



PARSHVANATH CHARITABLE TRUST'S
A. P. SHAH INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
NBA ACCREDITED



Department of Civil Engineering

Academic year 2022-2023

NIRMAAN

(निर्माण)

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

(Volume – VI)

Editorial Team

Faculty



Editor

Prof. Vishal Misal

Students



Mr. Chirayu Bhanushali



Mr. Om Bhanushali

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

Civil engineers apply engineering principles to balance the society with technical and economic feasibility. In view of this the department emphasizes on sustainability within the built environment through green engineering in our teaching and research activities. As we enter the 21st century we find ourselves in an increasingly digital world. With the advent of science and technology reaching meteoric heights, the importance of Civil Engineering has only increased. Now, more than ever, Civil Engineers are required to build the various giant infrastructure projects, which forms the basis for growth of world. Students studying under us are assured of the highest quality education buoyed by our state-of-the-art laboratories and extensive field trips to industries in order to familiarize them with the practical aspects of their trade.

The Department of Civil Engineering was established in 2015-16 offering B.E program in Civil Engineering with a yearly intake of 60 students, which is now increased to 120 from the year 2017-18. 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 semester, 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

Prof. U. W. Mate



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. 2022-23

Semester	Name of Student	CGPA
SE	Khatri Mohammed Zaid Sohel	7.83
TE	Sagyalallu Devraj Govind	9.13
BE	Gadgil Pranali Sachin	9.47

Technical Achievement

- Soumava Dutta, Nikhil Mhamunkar, Srujan Nawar and Prathamesh Chavan published the paper in International Journal of Research in Engineering, Science and Management.
- 11 Students have participated in State level competition
- 2 students have successfully completed NPTEL course out of 1 had bagged Elite type.
- 2 faculty have successfully completed NPTEL course both certificate has Elite type.

Departmental Activities

BREATHE WITHOUT PLASTIC

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

EXPERT LECTURE DATE: - 05-06-2023

AUDIENCE: - Faculties and students

EXPERT SPEAKER: - Dr. Aarati Gautam Bhandare, Founder – Amulya Boondh, Non-profit Organization

ORGANISED BY: - Civil Engineering Department

FACULTY CO-CONVENER: - Prof. Mrunal Joshi

TOTAL PARTICIPANTS ATTENDED: - 51

This webinar is purposely arranged on 5th June for the celebration of 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.

Each year, the program has provided a theme and forum for businesses, [non-government organizations](#), communities, governments and celebrities to advocate environmental causes.

The theme for World Environment Day on 5 June 2023 will focus on solutions to plastic pollution under the campaign #Beat Plastic Pollution, so considering this theme webinar is arranged on topic BREATHE WITHOUT PLASTIC. The speaker of the webinar was Dr. Aarati Bhandare.

Madam has started her lecture by giving the simple example of use and throw tea cup and informed about how this micro plastic generated after pouring boiled tea in plastic cup will affect our body. She has provided the alternatives available for the same. She has focussed on the purpose of invention of plastic and said it is invented to save animals and not to kill environment, humans and animals. Madam had given various examples in day-to-day life where we can avoid the plastic such as toothbrush, plastic scrub, plastic drinking water bottles, plastic tiffin, plastic straws. She has focussed on available alternative solutions and questioned why we are using these plastic material and increasing the pollution? She had touched very sensitive matter of sanitary napkins available in market containing bleaching powder. She explained how it is affecting the female health. She also showed the handmade cotton napkins which is the solution to avoid market plastic napkins.

The topic was covered in a systematic manner considering all factors that helpful for plastic waste management. The webinar ended with question and answer session and vote of thanks.

A few Glimpses of the lecture

Microsoft Teams interface showing a presentation by aarati gautam. The main window displays a PowerPoint slide titled "Dr. AARATI BHANDARE" with a logo featuring a hand holding a flame and the text "AMULYA Boondh". The slide navigation pane on the left shows a list of slides. The right sidebar shows a list of participants in the call, including Prof. M. P. Joshi (Meeting host), aarati gautam, and others. The "People" panel is open, showing a search bar and a list of participants.

