



Parshvanath Charitable Trust's

A. P. SHAH INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai

(Religious Jain Minority)



Department of Civil Engineering

Academic year 2024-2025

NIRMAAN

(निर्माण)

The best way to predict future is to build it...

(Volume – VIII)

Editorial Team

Faculty



Editor

Prof. Vishal Misal

Students



Ms. Jagruti Bhoir



Mr. Aditya Darde

Patrons



Shri Chirag A. Shah
Hon. Chairman



Mrs. Pooja C. Shah
Hon. Trustee

Our Advisors



Dr. Uttam D. Kolekar
Principal



About APSIT

A. P. Shah Institute of Technology (APSIT) has started functioning with commitment of imparting state of art technical education so as to inculcate conceptual know-how, analysing skills, decision making abilities and leadership qualities in the students. APSIT stands committed to the intellectual and moral growth of every student.

APSIT has experienced and proficient team which aspires to unlock the hidden potential in subconscious minds of students and to create competent Engineers with vision & social commitment.

Vision

APSIT aspires to be a premier institute producing globally competent engineering professionals to contribute towards socio-economic growth of India.

Mission

To provide conducive and collaborative environment to meet contemporary & future Engineering challenges by project based and value-added education with the support of trained faculty.

From Principal's Desk



It is my privilege to throw a light on our Institute, dedicated to the quality technical education with all round development of the students to be competent professional Engineers of tomorrows to serve the society. We have exemplary infrastructural facilities, well equipped laboratories, separate computer centre, the team of highly qualified faculty and the exhilarating atmosphere in the campus will surely take you to enviable heights in your capabilities and achievements.

We have research oriented, challenge seeking, well qualified and devoted faculty to train the students in quality technical education. The ultimate aim of our management and staff is to get higher percentage to our students and place them in multi-national companies. We conduct project based and value-added education with the support of trained faculty, Seminars, Workshops, STTP, National and International conferences to update the development in science technology.

I believe that the institute will continue to produce competent technocrats and managers who will make significant contribution to the corporate world and industries all over the world which will enable them to serve as global citizens.

I appreciate the editorial team for their sincere effort in bringing the Newsletter of Civil Engineering Department.

With best wishes

Dr. Uttam D. Kolekar

About the Department

The Department of Civil Engineering at A. P. Shah Institute of Technology, Thane, established in 2014, is dedicated to nurturing competent, ethical and socially responsible civil engineering professionals. The department emphasizes a balanced approach to education through theoretical knowledge, laboratory experimentation, Project-Based Learning, Value Added Programmes, computational tools and industrial exposure. With experienced faculty, modern laboratory facilities, advanced civil engineering software and an active student community through CESA and IAIC, the department provides students with opportunities to develop technical, professional and leadership skills. The department also promotes sustainability and environmental responsibility through initiatives such as the IGBC Student Chapter, ECO club and Green club. Its overall objective is to bridge the gap between academic learning and industry requirements while preparing students to contribute effectively to sustainable infrastructure development.

The Department of Civil Engineering offers B.E program in Civil Engineering with a yearly intake of 60 students. A group of qualified faculties with adequate experience is strength of department. The department has qualified faculty members occupied with educating and research, having perfection in different fields. The faculty members are youthful, dynamic and prepared to meet the scholastic needs.

Vision

Civil Engineering department strives to produce globally adaptive professionals to ensure sustainable growth of society

Mission

1. To develop state-of-the-art facilities and advanced computational resources to integrate education and research.
2. To create proficient and ethically strong technocrats by exposing them to rigorous appraisals to make them realise, define and select their key competencies
3. To bridge the academic and industrial gap by imparting training through sound and conceptual foundation and ample field exposure.



From the HOD's desk



It gives me immense pleasure to acknowledge that, during last year, various curricular and co-curricular activities were conducted successfully by the department. Through seminars, workshops, expert lectures and industrial visits, the students were equipped with technical knowledge, skills and creativity to excel in their engineering profession. The department is looking forward to a great year ahead, with plenty of planned activities lined up. Our students made us proud by excelling in academic and extra-curricular activities.

