



YASHODA SHIKSHAN PRASARAK MANDAL'S

YASHODA TECHNICAL CAMPUS, SATARA

DEPARTMENT OF CIVIL ENGINEERING

CONSTRUMATIX

DEPARTMENT OF CIVIL ENGINEERING

JULY - DECEMBER 2025





Yashoda Technical Campus, Satara

Department of Civil Engineering

Constromatix

JULY - DECEMBER 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**".



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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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Hoover Dam



Hoover Dam is a concrete arch-gravity dam constructed across the Colorado River in Black Canyon, on the Nevada–Arizona border. The dam has a structural height of 221.4 m (726 ft) and a crest length of 379 m (1,244 ft), with a base thickness of approximately 200 m (660 ft) and a crest thickness of about 14 m (45 ft). It contains roughly 3.25 million cubic meters (4.36 million cubic yards) of concrete in the dam body, with additional concrete in the power plant and appurtenant works. The dam creates Lake Mead, which has a maximum storage capacity of about 35.2 billion cubic meters (28.9 million acre-feet). The spillway system consists of two overflow spillways (one in each abutment) with a combined discharge capacity exceeding 11,000 m³/s.

The hydroelectric power plant at the toe of the dam contains 17 main Francis turbines (plus 2 smaller units), with a total installed capacity of approximately 2,080 MW. The maximum hydraulic head is about 180 m (590 ft). The diversion system during construction included four diversion tunnels, each about 17 m (56 ft) in diameter. The dam functions structurally through a combination of gravity action (self-weight resisting overturning) and arch action (transferring loads to the canyon walls). It also includes intake towers, penstocks of large diameter steel pipes, outlet works for controlled releases, and a comprehensive foundation grouting system to reduce uplift and seepage.

Mr. Yash P Waskar (Final Year Civil)



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KUMBHALGARH FORT



Kumbhalgarh Fort, located in the Rajsamand district of Rajasthan, India, is a 15th-century hill fort constructed under the reign of Rana Kumbha of Mewar. Strategically built on the Aravalli ranges at an elevation of approximately 1,100 meters above mean sea level, the fort demonstrates advanced military architecture adapted to rugged topography. The fortification wall extends about 36 kilometers in length, making it one of the longest continuous defensive walls in the world. The walls range from 4.5 to 15 meters in thickness, enabling multiple horsemen to ride abreast. Constructed primarily from locally available stone masonry bonded with lime mortar, the fort incorporates massive bastions, fortified gateways (pols), watchtowers, and stepped access routes designed to enhance defense and surveillance.

The internal layout of Kumbhalgarh Fort reflects sophisticated planning for self-sufficiency and long-term defense. It houses over 300 temples (both Jain and Hindu), palaces such as the Badal Mahal, water reservoirs, stepwells, and storage structures to sustain inhabitants during prolonged sieges. The fort's water management system utilizes gravity-fed collection, surface runoff harvesting, and strategically located tanks to ensure a reliable water supply in a semi-arid climate. Its defensive design includes multiple concentric walls, narrow प्रवेश passages, and elevated vantage points to resist enemy advances. Recognized as a UNESCO World Heritage Site under the Hill Forts of Rajasthan, Kumbhalgarh represents an outstanding example of medieval Rajput military engineering & sustainable hill construction.

Ms. Sakshi V Pawar (Final Year Civil)



