



YASHODA SHIKSHAN PRASARAK MANDAL'S

YASHODA TECHNICAL CAMPUS, SATARA
DEPARTMENT OF CIVIL ENGINEERING

CONSTRMATix

DEPARTMENT OF CIVIL ENGINEERING

JANUARY - JUNE 2025





Yashoda Technical Campus, Satara

Department of Civil Engineering

CONSTRUMATIX

JANUARY - JUNE 2025

PRESIDENT'S DESK



Founder, President

Hon. Prof. Dasharath B. Sagare

Welcome you to YSPM's Yashoda Technical Campus, Satara an Institution which inculcates true values while disseminating quality education for shaping the career of our students. All our institutes are approved by the concerned statutory bodies and fulfill all the norms and standards laid down by them. Our technical campus is located in a lush green, pollution free, picturesque environment. Our institutes have well qualified, experienced and student caring faculty members, well equipped laboratories, spacious lecture hall and tutorial rooms, ICT tools enabled smart classrooms, Seminar halls, well maintained rich library, e-library, wi-fi enabled premises, computer center with internet facility, and a playground with sports facilities, separate gymnasium for Boys and Girls students. We emphasize on overall personality development of our students. Our faculty pays attention to each student to focus on their strength and to develop confidence. We provide students a platform to excel not only in academics but also in co-curricular and extracurricular activities. We encourage individual growth, team building, industry interaction and multi-disciplinary study culture. Amenities provided by our institutes include transport facility, hostel facility, reprographic facility, Cafeteria, STD/PCO, Medical Centre, Cooperative store etc. We are committed to impart value based quality education along with development of positive attitude, skills and abilities to apply knowledge in order to meet the challenge of future. I extend my best wishes for your bright and prosperous future.

PRINCIPAL'S DESK



Principal

Prof. Dr. Vikram S. Patil

GREETINGS TO ALL!

I am really honored and feel very privileged to function as the Principal of Yashoda Technical Campus (YTC), Satara. Let me take this opportunity to thank the Management, Yashoda Shikshan Prasarak Mandal (YSPM), Satara for giving me an opportunity to serve the community here in YSPM family. We believe that the existence, growth, survival and future of every Educational Institute will long lasting only if that Institute make and keep the students & parents and all the stakeholders of the Institute feel very happy and satisfied. The students & parents will be happy only if they get their expectations and dreams are fulfilled for which the student has taken an admission in the Institute. This can be achieved only if every entity in an Institute works with Academic Excellence, Research Excellence and Training & Placement Excellence, along with Overall Development of the student to serve the society thereby excelling and ensuring EXCELLENCE IN TECHNICAL EDUCATION with OUTCOME BASED EDUCATION. Our Institute Growth lies in Institute Motto that is "**PARENTS AND STUDENTS DREAMS ARE OUR INSTITUTE MISSIONS**". Therefore, I appeal everyone to join together in achieving the aim "**A HAPPY STUDENT, A HAPPY PARENT, AND A HAPPY & MOST PREFERABLE INSTITUTE**".



YASHODA INSTITUTES, SATARA

ENGINEERING (B.TECH)

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- COMPUTER SCIENCE & ENGINEERING
- CIVIL ENGINEERING
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HOD DESK



Head of Department

Prof. Dr. Abhijit M Zende

At YSPM's Civil Engineering Department through our rigorous academic programs, state-of-the-art, research initiatives, and hands-on experiential learning opportunities, we strive to provide our students with the knowledge, skills, and mindset necessary to excel in the dynamic field of civil engineering. Our esteemed faculty members, who are leaders in their respective areas of expertise, are dedicated to fostering an environment of innovation, critical thinking, and collaboration. Together, we aim to inspire creativity, drive excellence, and instill a strong sense of social responsibility in our students. As you navigate through our technical magazine, I encourage you to explore the myriad opportunities available to you, from cutting-edge research projects to industry partnerships and professional development resources. Whether you are a prospective student, a current student, alum, or a member of the broader engineering community, we are here to support you on your journey. I am immensely proud of the achievements of our students, faculty, and staff, and I am confident that together, we will continue to push the boundaries of what is possible in the field of civil engineering. Thank you for your interest in our department...!!