I congratulate and appreciate the efforts of Students and Faculty who have contributed to the continuous improvement of the department. I also appreciate and thank the editorial team for their sincere efforts in bringing this edition of the Newsletter.

I wish all our students and faculty attain great success in their future endeavours.

With best wishes

Dr. Mugdha Agarwadkar



We're proud
of you

Congratulations

Student Achievements

Toppers list

Congratulations to our students on their excellent exam results. We wish them to keep the same courage and confidence to face the challenges of life. May God bless them with success and abundant happiness.

A.Y. 2024-25

Semester	Name of Student	CGPA
SE	Satpute Omkar	8.16
TE	Shinde Siddharth	8.05
BE	Khatri Mohammed Zaid Sohel	9.08

Technical Achievement

- 12 Students published paper in International Journal.
- 14 Students have participated in State level and National level competition.
- 1 student have successfully completed NPTEL course out of 1 had bagged Elite type.
- 1 faculty have successfully completed NPTEL course each certificate has Elite type.

Departmental Activities

THREAD TO TREND ACTIVITY

Activity Date: - 26-06-2025 (Cloth Donation)

Audience: - Students and Faculty Members

Organised by: - IGBC and Eco club

On the occasion of World Environment Day 2025, the college organized a sustainability initiative titled “Thread to Trend” to promote environmental awareness, textile waste reduction, and the reuse of old clothes. The activity aimed to encourage students and faculty members to adopt eco-friendly practices and contribute towards a cleaner and more sustainable environment. As part of this initiative, students and faculty members enthusiastically participated by donating their old and unused clothes. The collected clothes were subsequently handed over for conversion into reusable bags through stitching and upcycling.

The initiative focused on transforming discarded textiles into useful products, thereby extending their life cycle and reducing the amount of textile waste generated. The activity highlighted the importance of responsible consumption and the environmental benefits of reusing available resources instead of discarding them. By converting old clothes into reusable bags, the initiative also promoted alternatives to single-use plastic bags and encouraged sustainable shopping and carrying practices. The activity demonstrated how simple actions, such as donating unused clothes and supporting upcycling, can contribute to waste minimization and resource conservation. The participation of students and faculty members reflected the college community’s commitment to environmental protection. The initiative also helped create awareness about the principles of Reduce, Reuse, and Recycle (3Rs) and the concept of a circular economy, in which waste materials are converted into valuable resources.

It encouraged students to think creatively about waste management and recognize their role in promoting sustainable lifestyles.

The “Thread to Trend” activity was a meaningful contribution to the college’s World Environment Day 2025 celebrations. It reinforced the message that environmental protection begins with individual responsibility and collective action. The initiative was aligned with Sustainable Development Goal (SDG) 12: Responsible Consumption and Production, SDG 13: Climate Action, and SDG 11: Sustainable Cities and Communities.

Overall, the activity successfully promoted the reuse of textiles, waste reduction, and environmental responsibility among students and faculty members, supporting the vision of a cleaner, greener, and more sustainable future. The collected cloths were donated to Mr. Vijaykumar Katti, Tree man of Thane for further processing at Collector office.

A few Glimpses of the event



PO Mapped: - 1,2,6,7,11.

PSO Mapped: 1,2,3.

SDG Mapped 11: Sustainable Cities and Communities,
12: Responsible Consumption and Production,
13: Climate Action

NUKKAD NATAK AND JUHU BEACH CLEAN UP DRIVE

Venue: -APSIT Thane and Juhu Beach

Activity Date: - 21-09-2024

Audience: - Students and Faculty member

Chief Guest: - Chief Minister Eknath Shinde, Minister Mangal Prabhat Lodha and Area Corporators

Organised By: - Ministry of Environment, Forest and Climate Change, Government of India along with State Government of Maharashtra

Faculty Co-ordinator: - Dr. Mrunal Joshi

Total Students Attended: -10 + 05

India's coastline of more than 7,500 km reflects our vast ocean resources. Most importantly, the Indian Ocean is the only ocean named after a country, that is, India. Litter especially in the form of plastics in the marine environment are a major concern and growing problem and a number of studies have shown their harmful impact on marine biodiversity, ecosystems, fisheries, human health and economy. Usually, wastes from land-based sources make up the major share of marine litter. Considering the dangers of plastic waste, India has implemented a nationwide ban on single-use plastic from July 01, 2022.