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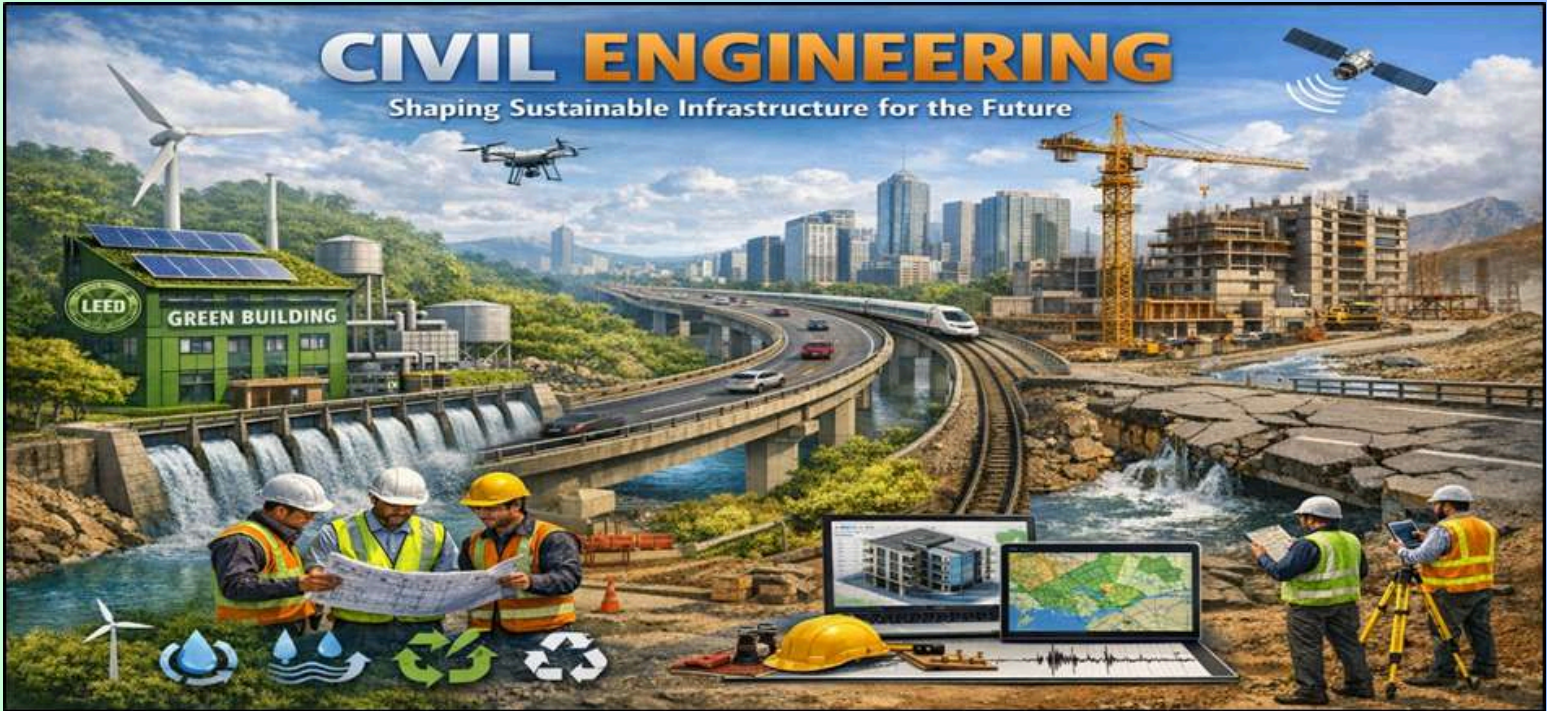
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Civil Engineering: Shaping Sustainable Infrastructure for the Future



Civil Engineering is one of the oldest and most fundamental branches of engineering, playing a crucial role in shaping society and supporting economic development. From ancient monuments and water systems to modern highways, smart cities, and sustainable infrastructure, civil engineers contribute to nation-building through the planning, design, construction, and maintenance of essential facilities such as roads, bridges, dams, buildings, and water supply systems. In a developing country like India, the responsibility of civil engineers is even greater, as they support rapid urbanization, rural development, and the creation of safe, durable, and efficient infrastructure that improves the quality of life.

In recent years, civil engineering has evolved to emphasize sustainability, innovation, and disaster resilience. The growing challenges of climate change and rapid urban expansion have increased the demand for green buildings, efficient water management, recycled construction materials, and energy-efficient structures. Modern technologies such as GIS, remote sensing, BIM, and drone surveys are transforming traditional engineering practices into smarter and more precise solutions. Additionally, civil engineers play a vital role in disaster mitigation by designing structures resistant to earthquakes, floods, and other natural hazards. Through strong academic training, practical exposure, and ethical practice, civil engineers continue to create sustainable and resilient environments for present and future generations.