EDITORIAL DESK



Editor In Chief

Prof. Mr. Ajinkya S Shah

On behalf of the Editorial Board, it is with great pride and sincere privilege that I am writing this message to present **Constromatix**, a biannually published technical magazine. Launching this magazine would not have been possible without the great and much appreciated contributions from the technical team. Our team expects similar sort of sincere dedication from the writers in near future. Civil the oldest branch as traced in the history of engineering has a huge potential and a wide scope to work in. Constromatix focuses not only the trending topics on the civil field but also the achievements of students and staff which reflect the emerging talents of Civil Department. It has been and always will be a platform for the students to showcase their talent whether it be technical, cultural or sports field. Here students get the chance to post articles on their area of interest and also the trending topics in the field of Civil Engineering. The only mission of Civil Department is to provide undergraduate students with quality technical knowledge in the field of civil engineering and build in them leadership and managerial skills along with social awareness and gratitude towards society.



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OVERVIEW OF DEPARTMENT

Welcome to the Department of Civil Engineering at YSPM's Yashoda Technical Campus, Satara. The department has been immensely successfully working from 2011 in the field of Professional Knowledge and advanced technical world. The department offers 4 years Bachelor of Technology in Civil Engineering.. The department undergoes several curricular and extra-curricular activities throughout the year. The department is having mixture of well experienced and young, enthusiastic faculty members who are involved in industry institute interaction besides their day to day teaching activities. The Department of Civil Engineering at Yashoda Technical Campus (YTC) delivers latest knowledge in Civil Engineering . It prepares students for careers in industry, academia, and also create young entrepreneurs.

STRENGTH OF DEPARTMENT

- Well Qualified, Experienced staff
- Good infrastructure
- Well-equipped laboratories
- Excellent academic performance
- Departmental Library facility for students.

Vision of the Department

To become a center of excellence by producing Civil engineers having research and development activity, sound technical knowledge, professional skills and social awareness to serve society.

Mission of the Department

M1: To impart quality technical education through interactive teaching learning methods.

M2: To promote research and development activity by encouraging creativity and exposure to real world problems.

M3: To mentor students for innovative thinking with relevance to entrepreneurship.

M4: To develop social awareness in graduates to serve society.

Program Educational Objectives (PEOs)

PEO1: Demonstrate technical expertise, leadership and ethical qualities to design & execute Civil Engineering Projects.

PEO2: Exhibit qualities of teamwork with effective communication, lifelong learning to address real world civil engineering problems.

PEO3: Develop sensitivity towards environment and society for sustainable development including disaster management.

Program Specific Outcomes (PSOs)

PSO-1: The graduates will analyze and mitigate the natural disasters for the effective disaster management.

PSO-2: The graduates will be able to acquire sound technical knowledge to analyze and work on critical civil engineering issues

PSO-3: The graduates will be enhancing professional abilities to meet industrial need.



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Editor-in-Chief

Prof. Ajinkya S. Shah

Academic co-ordinator

Prof. Chandrahas B. Patil

Head of the Department

Dr. Abhijit M. Zende

Principal

Prof. Dr. Vikram S. Patil

CONTRIBUTORS

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Prof. Alfaj N Shaikh

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Ms. Madhura L Vanjari



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PRE-ENGINEERED BUILDING (PEB)



A Pre-Engineered Building (PEB) is a modern construction system in which the structural components are designed, fabricated, and assembled in a factory before being transported to the site for quick installation. The main parts of a PEB include the primary framing (columns and rafters), secondary framing (purlins and girts), and roof and wall panels. These components are made of high-strength steel and are engineered to meet specific design requirements such as load capacity, wind resistance, and building dimensions. Because they are pre-designed and pre-fabricated, PEBs allow for faster and more accurate construction compared to traditional concrete or brick structures.

All fabrication work is done in a controlled factory environment, there is minimal on-site labor and reduced construction time. This not only lowers project costs but also ensures consistent quality and precision. PEBs are also lightweight yet strong, reducing the load on foundations and allowing for large, clear spans without internal columns. This makes them ideal for structures like warehouses, industrial sheds, factories, shopping centers, and aircraft hangars, where open space and quick setup are essential.

Pre-engineered buildings are highly sustainable and adaptable. They produce less waste during manufacturing and can easily be dismantled, relocated, or expanded to meet future needs. The steel used is recyclable, and modern insulation options make PEBs energy-efficient, helping reduce long-term operational costs. With their flexibility in design, durability, and eco-friendly features, PEBs have become a preferred solution in modern construction, revolutionizing the way large-scale buildings are designed and built.

