



**Tulsiramji Gaikwad-Patil  
College of Engineering & Technology  
Nagpur - 441108**

[www.tgp cet.com](http://www.tgp cet.com)



**DTE  
CODE  
4151**

DEPARTMENT OF CIVIL ENGINEERING

NEWSLETTER (2024-25)

**SURVEKSHAK**



Classic Digital Art 9370961466

Volume 5

December - 2024

Issue 1

## About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also, college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

## About Department

Department of Civil Engineering was established in 2009 with a degree course in Civil Engineering with an intake of 60 students for graduate course & later on intake of 30 students for Post graduation in Structural Engineering and 60 students for Diploma in Civil Engineering.

Civil Engineering is considered as one of the oldest engineering disciplines. Civil Engineering involves planning, designing and executing structural works. The profession deals with a wide variety of engineering tasks including designing, supervision and constructional activities of public works like roads, bridges, tunnels, buildings, airports, dams, water works, sewage systems, ports etc. and offers a multitude of challenging career opportunities. The Department is dedicated to consultancy, educational research, and an exposure of students to the trends of development in the field of Planning, Designing & Execution to meet the needs of the construction industry, consultancies and research organizations in India and abroad. The department of Civil Engineering in TGPCET possesses a faculty team of experienced & well-qualified professors, well acquainted with deep subject knowledge, commitment to disseminate quality & value-based education in technical subjects. All faculties work hard on student to meet the requirement of market and groom the student to be job friendly.

## Institute Vision & Mission

**Vision** - To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

### **Mission** -

1. To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
2. To provide facilities and services to meet the challenges of Industry and Society.
3. To facilitate socially responsive research, innovation and entrepreneurship.
4. To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices

## Department Vision & Mission

**Vision** - To forge learning Center of Excellence in the field of Civil Engineering.

### **Mission** -

1. To promote academic and ethical development while upholding high standards.
2. To provide advance facilities with the skills needed to face Industry and societal challenges.
3. To promote socially responsible research, innovation, and entrepreneurship in the field of Civil Engineering.
4. To foster the holistic development of both students and faculty members by inculcating a blend of knowledge and professional work methods for overall progress.

## Department – Program Specific Outcomes (PSOs)

**PSO 1** - Competency to manage large infrastructure projects while providing safe and cost-effective project execution, along with expertise of rapid construction and project management.

**PSO 2** - Plan, execute, manage, maintain and rehabilitate civil engineering systems and processes.

**PSO 3** - Apply innovative construction and management techniques to compete with modern structural design and construction within the budget and time frame.

## Department – Program Educational Objectives (PEOs)

**PEO 1** - Analyse and design civil engineering structures while keeping social awareness and ethical responsibilities in mind.

**PEO 2** - Demonstrate leadership abilities in supporting sustainable practices in Civil Engineering.

**PEO 3** - Exhibit a commitment to lifelong learning, staying updated on developing technologies and industry trends, and adjusting to the evolving world of Civil Engineering.

**PEO 4** - Executing Proficiency in creative problem-solving and innovation, demonstrating an entrepreneurial attitude within the context of Civil Engineering.

## Program Outcomes (POs) – Engineering

**PO 1** – Engineering Knowledge

**PO 2** – Problem Analysis

**PO 3** – Design/development of Solutions

**PO 4** – Conduct Investigations of Complex Problems

**PO 5** – Modern Tool Usage

**PO 6** – The Engineer and Society

**PO 7** – Environment and Sustainability

**PO 8** – Ethics

**PO 9** – Individual and Team Work

**PO 10** – Communication

**PO 11** – Project Management and Finance

**PO 12** – Lifelong Learning

## Message from HoD



**Dr. Snehal Abhyankar**  
HoD (Civil)

I am delighted to present the welcome message for our newsletter “**SURVEKSHAK**” which gives glimpses of the cumulative efforts of the Department of Civil Engineering (TGPCET) & highlights major key activities that have taken place during the academic year 2024-25, guided by the Honorable Management & Principal and supported by the administration.

“**Survekshak**” is a Hindi word that translates to “Surveyor” or “Explorer.” This name perfectly encapsulates the spirit of exploration and investigation that drives civil engineering.

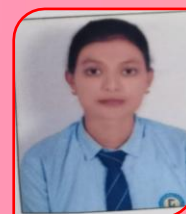
Our department has a team of qualified and experienced faculty and staff members and we are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and technology. The core values of the department help the students to develop their overall personality and make them worthy technocrat to compete and work at global level. I am certain that our students will prove to be an invaluable asset to an organization.



**Ms. Juhi Ramteke**  
Student Editor



**Mr. Sujal Mirche**  
Student Editor



**Ms. Pranali Kothekar**  
Student Editor

## Message from Editorial Board



**Mr. Harish Bahekar**  
Chief Editor (Student)

“**Survekshak**” signifies a keen observer, someone who meticulously examines the built environment, analyzes challenges, and seeks innovative solutions. It reflects the department's commitment to pushing the boundaries of knowledge and contributing to the advancement of civil engineering.