Prof. Vijaya P Pawar



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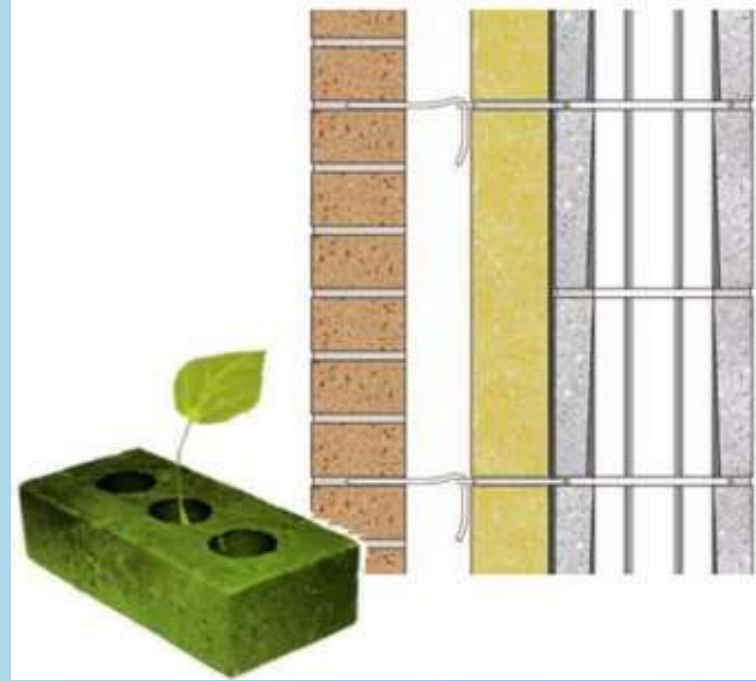
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High Performance Masonry (HPM)

Masonry is rapidly transforming from a traditional construction method into a high-performance building system that integrates advanced materials, digital design tools, and sustainability principles. Modern high-performance masonry (HPM) systems are engineered not only for compressive strength but also for structural ductility under wind and seismic loads, enhanced thermal resistance and airtightness, superior fire performance, and long-term durability with minimal maintenance. Innovations such as insulated and high-thermal concrete masonry units (CMUs), polymer-modified mortars, high-strength grouts, geopolymer and low-clinker binders, and integral water repellents have significantly improved strength, energy efficiency, moisture control, and service life. These advancements enable masonry to compete with steel and concrete systems while supporting complex architectural forms, long spans, and optimized wall geometries.



At the design level, digital modeling, finite element analysis, and performance-based codes allow engineers to fully utilize arching action, diaphragm interaction, and advanced reinforcement strategies to create slender, efficient, and resilient structures. Emerging technologies such as robotic assembly and early-stage 3D printing are further enhancing precision and enabling intricate geometries. Sustainability is a central focus, with increased use of local materials, optimized unit shapes to reduce waste, lower-carbon binders, and Environmental Product Declarations (EPDs) supporting life-cycle assessment. By combining thermal mass, continuous insulation, and robust air barrier systems, high-performance masonry aligns with fabric-first standards, delivering energy-efficient, durable, and resilient building envelopes suited to future construction demands.

Prof. Alfaj N. Shaikh



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STUDENT ACHIEVEMENTS



Ms. Shweta B Kadam
Felicitations of Final Year Topper by
Builder's Association of India, Satara
Chapter on 15/09/2025 on the
occasion of Engineer's Day



Mr. Shahid N Mulla
Felicitations of Third Year Topper by
Builder's Association of India, Satara
Chapter on 15/09/2025 on the
occasion of Engineer's Day



Mr. Atharv S Shelar
Felicitations of Second Year Topper by
Builder's Association of India, Satara
Chapter on 15/09/2025 on the
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STUDENT ACHIEVEMENTS



Certificate for Completion of QCad Training



This is to certify that **MADHURA VANJARI** has successfully completed **QCad** test organized at **YSPMs Yashoda Technical campus, Faculty of Engineering** by **Ashwini Kadam** with course material provided by **EduPyramids, SINE, IIT Bombay**. Passing an online exam, conducted remotely from **IIT Bombay**, is a pre-requisite for completing this training.

Aitaj Shaikh from **YSPMs Yashoda Technical campus, Faculty of Engineering** invigilated this examination. This training is offered by **EduPyramids, SINE, IIT Bombay**.

Credits: 1 | Score: 48.00%

14 July 2025

Ashwini Kadam
In-charge, Spoken Tutorial
Institute EduPyramids, SINE, IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimate of the work required to complete them. Recipient institutions are required to apply due diligence and get them validated/modified by their own duly formed academic/measurement body. Spoken Tutorial activity was initiated at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education, Govt. of India.



