge.

M2 : To hone employability and entrepreneurship skills of the students through industry-institute interaction.

M3 : To create an environment for the students to excel in mechanical engineering field, engage in research and development activity and participate in professional activities.

M4 : To develop an ability to use techniques, skills, modern software and machine tools necessary in the practice of Mechanical Engineering Profession.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

Tooling 2025 Conference

Dr. T. R. Shinde, Associate Professor and Head of the Department of Mechanical Engineering presented a paper titled "Influence of Microstructure on Fatigue Life of Cryogenically Treated AISI H13 Steel" at International Conference Tooling 2025 held at Grant Hotel, Trento, Italy from March 24 to March 26th 2025.



Prof. Raut Satish Keru from Department of Mechanical Engineering has participated and successfully completed the Three days Faculty Development program on "Entrepreneurship and Innovations in Mechanical Engineering" held During 10/03/2025 to 12/03/2025 organized by Department of Mechanical Engineering, Yashoda Technical Campus, Faculty of Polytechnic, Satara





YSPM's Yashoda Technical Campus, Satara
YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHIO TECH MECH

Even Semester

2024-25

ROTAREX 2025 EXHIBITION

Second Year, Third Year and Final Year students of Mechanical Engineering participated in Rotarex 2025 Project exhibition organized by Rotary Club of Satara in association with DIET, Satara.





YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

SESSION ON THE OCCASION OF IPR DAY

Mechanical Engineering students Association (MESA) and Institution's Innovation Council (IIC) jointly celebrated the IPR day on April 25th 2025. On this occasion, IPR expert Mrs. A. G. Jagtap, Associate IP, LEGASIS Pvt. Ltd. Pune delivered an expert session on the basics and applications of IPR to Second year and Third year degree students.





YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

INTELLECTUAL PROPERTY UTSAV

Prof. V. B. Maner has successfully participated in the Masterclass series under IP Utsav, organised virtually by the All India Council for Technical Education (AICTE) and the Ministry of Education's Innovation Cell (MIC) from 21st to 26th April 2025.



NPTEL ONLINE CERTIFICATION

Prof. V. B. Maner (with Elite & Silver medal) and Prof. A. H Jagdale has successfully completed the NPTEL course on Design Thinking - A Primer.





YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

Prof. M. L. Rathod has successfully completed the NPTEL course on Soft Skill Development



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MR RATHOD MAHESH LAXMAN
for successfully completing the course
Soft Skill Development

with a consolidated score of **52** %

Online Assignments	14.96/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 17346

Jan-Mar 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL25HS72S640900099 To verify the certificate No. of credits recommended: 2 or 3

Technical Events at YashoTechFest 2025

The Department of Mechanical Engineering successfully organized two dynamic and engaging technical events during YashoTechFest 2025, fostering creativity, innovation, and practical application of engineering concepts among students. The events—Paper Plane Aerodynamics Race and 3D Model War using SolidWorks—received an overwhelming response and enthusiastic participation from budding engineers. More than 70 students were participated in both events.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Even Semester

2024-25

SESSION CHAIR AT AN INTERNATIONAL CONFERENCE

Dr. Tarang R. Shinde, Associate Professor and Head of the Department of Mechanical Engineering worked as a session chair at an International Conference “Advancement in Engineering and Science: Recent Trends and Applications (ICAESRTA-2K25) held at KBP College of Engineering Satara on June 13th and 14th 2025.



International Conference on "Advancement in Engineering & Science: Recent Trends & Applications (ICAESRTA - 2K25)"
13th and 14th June 2025

Track 2: Recent Advancement in Material, Manufacturing,
Thermo-fluid and Design Engineering

Session Chair

Dr. Tarang Shinde

Associate Professor, HOD, Department of Mechanical
Engineering Yashoda Technical Campus, Satara







Mechanical Engineering Students Gain Industry Exposure

Mechanical Engineering students from Yashoda Technical Campus, Satara, recently completed valuable industrial visits on June 10, 2025, to Ajinkyatara Co-operative Sugar Factory Ltd. and Shree Renuka Sugars Pvt. Ltd... These visits were a key part of their Applied Thermodynamics Lab curriculum.

The students gained practical experience with various industrial systems, including boilers, nozzles, turbines, condensers, calorimeters, air compressors, and centrifugal blowers. The visits were highly informative, providing insights into sugar production processes and cogeneration plants.



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department



YASHODA TECH MECH

Even Semester

2024-25

Mechanical Faculty Participates in One-Week STTP on “Bridging AI & Robotics: Future of Intelligent Machines”

The Mechanical Engineering Department faculty members—Dr. T. R. Shinde, Dr. Sadanand Sarapure, Mr. V. B. Maner, Mr. A. B. Atpadkar, and Mr. S. H. More—took part in a one-week training program from July 15 to 19, 2025. The program, called “Bridging AI & Robotics: Future of Intelligent Machines,” focused on how Artificial Intelligence and Robotics work together to create smart machines. It included expert talks, hands-on workshops, and group discussions about the latest trends in AI and robotics. This activity shows the department’s dedication to learning new technologies and preparing students for the future.





Shaping the Future Through Engineering Motion

Mechanical Engineering drives progress by transforming ideas into powerful machines, smart systems, and sustainable solutions. Through innovation, precision, and resilience, engineers convert motion into impact—building industries, empowering technology, and shaping a smarter, stronger, and sustainable future for the next generation.

- 1. Strengthen Core Fundamentals**
- 2. Focus on Sustainable Design**
- 3. Optimize Motion and Energy**
- 4. Integrate Multidisciplinary Skills**
- 5. Encourage Research and Innovation**
- 6. Maintain Safety and Ethics**
- 7. Develop Industry Ready Skills**

Slogan