Considering this fact Nukkad Natak Competition was arranged by Treeman of Thane Mr. Vijaykumar Katti, VesacIndia. APSIT Students participated in this competition. This is a wonderful opportunity for civil department students to raise awareness about environmental issues through creativity and performance under theme Beach Cleaning - More Than Just Picking Plastic.



A few Glimpses of the event

HARIT PREM BHARAT MAHOTSAV

Seminar on "Green Building Movement in India"

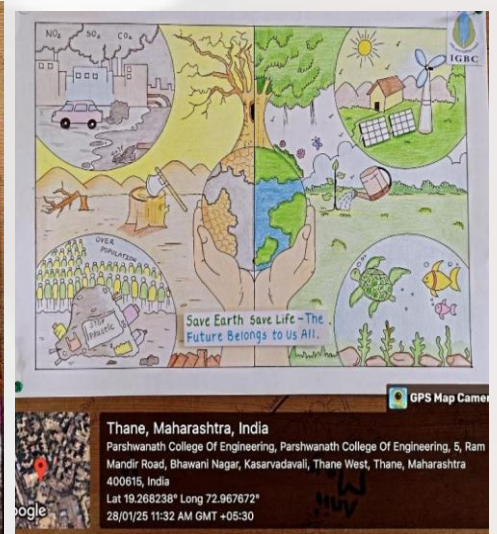
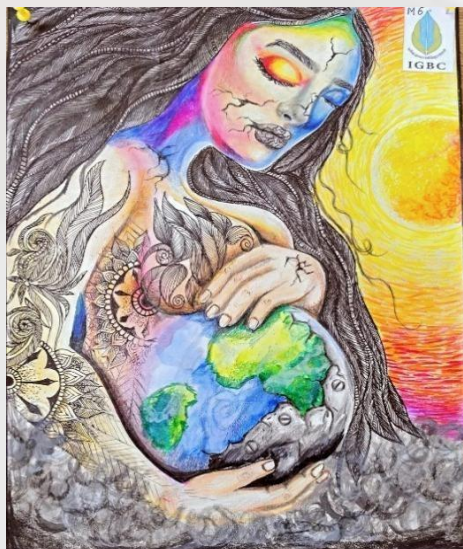
The Harit Prem Bharat Mahotsav 2025 commenced with an enlightening seminar on topic "Green Building Movement in India" by speaker Mr. Bhavesh Mehta, an esteemed expert in sustainable architecture and green building solutions. The seminar was attended by students, faculty members, and environmental enthusiasts.

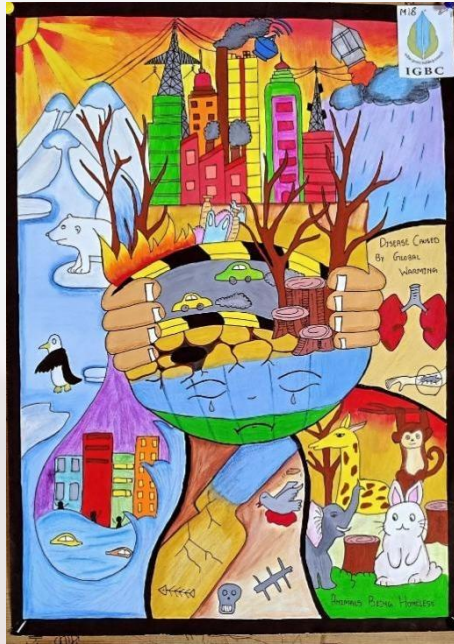
The objective of the seminar was to educate students about sustainable construction practices, environmental conservation in the built environment, and India's role in promoting green buildings.



Mr. Bhavesh Mehta delivering the Seminar

Poster Making Competition





A few Glimpses of the event

Tree Plantation Drive

Date: 1st February 2025

Location: Airoli , Sector 20, Jay Bhavani Jeshtya Nagarik Sewa Santha

Objective: To promote afforestation and improve urban green cover , reduce pollution



Conclusion & Impact of the Event:

The Harit Prem Bharat Mahotsav 2025 was a resounding success, bringing together students, faculty, and community members to promote sustainability and environmental awareness.