Certificate for Completion of QGIS Training



This is to certify that **SAKSHI PAWAR** has successfully completed **QGIS** test organized at **YSPMs Yashoda Technical campus, Faculty of Engineering** by **Ashwini Kadam** with course material provided by **EduPyramids, SINE, IIT Bombay**. Passing an online exam, conducted remotely from **IIT Bombay**, is a pre-requisite for completing this training.

Aitaj Shaikh from **YSPMs Yashoda Technical campus, Faculty of Engineering** invigilated this examination. This training is offered by **EduPyramids, SINE, IIT Bombay**.

Credits: 2 | Score: 72.50%

14 July 2025

Ashwini Kadam
In-charge, Spoken Tutorial
Institute EduPyramids, SINE, IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimate of the work required to complete them. Recipient institutions are required to apply due diligence and get them validated/modified by their own duly formed academic/measurement body. Spoken Tutorial activity was initiated at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education, Govt. of India.

QCad Training Certificate

QGIS Training Certificate



Certificate for Completion of QCad Training



This is to certify that **UTKARSH KATHALE** has successfully completed **QCad** test organized at **YSPMs Yashoda Technical campus, Faculty of Engineering** by **Ashwini Kadam** with course material provided by **EduPyramids, SINE, IIT Bombay**. Passing an online exam, conducted remotely from **IIT Bombay**, is a pre-requisite for completing this training.

Aitaj Shaikh from **YSPMs Yashoda Technical campus, Faculty of Engineering** invigilated this examination. This training is offered by **EduPyramids, SINE, IIT Bombay**.

Credits: 1 | Score: 44.00%

14 July 2025

Ashwini Kadam
In-charge, Spoken Tutorial
Institute EduPyramids, SINE, IIT Bombay

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Certificate for Completion of QGIS Training



This is to certify that **SHAHD MULLA** has successfully completed **QGIS** test organized at **YSPMs Yashoda Technical campus, Faculty of Engineering** by **Ashwini Kadam** with course material provided by **EduPyramids, SINE, IIT Bombay**. Passing an online exam, conducted remotely from **IIT Bombay**, is a pre-requisite for completing this training.

Aitaj Shaikh from **YSPMs Yashoda Technical campus, Faculty of Engineering** invigilated this examination. This training is offered by **EduPyramids, SINE, IIT Bombay**.

Credits: 2 | Score: 62.50%

14 July 2025

Ashwini Kadam
In-charge, Spoken Tutorial
Institute EduPyramids, SINE, IIT Bombay

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Certificate

It is certified that **Dr. Abhijit Maheshwar Zambh**, Associate Professor of Yashoda Technical Campus, Faculty of Engineering, Satara has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **SUSTAINABLE PRACTICES AND INNOVATIVE TRENDS IN CIVIL ENGINEERING** at **DR LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING** from 18/11/2025 to 13/12/2025.

Arumma Mahapatra
Assistant Professor Level (AICTE Institute), Coordinator
DR LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

ATAL/2025/1760367979

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
[AICTE Training and Learning \(ATAL\) Academy](#)

Certificate

It is certified that **Mr. Shaikh Abij**, Assistant Professor of YTC Satara has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **Disaster Mitigation and Resilience: A Framework for Future Infrastructure** at **SREE CHAITANYA COLLEGE OF ENGINEERING** from 27/10/2025 to 01/11/2025.

Shi Rama Chand Modhara
Associate Professor Level (AICTE Institute), Coordinator
SREE CHAITANYA COLLEGE OF ENGINEERING

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

ATAL/2025/1766847499

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Certificate

It is certified that **Mr. Yashwanth Bhagwan Keshavn**, Faculty members of the AICTE approved institutions of YSPM Yashoda Technical Campus, Satara has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **Industry-Academia Synergy in Disaster Management and Resilient Infrastructure for Advancing Sustainable Development** at **DR. ASHOK GUJAR TECHNICAL INSTITUTE'S DR. DAULATRAO AHIR COLLEGE OF ENGINEERING** from 23/12/2025 to 27/12/2025.