Microsoft Teams interface showing a presentation by aarati gautam. The main window displays a PowerPoint slide titled "Its NOT about style" with images of paper cups and a person using a paper cup. The slide navigation pane on the left shows a list of slides. The right sidebar shows a list of participants in the call, including Prof. M. P. Joshi (Meeting host), aarati gautam, and others. The "In-call messages" panel is open, showing a list of messages sent during the call, including a message from Tilakraj Mahajan about paper cups and a message from Asif Ansari about paper cups.

Glimpse of Lecture

PLANTATION ACTIVITY AT YEOUR

VENUE: - Yeur Patona Pada, Thane West **ACTIVITY DATE:** - 25-08-2022

AUDIENCE: - IGBC Students and Faculty members

ORGANISED BY: - Civil Engineering Department in association with IGBC Student Chapter

FACULTY CO-ORDINATOR: - Prof. Mrunal Joshi **TOTAL STUDENTS ATTENDED:** - more than 20

We can't imagine environment without trees. For healthy living conditions plants plays vital role. The aim of this activity is to direct the students to contribute for society. This plantation activity is especially done for the farmers in Patona Pada area. The requirement of type of plants was taken from the farmers and same plants are planted in their farms by our students. The plants would be taken care by these farmers and in future this would serve as mean of earning by selling fruits and all. Plants selected for plantation activity were mango, coconut, Jackfruit, Custard apple, Tamarind, Bakula, Jamun, Stone apple, Adulsa etc.

Plantation is one of the best activities for making the planet greener, livelier, and healthier. Planted trees help our biodiversity, ensure the supply of oxygen for the next generations, and provide us with various resources. Without trees, the existence of human life, as well as other species on earth, is impossible. So, we should plant more and more trees. Plantation is considered as the todays investment in planet which will flourish and after few years, returned back into a big tree with shade, fruits and healthier surrounding nearby.

This activity was conducted at Yeur Patona Pada, Thane West. in the presence of faculties and IGBC students of Civil Engineering Department. Total 40 plants were planted. Students showed very keen interest and because of them it is possible to conduct this event.

A few Glimpses of the event







WORLD GREEN BUILDING WEEK CELEBRATION THROUGH E WASTE COLLECTION AND AWARENESS CAMPAIGN

VENUE: - A.P. Shah Institute of Technology (Offline mode) **ACTIVITY DATE:** - 12 to 16 - 09-2022

AUDIENCE: - Students and Faculty members

ORGANISED BY: - Civil Engineering Department in association with IGBC Students Chapter

FACULTY CO-ORDINATOR: - Prof. Mrunal Joshi **TOTAL STUDENTS ATTENDED:** - 11

Electronic waste or e-waste describes discarded electrical or electronic devices. Used electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. Technological advances are coming at us at such a dizzying speed that a lot of electronic devices that still work fine are the ones considered obsolete. Many VCR players that got replaced when the DVD player hit the market, and now the DVD players getting replaced by Blu-ray players. If a product is powered electronically and someone thinks they can create a better version, that contributes to e-waste. Same case is with mobile handsets.

This COVID 19 situation practiced all of us online working, teaching and learning experience. In one way this is good that work is going on, it is not stopped but it gives generation to lot of e waste. Desktops, Laptops, Printers, Mobiles, Headphones, Telephones, Televisions, DVD/CD players, camera, Refrigerator, Washing machines, Iron, Air Conditioners, Batteries, CD and CD covers, Cassettes, Toasters, Vacuum Cleaners, Wires, Electronic toys etc. are examples of E wastes. Management of this E waste is worldwide challenge now a day.

Most electronics contain some form of toxic materials, including beryllium, cadmium, mercury, and lead, which pose serious environmental risks to our soil, water, air, and wildlife. When E-waste gets buried at a landfill, it can dissolve in microscopic traces into the gross sludge that permeates at the landfill. Eventually, these traces of toxic materials pool into the ground below the landfill. This is known as leaching. The more E-waste and metals at the landfill, the more of these trace toxic materials show up in the groundwater.

One of the goals of the law was to ensure the management of waste in an environmentally sound manner. If we handover this waste to kabadiwala, they will burn this waste to get the required material to earn money from it. Ultimately, it will cause air pollution.

E waste collection center, formed at A.P. Shah Institute of Technology, all the E waste generated in college, also from students and faculties house and from nearby areas would be collected at college campus and then handed for Scientific Recycling.