BIM Workshop

Department: Civil Engineering

Program Title: *Building Information Modeling (BIM) – Hands-on Training Workshop*

Proposed Dates: September 30, October 01 & 03, 2024

Duration: 3 Days

Venue: Auto Cad Training Center -Thane

Proposed by: Dr. Raksha S. Khandare

Target Audience: Final Year B.E. Civil Engineering Students

Mode: Offline (Hands-on + Expert Sessions)

Objective

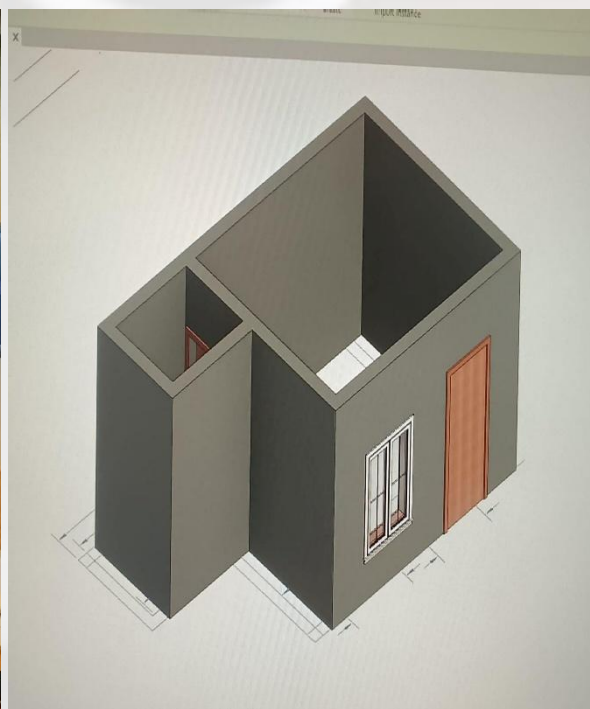
To equip civil engineering students with practical proficiency in Building Information Modelling (BIM), enabling them to meet industry expectations, collaborate across disciplines, and contribute to sustainable infrastructure development.

Rationale

- BIM is revolutionizing the construction and infrastructure sectors by integrating design, execution, and facility management.
- Proficiency in BIM tools and workflows is increasingly demanded by top-tier firms and government bodies.
- This workshop will bridge the gap between academic learning and industry application, enhancing student employability and readiness.

Workshop Structure

Day	Theme	Activities
Day 1	<i>Introduction to BIM & Industry Relevance</i>	Expert talk, BIM lifecycle overview, case studies
Day 2	<i>Hands-on Training: Software Tools</i>	Guided sessions on Revit, Navisworks, or BIM 360
Day 3	<i>Collaborative Modeling & Career Pathways</i>	Group modelling activity, alumni insights, certification guidance



Students doing Hands on Practice

WEBINAR REPORT ON: LEGISLATION -A TOOL TO CURB PLASTIC WASTE POLLUTION

Venue: - A.P. Shah Institute of Technology (Online mode)