Mr. Sarthak G Chaware (Final Year Civil)



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AN AUTOMATIC PLASTER MACHINE



An automatic plaster machine is an advanced construction device designed to mechanize the process of plastering walls and ceilings, significantly reducing manual labor and increasing efficiency. It consists of components like mixing unit, pump, delivery hose, and spray nozzle, which work together to mix and apply plaster uniformly onto surfaces. The machine can handle a variety of plaster materials like cement, gypsum, and lime, making it suitable for different construction needs. By automating the process, it ensures consistent coating thickness, smooth finishes, and faster coverage compared to traditional hand plastering methods.

One of the main benefits of using an automatic plaster machine is its ability to save time and labor costs. Traditional plastering is a physically demanding and time-consuming task that requires skilled workers, while the machine can cover large wall areas quickly with minimal manpower. This not only boosts productivity but also reduces fatigue and human error. The machine provides a uniform and high-quality surface finish, improving the overall appearance and durability of the walls. Moreover, it helps in minimizing material wastage, as the plaster is applied precisely and efficiently.

Automatic plaster machines are especially useful in large-scale projects such as commercial buildings, residential complexes, tunnels, and industrial facilities. They enhance safety on construction sites by reducing the need for workers to perform strenuous manual tasks. In addition, these machines are easy to operate, maintain, and transport, making them a practical choice for modern construction companies aiming for speed and precision. With their combination of efficiency, quality, and cost-effectiveness, automatic plaster machines have become an essential tool in the advancement of the construction industry.

Ms. Madhura L Vanjari (TY Civil)



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Sustainable Construction: Innovations and Practices for a Greener Future



In recent years, sustainable construction has become a vital focus in the field of civil engineering. As the world grapples with climate change, resource depletion, and environmental degradation, the construction industry – one of the largest consumers of natural resources and energy – is actively seeking innovative ways to reduce its impact. Sustainable construction is about designing, building, and operating structures that minimize environmental footprints while promoting the health and well-being of occupants and communities.

• Eco-Friendly Materials

One of the cornerstones of sustainable construction is the use of environmentally friendly materials. Traditional construction relies heavily on concrete and steel, whose production generates significant carbon emissions. Today, alternatives such as recycled concrete aggregates, fly ash, bamboo, and engineered timber are gaining popularity. These materials not only reduce the carbon footprint but also often improve durability and reduce costs.

• Green Building Techniques

Sustainable construction incorporates various design strategies to optimize resource use. Energy efficiency is a prime focus, with designs that maximize natural lighting and ventilation to reduce reliance on artificial lighting and HVAC systems. On-site waste management, including sorting and recycling construction debris, helps minimize landfill use.

• Innovations in Sustainable Construction

Technology is transforming sustainable construction. Building Information Modeling (BIM) allows engineers and architects to create highly accurate digital representations of projects, enhancing collaboration and reducing material waste. Emerging technologies like 3D printing enable precise fabrication of components, cutting down excess material use.

• Challenges and Future Directions

Despite its many benefits, sustainable construction faces challenges such as higher upfront costs, limited availability of some materials, and a need for specialized training. Government incentives and policies are crucial to encourage adoption across the industry. Moreover, ongoing research and development continue to open new possibilities for greener construction methods.

Prof. Vijaya P Pawar



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Machine Learning in Civil Engineering

Civil engineering is often thought of in terms of concrete, steel, and construction sites. But a quiet revolution is underway—one that involves data, algorithms, and artificial intelligence. Machine learning (ML), once the realm of computer scientists and tech startups, is now making its way onto construction sites, into design offices, and under the ground we walk on. The question isn't whether machine learning has a place in civil engineering—it's how soon it will become essential.

Smarter Structures: Learning from Data

Every structure tells a story—about the loads it bears, the stresses it faces, and the way it responds to its environment. Traditionally, engineers have relied on physical inspections and analytical models to assess a structure's condition.

Computer vision is also playing a growing role. Engineers can now use drones and image-recognition algorithms to automatically scan structures for cracks, corrosion, or deformation—work that once took days now takes minutes.

Understanding the Ground Beneath Us

In geotechnical engineering, machine learning is improving our understanding of soil behaviour—a notoriously complex area. Instead of relying solely on manual testing, engineers can now feed soil data into ML models to quickly estimate critical properties like shear strength or settlement risk.

Smarter Cities Start with Smarter Roads

Traffic. We all hate it—but machine learning might be part of the solution. In the field of transportation engineering, ML helps predict traffic flow, optimize traffic lights, and even identify accident-prone areas before accidents happen.

On the maintenance side, road surfaces can now be monitored using high-resolution cameras and ML algorithms that detect cracks or potholes automatically.