IGBC is a founding member of the World Green Building Council since 2004. 12-16 September 2022, is being celebrated as World Green Building Week 2022. This year's World Green Building Week 2022 woven around the theme #Building for Everyone. This year, World Green Building Week aims to accelerate the Sustainable Development Goals and Sustainable Built Environments for everyone, everywhere. This will also provide us an excellent opportunity to showcase the IGBC success story in enhancing the quality of life.

**BUILDING FOR
EVERYONE**

#BuildingforEveryone



**WORLD GREEN
BUILDING
WEEK** 12-16 SEPT

Considering this, World Green Building Week is celebrated in A.P.Shah Institute of Technology through E waste collection from students and awareness campaign among students and faculties about E waste.

A few Glimpses of the event





POs satisfied are: PO6, PO7, PO12

Teachers Day Celebration

Date: 5th September 2022

Venue: A. P. Shah Institute of Technology (APSIT), Thane

Organized by: CESA

The **Teachers' Day Celebration** was organized at **A. P. Shah Institute of Technology (APSIT), Thane**, on **5th September 2022** to commemorate the birth anniversary of **Dr. Sarvepalli Radhakrishnan**, a renowned philosopher, educationist, and former President of India. The celebration was organized to acknowledge and appreciate the sincere efforts, dedication, and contribution of teachers towards shaping the academic and professional growth of students.

The programme commenced with a welcome address, followed by a brief introduction highlighting the significance of Teachers' Day. Students expressed their gratitude towards the faculty members through speeches, cultural performances, greeting cards, and other activities. The programme provided an opportunity for students to share their experiences and acknowledge the valuable guidance and mentorship received from their teachers.

Faculty members actively participated in the celebration and appreciated the efforts taken by the students to make the event memorable. Various engaging activities and interactions were conducted, creating a joyful and positive atmosphere. The programme also emphasized the important role of teachers in developing not only technical knowledge but also ethical values, confidence, leadership qualities, and a sense of responsibility among students.