Madhav Bhalschandra Kamthekar
Professor Level (AICTE Institute), Coordinator
DR. ASHOK GUJAR TECHNICAL INSTITUTE'S DR. DAULATRAO AHIR COLLEGE OF ENGINEERING

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to
PRASHANT GAJANAN BORATE
for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **78 %**

Online Assignments	20.29/25	Proctored Exam	57.4/75
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Total number of candidates certified in this course: 1958

Aug-Oct 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL25GE63S36820014 To verify the certificate No. of credits recommended: 2 or 3

Elite

NPTEL ONLINE CERTIFICATION

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This certificate is awarded to
AJINKYA SUBHASH SHAH
for successfully completing the course

Accreditation and Outcome Based Learning

with a consolidated score of **86 %**

Online Assignments	22.46/25	Proctored Exam	63.52/75
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Total number of candidates certified in this course: 1958

Aug-Oct 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL25GE63S36820014 To verify the certificate No. of credits recommended: 2 or 3

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

Accreditation and Outcome Based Learning

with a consolidated score of **80 %**

Online Assignments	21.04/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: 1958

Aug-Oct 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL25GE63S468200115 To verify the certificate No. of credits recommended: 2 or 3

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- ELECTRICAL ENGINEERING
- ELECTRONICS & TELECOMMUNICATION ENGINEERING
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Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus, Satara Department of Civil Engineering

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JULY - DECEMBER 2025

STUDENT FACULTY CORNER

Celebration of
Teacher's Day



Farewell Celebration



International Placement
Achievement
Mr. Sahil B Shevate



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Yashoda Technical Campus, Satara Department of Civil Engineering

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JULY - DECEMBER 2025

Events, Guest Lectures organized at Department



One-day workshop on "GeM Portal and E-Tendering"

YASHODA TECHNICAL CAMPUS, SATARA
FACULTY OF ENGINEERING

Celebrating
WORLD ENTREPRENEURSHIP DAY

Entrepreneurship Career and Funding Opportunities for early stage entrepreneurs

MR. HARSHAD JOSHI **MR. NIKHIL PAWAR**

CEO, ROCKLIKE TECHVENTURES, SATARA

EXPERT SPEAKER'S

THU. 21/08/2025
TIME-10.30 AM

VENUE-BLUE SEMINAR HALL

ROCKLIKE TECHVENTURES

Guest lecture on Entrepreneurship Career & Funding Opportunities for Early-Stage Entrepreneurs

Yashoda Technical Campus
Faculty of Engineering,
Wadhe Phata, Satara (M.S.), 415011
Department of Civil Engineering

ISTE Approved
One-Week Online Faculty Development Program
On
"Application of Geospatial Techniques in Civil Engineering"

Speaker Mr. Vaibhav B. Kashyap Assistant Professor, Civil Engg Dept, Yashoda Technical Campus, Satara	Speaker Dr. Sandeep Pandey Associate Professor, Gujarat Institute of Disaster Management, Gandhinagar	Speaker Dr. Sangita Mishra Associate Professor & Head, Amity School of Engineering & Technology (ASTE), Mumbai
Speaker Dr. Manivasagam V. S. Assistant Professor(SO), Dept. of Agriculture Informatics, Amrita Vishwa Vidyapeetham, Coimbatore	Speaker Mr. Jamir S. Bagwan Scientist - C, Central Water and Power Research Station (CW&PRS), Pune	
Speaker Dr. Abhijit M. Zende Associate Professor & Head, Civil Engineering Dept, Yashoda Technical Campus, Satara	Speaker Dr. Sachin. K. Patil Vice Principal, Ghanta Institute of Technology, Lavel, Ratnagiri	
Speaker Dr. Aakash Kumar Founder & CEO SAGE, Mumbai	Speaker Dr. Rajat Kumar Panda Associate Professor, Khalikote Unitary University, Berhampur, Odisha.	
Speaker Dr. Madhav B. Kumthekar Retired Principal, Government College of Engineering, Nagaur	Speaker Dr. Sanjay A. Patil Head & Resource Scientist, MRS&C, Planning Dept., Government of Maharashtra	

04-09th August 2025
Morning Session-10am to 12:30pm
Evening Session-3pm to 5pm
Online Mode - Google Meet

Scan the QR for the Registration Link



Poster Presentation & Tech Xplore 2K25

FDP on Application of Geospatial Techniques in Civil Engineering

YASHODA INSTITUTES, SATARA

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JULY - DECEMBER 2025

INDUSTRIAL VISIT ORGANIZED BY DEPARTMENT



GPS Map Camera

Satara, Maharashtra, India 🇮🇳
 Satara, Kshetra Mahuli, Satara, Maharashtra
 415003, India
 Lat 17.689409° Long 74.063088°
 Monday, 10/11/2025 11:48 AM GMT +05:30

Google



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