



YASHODA TECHNICAL CAMPUS SATARA

Faculty of Engineering

Yashotechmech

TECHNICAL MAGAZINE

MECHANICAL ENGINEERING DEPARTMENT

Vol. 1 | Issue 1
(2026-27)

From
Ideas
to
Innovations

*Engineering a
Better Tomorrow*



DESIGN &
MANUFACTURING



THERMAL &
FLUIDS



AUTOMOTIVE
SYSTEMS



MECHATRONICS
& ROBOTICS



SUSTAINABLE
TECHNOLOGIES



RESEARCH &
INNOVATION

LEARN | EXPLORE | INNOVATE



YSPM's Yashoda Technical Campus, Satara

Mechanical Engineering Department

YASHO TECH MECH

Odd Semester

2025-26

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.

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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 : Apply Modern tools and skills to develop an engineering knowledge.

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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 J

Head of the Department
Dr. Tarang.R. Shinde

Student coordinators

Nishat Irshad Nadaf
Prerna Chetan Mane
Soham Sunil Salunkhe
Gaurav Jitendra Gaikwad
Radha Sachin Jangam
Atharv Vitthal Sawant

All
Students of
Department

Principal
Dr. Vikram.S. Patil

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•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.



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Online Faculty Development Program on “Additive Manufacturing for Sustainable Applications”

ABOUT INSTITUTE

Yashoda Technical Campus (YTC), Satara is one of the best Engineering college in Satara, established in 2011, nurtured and managed by Yashoda Shikshan Prasarak Mandal's, Satara. YTC is functioning proactively to provide the best professional environment to Engineering and Management students to create true aesthetically sensitive, socially committed and technologically competent engineers and management professionals. YTC is by Approved by All India Council of Technical Education, Delhi & Directorate of Technical Education, Mumbai; Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Mumbai and also accredited by NAAC.

ABOUT DEPARTMENT

The Department of Mechanical Engineering was started in the year 2011. The department conducts Undergraduate and Post-Graduate programs in Mechanical Engineering Degree at present.

- (i) B. Tech. in Mechanical Engineering
- (ii) M. Tech. in Mechanical Engineering

The Mechanical Engineering department rigorously follows the Outcome Based Education in their teaching-learning process. Department has various advanced laboratories including 3-D printing facility and Mechanical Workshop. A separate CAD/CAM/CAE laboratory has been developed with various advanced software packages such as CATIA, ANSYS, AutoCAD, SolidWorks etc.

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CHIEF PATRONS

Hon. Prof. Dashrath Sagare
Founder, President

Yashoda Shikshan Prasarak Mandal, Satara

Hon. Prof. Ajinkya Sagare
Vice President

Yashoda Shikshan Prasarak Mandal, Satara

PATRONS

Hon. Dr. Pratapsinh K. Desai
President, ISTE, New Delhi

Hon. Dr. Ranjit K. Sawant,
Chairman, ISTE, Maharashtra-Goa Section

Mr. Ganesh Suravase
Registrar, Yashoda Shikshan Prasarak Mandal, Satara

Hon. Dr. Vikram S Patil
Principal, YTC, Faculty of Engineering, Satara

CONVENER

Dr. Tarang Shinde
HOD, Department of Mechanical Engineering
YTC, Faculty of Engineering, Satara

ISTE SECRETARY

Mr. A. N. Shaikh
Member Secretary, ISTE Faculty Chapter
YTC, Faculty of Engineering, Satara

CO-ORDINATORS

Dr. Sadanand Sarapure
Associate Professor
YTC, Department of Mechanical Engineering

Mr. Sunil More
Assistant Professor

ORGANIZING COMMITTEE

Prof. A V Jagtap
Prof. S K Raut
Prof. A B Atpadkar
Prof. A H Jagdale

Prof. V B Maner
Prof. M L Rathod
Prof. P P Nimbalkar
Prof. N M Mulla



YSPM'S

Yashoda Technical Campus

Faculty of Engineering
Wadhe Phata, Satara (M.S), 415011



ISTE Approved
One-Week Online
Faculty Development Program

On
“Additive Manufacturing
for Sustainable
Applications”

18th August To 22nd August 2025

Organized by
Department of Mechanical Engineering

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Faculty Achievements - August 2025

Faculty members of Department of Mechanical Engineering actively participated in various Faculty Development Programmes (FDPs) to enhance their knowledge and skills.

·Mr. Raut Satish Keru, Assistant Professor, successfully completed a One-Week Online FDP on “Technological Advancements in HVAC&R, Research and Innovation in Space & Automobile Air Conditioning System” organized by ISHRAE, MSIT Kolkata, and PMEC Berhampur (22nd - 26th July 2025) and other.

·Mr. Nihal Munir Mulla, Assistant Professor, attended a 2-Week FDP on SolidWorks for advanced learning in design tools.

Dr. T. R. Shinde, Prof. N. M. Mulla, Prof. P. P. Nimbalkar, Prof. A. H. Jagdale attended a Faculty Development Program on Digital Foundries: Integration of IOT, Robotics & Automation at TKIET Warnanagar on August 18-20th 2025.