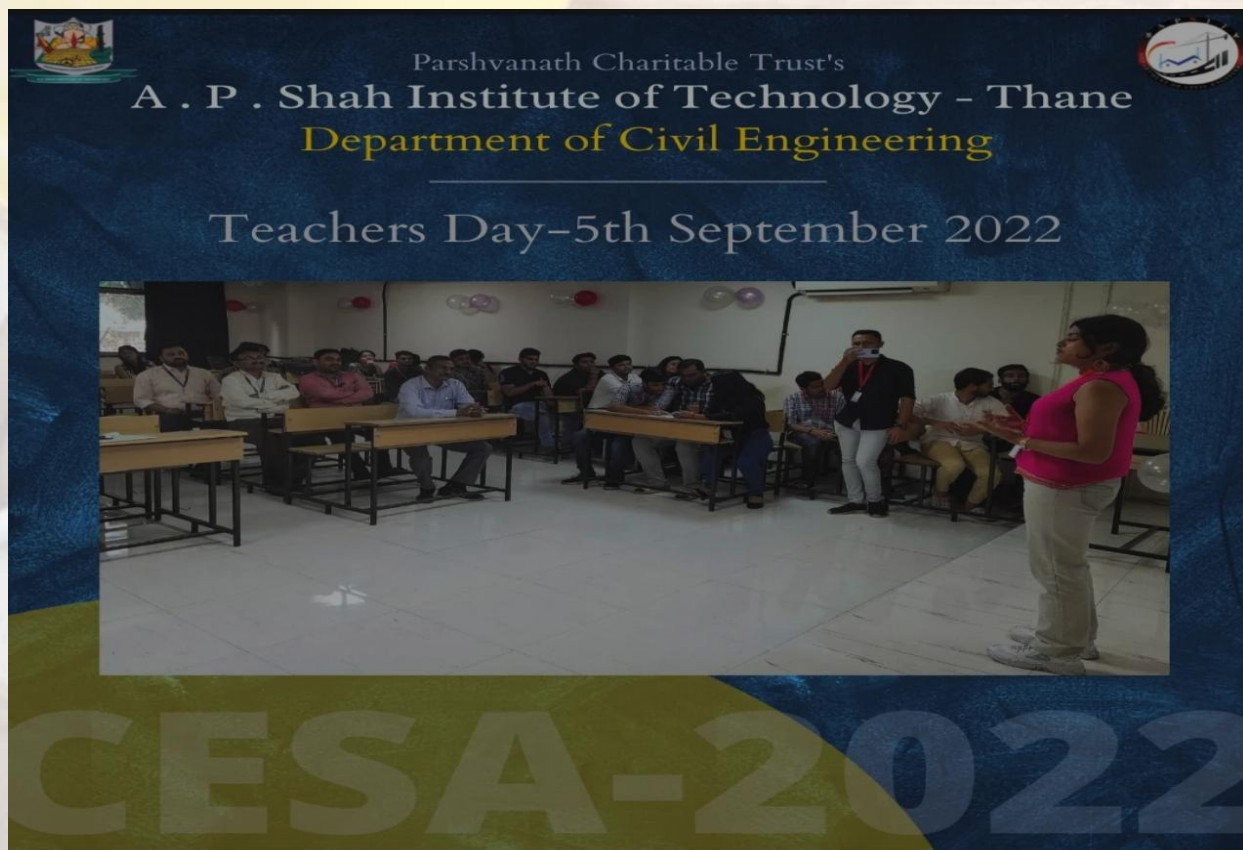
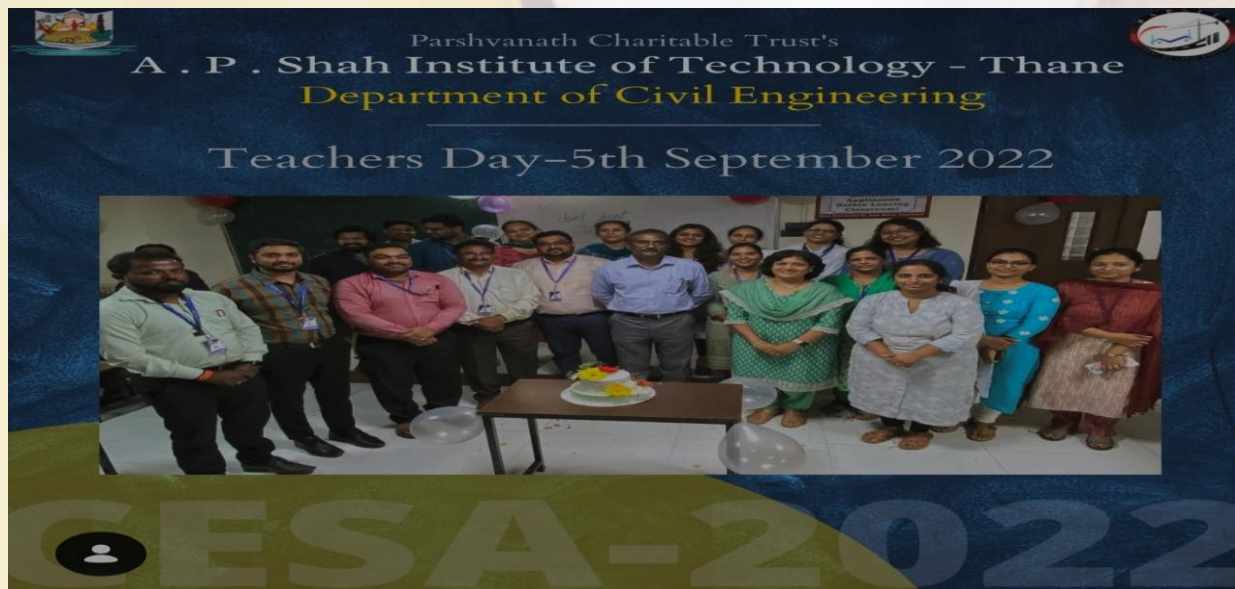
The celebration concluded with a **vote of thanks**, expressing gratitude to the management, faculty members, organizers, and students for their valuable contribution and active

participation. The event successfully strengthened the bond between teachers and students and created a memorable experience for everyone involved.

Outcome:

The Teachers' Day celebration successfully promoted **gratitude, respect, appreciation, and meaningful interaction between teachers and students**. It reinforced the importance of the teacher–student relationship in achieving academic excellence and holistic development.