Expert Lecture Date: - 06-06-2025

Audience: - Faculties and students

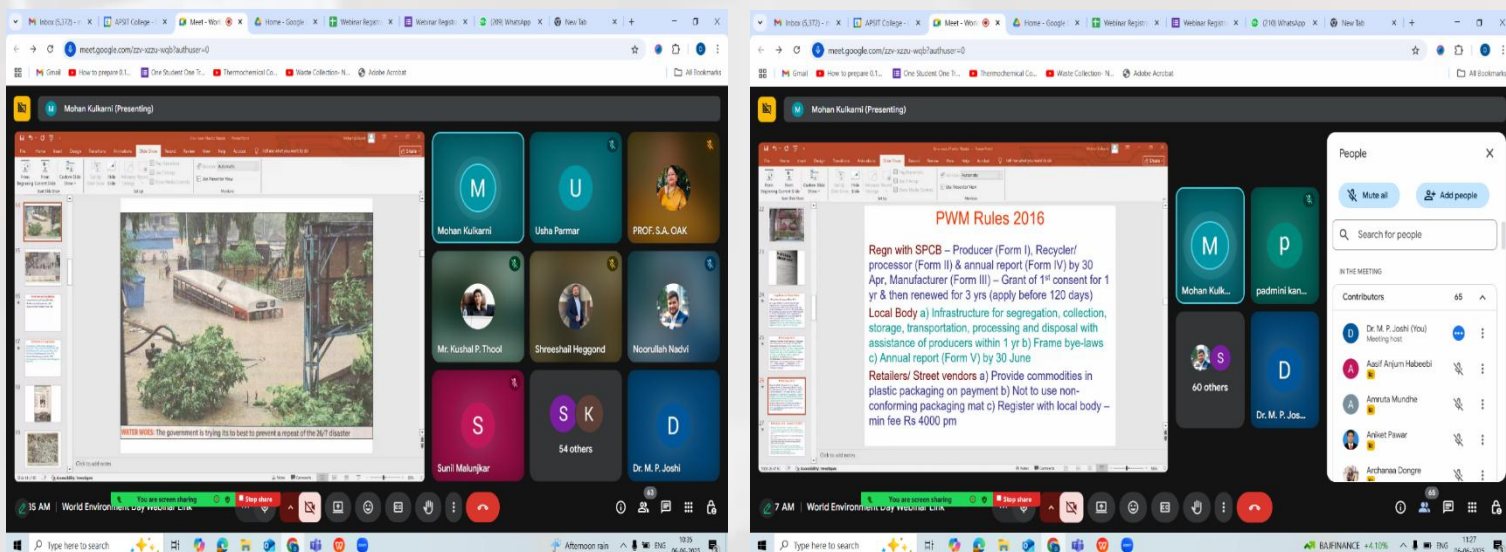
Expert Speaker: - Er. Mohan Kulkarni, CEO - Aim Enviro and Director AEGC Enviro Pvt. Ltd.

Organised by: - Civil Engineering Department in association with IGBC and Eco Club

This webinar is purposely arranged to celebrate World Environment Day. It is the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment. First held in 1974. It has been a platform for raising awareness on environmental issue such as marine pollution, human overpopulation, global warming, sustainable consumption and wildlife crime. World Environment Day is a global platform for public outreach, with participation from over 143 countries annually.

The expert lecture “Legislation – A Tool to Curb Plastic Waste Pollution” was aligned with the World Environment Day 2025 theme, “Beat Plastic Pollution.” The lecture highlighted how environmental legislation can transform the objective of beating plastic pollution into practical action through plastic waste reduction, source segregation, recycling, Extended Producer Responsibility (EPR), restrictions on selected single-use plastics, and scientific waste management. The expert lecture “Legislation – A Tool to Curb Plastic Waste Pollution” focused on the role of environmental legislation in controlling plastic pollution through prevention, reduction, segregation, collection, recycling and environmentally sound disposal. The lecture contributed primarily to SDG 12 – Responsible Consumption and Production, particularly Target 12.4 on environmentally sound management of wastes and Target 12.5 on reducing waste generation through prevention, reduction, recycling and reuse. It also supported SDG 11 – Sustainable Cities and Communities through improved municipal waste management and SDG 14 – Life Below Water by addressing plastic leakage into aquatic and marine environments. Overall, the session enabled students to understand legislation as an important policy instrument for achieving sustainable plastic consumption, responsible waste management and environmental protection.

The topic was covered in a systematic manner considering all factors that are required for desertification and drought resilience. The webinar ended with question and answer session and vote of thanks.



A few Glimpses of the lecture

Cotton Bag Distribution Event

Venue: -APSIT Thane

Activity Date: - 06-05-2025

Chief Guest: - Mr. Vijay Kumar Katti

Audience: - Faculty Members and Supporting Staff

Organised By: - IGBC And ECO Club

Faculty Co-Ordinator: - Dr. Mrunal Joshi

Total Staff and Students Attended: -40

On the occasion of World Environment Day 2025, A. P. Shah Institute of Technology, Thane, Civil Engineering Department organized a Cotton Bag Distribution Event to promote environmentally friendly alternatives to single-use plastic bags and encourage sustainable practices among students, faculty members, and the college community. The initiative aimed to create awareness about plastic pollution and highlight the importance of adopting reusable bags to protect the environment.