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YASHO TECH MECH

Odd Semester

2025-26



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Mechanical Engineering Department

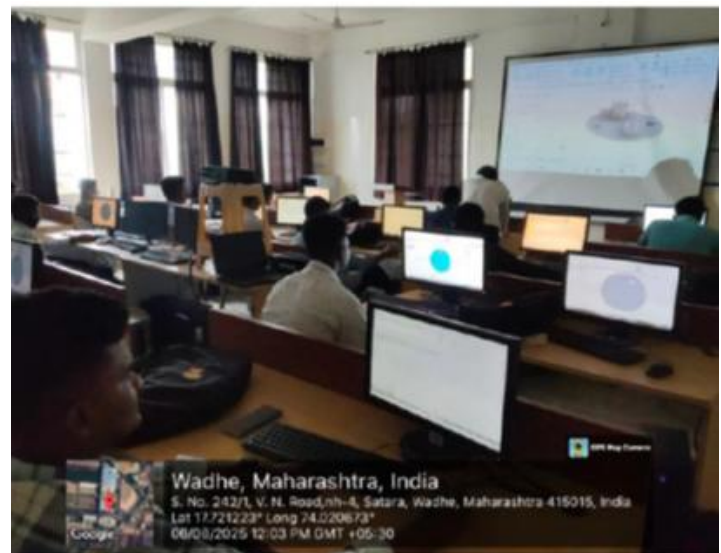
YASHO TECH MECH

Odd Semester

2025-26

Solid Works Training Program

Students of Second Year Mechanical successfully completed the training program on Solid Works organized by Department of Mechanical Engineering and CAD/CAM Bridge Pune from August 4th to August 8th 2025.



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Odd Semester

2025-26

The Department of Mechanical Engineering conducted a Two-Week Student Development Program (SDP) titled “Hands-on Robotics Lab: Programming, Sensor Integration, and Microcontroller Interfacing for Pick and Place Robots”, scheduled from 4th to 14th August 2025 for final-year B.Tech. Mechanical Engineering students.



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YASHIO TECH MECH



2025-26

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to
VASIM BASHIR MANER
for successfully completing the course
Product Design and Development
with a consolidated score of **80** %

Online Assignments	24.17/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **1255**

Jul-Aug 2025
(4 week course)

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Prof. Ranjana Pathania,
Professor (ISE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL25ME1215346700054 To verify the certificate No. of credits recommended: 1 or 2



To be identified as a department with excellence as a department syncretizing teaching and learning by skill development and research.

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YASHO TECH MECH

Odd Semester

2025-26

Alumni Meet 2025

Department of Mechanical Engineering organized alumni meet on September 13th 2025 where 35 alumni were present from 2015 batch onwards. Alumni interacted with current students, faculty members and visited different labs of the department.



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Mechanical Engineering Department

YASHO TECH MECH

Odd Semester

2025-26

Project Exhibition

Final Year Mechanical students participated in the Project Exhibition Innovation 2k25 organized by Cummins Ltd, Phaltan and College of Engineering Phaltan on October 9th 2025.



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TECH-XPLORE 25- Poster Presentation Competition

The Department of Mechanical Engineering, Yashoda Technical Campus, Satara organized “TECH-XPLORE 25 - Poster Presentation Competition” on 15th October 2025, celebrating the birth anniversary of Dr. A. P. J. Abdul Kalam.



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Odd Semester

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Industrial Visit-Cummins

SY and TY Mechanical students of the Department of Mechanical Engineering visited Cummins Industries, Phaltan on October 16th 2025 as a part of study of Engine and its components. The visit was coordinated by Prof. P. P. Nimbalkar, Prof. A. H. Jagadale and Prof. M.L. Rathod.



Vision of the Department

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Odd Semester

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IIC Regional Meet 2025

Dr. Tarang R. Shinde, Associate Professor & Head of the department of Mechanical Engineering attended Institution's Innovation Council Regional Meet held at Symbiosis Institute of Technology, Lawale, Pune on November 28th 2025.



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Odd Semester

2025-26

Avishkar Zonal Round Participation 2025

Ms. Prerna Mane, TY Mechanical student presented a poster at Avishkar 2025 Zonal round held at Sanjay Bhokare Group of Institute's College of Engineering Miraj on November 15th 2025.



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Industrial Visit: Welflow Industries Satara

Students of Second Year B. Tech. Mechanical visited Welflow Industries Satara as a part of Industrial visit for Material Science and Metallurgy course. The students witnessed induction hardening process, Magnetic Particle Inspection Process, Vacuum Hardening, Nitriding processes. The visit was coordinated by Dr. T. R. Shinde, Prof. M. L. Rathod and Mr. P. R. Shelar.



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Odd Semester

2025-26

Industrial Visit: The Tea Factory, Mysuru

Students of Third Year B. Tech. Mechanical visited The Tea Factory, Mysuru as a part of Industrial visit. The students witnessed manufacturing process of tea including the working of food processing equipment. The visit was coordinated by Prof. M. L. Rathod.



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Avishkar 2025: Institute Level Round

The institute level round of Avishkar 2025 a project presentation competition was held on November 4th 2025 at Faculty of Engineering Yashoda Technical Campus Satara. The students from First year to M.Tech. presented various projects in the form of Powerpoint presentation in six disciplines. Dr. T. R. Shinde, Associate Professor & Head of the department of Mechanical Engineering coordinated the activity along with department coordinators.



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STUDENT SLOGAN

**“Dream Big, Learn Continuously, and Turn Every
Challenge into an Opportunity.”**

— Prerna Chetan Mane —