Predicting Floods, Pollution, and More

In environmental engineering, machine learning is proving to be a powerful tool for modeling natural systems. It can forecast flooding events, estimate air pollution levels, and help manage water supply systems more efficiently.



Prof. Alfaj N. Shaikh



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STUDENT'S ACHIEVEMENTS

Mr. Ajit J Dounde
Elite NPTEL Certification
in
Remote Sensing Essentials



Ms. Shweta B Kadam
Elite NPTEL Certification
in
Remote Sensing Essentials

Mr. Alim A Maner
Elite NPTEL Certification
in
Remote Sensing Essentials



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FACULTY ACHIEVEMENT



Dr. Abhijit M Zende

ATAL certification on Sustainable Smart Cities: Integrating Technology and Infrastructure

Mrs. Vijaya P Pawar
ATAL certification on Artificial Intelligence in Disaster Mitigation and Resilient Structure Design



Mr. Ajinkya S Shah

ATAL certification on Sustainable Smart Cities: Integrating Technology and Infrastructure



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**FACULTY ACHIEVEMENT**

Prof. Alfaj N Shaikh
NPTEL- ELITE course on Effective Engineering Teaching in Practice.



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

This certificate is awarded to
ALFAJ NAJIR SHAIKH
 for successfully completing the course

Effective Engineering Teaching in Practice

with a consolidated score of **60** %

Online Assignments	10.42/25	Proctored Exam	49.38/75
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Total number of candidates certified in this course: **865**

Prof. Andrew Thompson
 Chair
 Center for Outreach and Digital Education, IITM

Jan-Feb 2025
 (4 week course)

M. Vignesh
 Prof. Vignesh Muthuvijayan
 NPTEL Coordinator
 IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL25GE095340900041 To verify the certificate

No. of credits recommended: 1 or 2



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

This certificate is awarded to
MRS VIJAYA PRALHAD PAWAR
 for successfully completing the course

Construction Methods and Equipment Management

with a consolidated score of **60** %

Online Assignments	21.85/25	Proctored Exam	38.28/75
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Total number of candidates certified in this course: **67**

Jun-Mar 2025
 (8 week course)

Prof. T.V. Shant
 Chair
 Head, Center for Outreach and Digital Education, NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

Roll No: NPTEL25CE11541000083 To verify the certificate

No. of credits recommended: 2 or 3

Mrs. Vijaya P Pawar
NPTEL- ELITE course on Construction Methods and Equipment Management.

Mr. Chandrahas B Patil
NPTEL course on Emotional Intelligence



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

This certificate is awarded to
CHANDRAHAS BHIMRAO PATIL
 for successfully completing the course

Emotional Intelligence

with a consolidated score of **58** %

Online Assignments	19.13/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **3220**

Jan-Mar 2025
 (8 week course)

Prof. Haimanti Banerji
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL25HS165540900005 To verify the certificate

No. of credits recommended: 2 or 3

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DEPARTMENTAL ACTIVITY

Sr. No.	Activity Name	Date	Coordinator	Remark
1	Industrial Visit for under construction Elevated Service Reservoir	07/04/2025	Mrs. V. P. Pawar	Class: Third Year
2	Industrial Visit to Residential Construction Site	08/04/2025	Mr. C. B. Patil	Class: Second Year
3	YashoTechFest 2K25	09/10/2025 to 10/10/2025	All Faculty	All students of the department
4	A one-day workshop on the Business Model Canvas	28/05/2025	Mr. A. N. Shaikh	All students of the department
5	Guest Lecture on - Plastic & E-waste Management	05/07/2025	Mr. P. G. Borate	All students of the department
6	Study Tour at Yana Caves, Marvanthe Highway, Murudeshwar Temple, Mahabaleshwar Temple Gokarna, Elevate Service Reservoir Karwar and Salaulim Dam, Karnatak	05/07/2025 to 07/07/2025	Mr. Shah A S, Ms. Salve A V and Ms. Khalate R P.	Class: Third Year
7	Guest Lecture on Structural Audit Report	18/06/2025	Mr. A. S. Shah	Class: Third Year



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JANUARY - JUNE 2025

STUDENT FACULTY CORNER

Events, Guest Lectures organized at Department



YashoTechFest 2K25



Guest lecture on Structural Audit Report



Guest Lecture on - Plastic & E-waste Management



A one-day workshop on the Business Model Canvas



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INDUSTRIAL VISIT ORGANIZED BY DEPARTMENT



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