The event highlighted the benefits of cotton bags as reusable alternatives that can help reduce the consumption of disposable plastic bags when used regularly and maintained properly. Participants were encouraged to carry their own bags while shopping, avoid unnecessary plastic packaging, and motivate their families and communities to adopt eco-friendly practices. The initiative also reinforced the principles of Reduce, Reuse, and Recycle (3Rs) and promoted individual responsibility towards environmental conservation.

The participation of students, faculty members and supporting staff made the event an effective platform for spreading awareness about sustainable lifestyles. The activity demonstrated how small behavioural changes, such as using reusable bags, can contribute to reducing plastic waste and maintaining a cleaner environment. It also reflected the college's commitment to environmental protection and sustainability.

Overall, the Cotton Bag Distribution Event was a meaningful initiative organized as part of the college's World Environment Day 2025 celebrations. It encouraged the adoption of reusable alternatives to plastic bags and motivated participants to become responsible environmental citizens. The activity supported Sustainable Development Goal (SDG) 12: Responsible Consumption and Production, SDG 13: Climate Action, and SDG 14: Life Below Water, contributing towards a cleaner, greener, and more sustainable future.



A few Glimpses of Event

Site Visits

Course: Repairs, Rehabilitation and Retrofitting of Structures

Faculty: Prof. Raksha Khandare

Academic Year: 2024–25

Semester: VIII

Expert: Er. Aditya Deshmukh, ENTECH Consultant

Venue: Sarvodaya CHS, Kopari. Thane

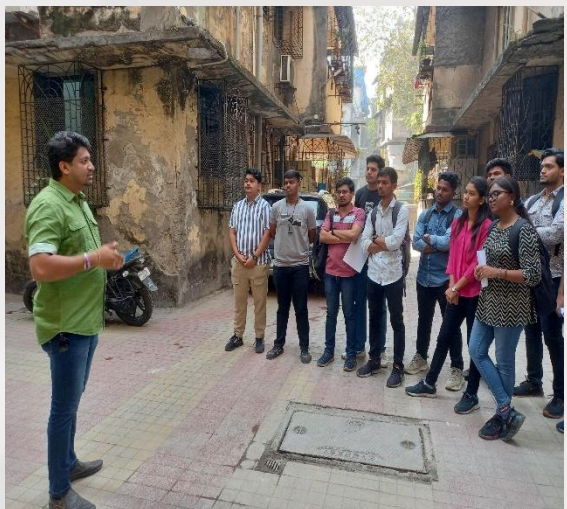
Objective of the Visit

The purpose of the site visit was to provide students with practical exposure to the importance of repairs and maintenance in civil engineering structures. The visit aimed to help students identify structural defects, understand inspection techniques, and explore practical methods for rehabilitation.

Activities Undertaken

- **Visual Inspection:** Students observed structural components such as beams, columns, and slabs to identify visible defects.
- **Crack Mapping:** Detailed mapping of cracks was carried out to assess severity and possible causes.

- **Interaction with Expert:** Er.



Aditya Deshmukh explained professional approaches to defect diagnosis and repair strategies.

Program Educational Objectives (PEO)

PEO 1 PREPARATION: Graduates shall be engaged in successful professional practice and/or pursue higher studies.

PEO2 CORE COMPETENCE: Graduates shall demonstrate technical competency and leadership to succeed in the career path ahead.

PEO 3 BREADTH: Graduates shall advance in their professional careers by demonstrating skills and expertise in different domains of Civil Engineering.

PEO 4 PROFESSIONALISM: Graduate shall demonstrate commitment towards professional ethics, best management practices and sustainable development of the society.

PEO 5 LIFELONG LEARNING: Graduate shall pursue lifelong learning in contributing innovative solutions using a research attitude and problem-solving skills.



Department of Civil Engineering.

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