Glimpse of Event



Engineers Day Celebration

Department of Civil Engineering of APSIT celebrated Engineers' Day with enthusiasm and active participation from the students. Engineers' Day is observed in India every year on 15 September to commemorate the birth anniversary of Sir Mokshagundam Visvesvaraya, one of India's eminent engineers.

The celebration was organized to highlight the importance of engineering in nation-building and to encourage students to develop technical knowledge, problem-solving abilities, creativity, and a spirit of innovation.

2. Objective of the Celebration

The major objectives of the Engineers' Day celebration were:

- To create awareness about the contribution of engineers to society and nation-building.
- To encourage students to enhance their technical and general knowledge.
- To provide students with an opportunity to participate in a healthy academic competition.
- To develop teamwork, logical thinking, and problem-solving skills.
- To commemorate the valuable contributions of Sir M. Visvesvaraya to engineering and infrastructure development in India.

3. Event Line-up

The major activity planned as part of the Engineers' Day celebration was:

Quiz Competition

The quiz was designed to provide students with an engaging platform to test their knowledge in engineering, science, technology, current developments, and general awareness.

4. Quiz Competition

The Engineers' Day Quiz Competition was conducted for students of A. P. Shah Institute of Technology. Students participated enthusiastically and demonstrated their knowledge, quick thinking, and problem-solving skills.

- Sustainable engineering and emerging technologies

The competition encouraged students to think beyond their regular academic curriculum and apply their knowledge in a competitive environment.

5. Student Participation

Students actively participated in the quiz and displayed considerable enthusiasm throughout the event. The competitive atmosphere encouraged interaction among students and promoted learning through an enjoyable activity.

The event also provided an opportunity for students to improve their confidence, communication, teamwork, and decision-making abilities.

The Engineers' Day celebration at A. P. Shah Institute of Technology was an enriching and engaging experience for the students. The quiz competition provided a meaningful combination of learning, competition, and enjoyment.

The celebration served as a reminder of the significant role engineers play in the development of society and the nation. It also motivated students to pursue excellence, innovation, and responsible engineering practices in their future careers.



Quiz Competition



Jury members

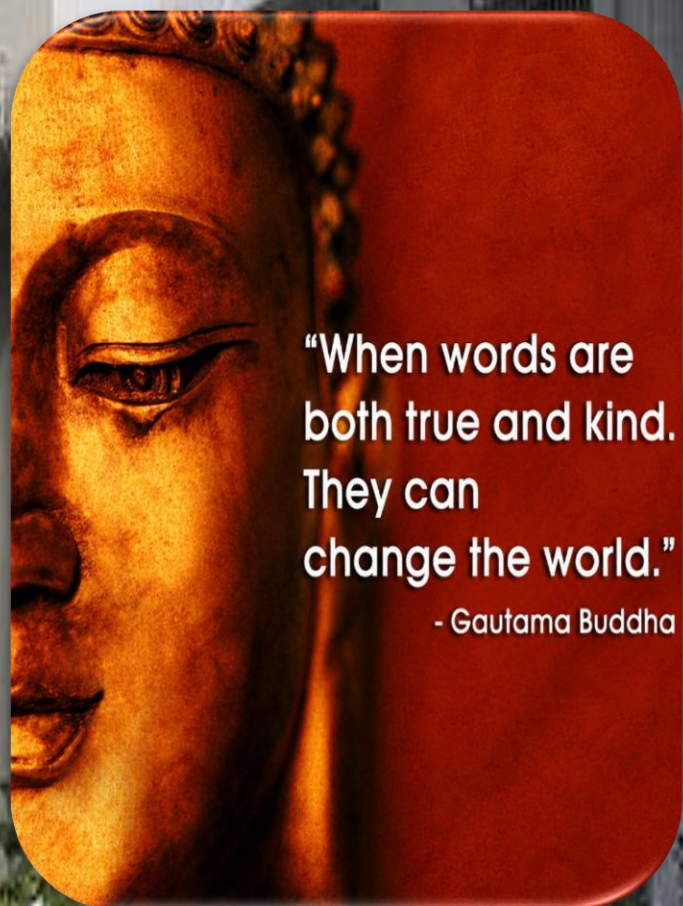
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**"When words are
both true and kind.
They can
change the world."**

- Gautama Buddha