As the Chief Editor of “Survekshak” – a civil engineering department annual newsletter, please let me start by conveying my regard to all the team members who supported me for making this happen especially Juhi Ramteke, Sujal Mirche & Pranali Kothekar (Student Editors).

I would like to thank Dr. Snehal Abhyankar (HOD, Civil) for her continuous motivation, inputs and time to time feedback for the final draft of “Survekshak”.

Our department has been conducting seminar / conferences since its beginning to keep the faculty and students abreast with the latest developments in the field of technical education.

Let us work together to build a stronger and more vibrant Civil Engineering department that contributes significantly to the academic and professional landscape.

## Student Achievement in Activities

| Sr. No. | Name of Student             | Name of Events | Details of Activity                                   | Event Organized By / Date of Conduction | Position/ Remark | Awards & Prizes |
|---------|-----------------------------|----------------|---|---|------------------|-----------------|
| 1       | Pranali Rupchand Kotheekar  | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE + SILVER   | 75 %            |
| 2       | Aarya Raju Shahare          | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 73 %            |
| 3       | Piyush Vijay Lokhande       | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 72 %            |
| 4       | Kalyani Chandrakant Rambhad | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 67 %            |
| 5       | Mayuri Lade                 | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 67 %            |
| 6       | Vansh Thool                 | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 64 %            |
| 7       | Sakshi Mukunda Ghyar        | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 63 %            |
| 8       | Payal Jagannath There       | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 63 %            |
| 9       | Shweta Baban Ramteke        | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | ELITE            | 62 %            |
| 10      | Anil Satish Modi            | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | PASS             | 58 %            |
| 11      | Aditya Prabhudas Lokhande   | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | PASS             | 58 %            |
| 12      | Sujal Mirche                | NPTEL          | Building Materials as a Cornerstone to Sustainability | Jul-Oct 2024                            | PASS             | 56 %            |

# Student Achievement in Activities

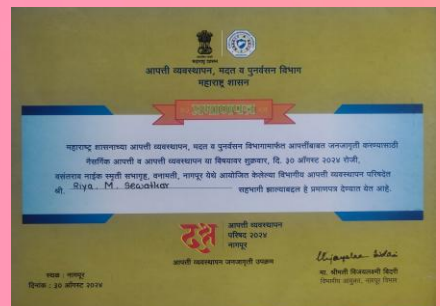
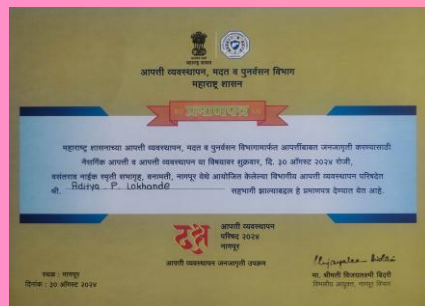
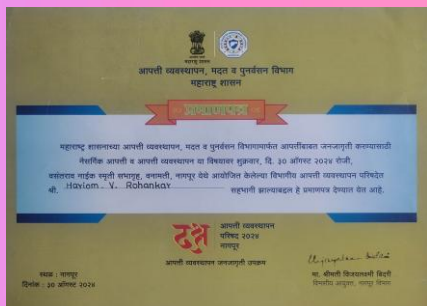
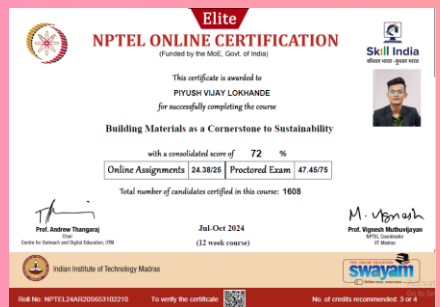
| Sr. No. | Name of Student        | Name of Events  | Details of Activity  | Event Organized By / Date of Conduction  | Position/ Remark | Awards & Prizes          |
|---------|------------------------|---|--|--|------------------|--------------------------|
| 13      | Rutik Digambar Meshram | YIN Kala Mahotsav 2024  | Singing Competition  | Priyadarshini Bhagwati College of Engineering  | Participation    | -                        |
| 14      | Ritik Meshram          | ELECTRICCA 24.0   | Talent Hunt  | Department of Electrical Engineering YCCE, Nagpur (23-25 August 2024)                                    | Participation    | -                        |
| 15      | Ritik Digambar Meshram | Oral Presentation Competition on Know the Science Nobel Laureates | National Science Day   | Department of Applied Science and Humanities, YCCE, Nagpur (22 February 2023)                            | Participation    | -                        |
| 16      | Ritik Digambar Meshram | AutoCAD-2D (Workshop)   | AutoCAD-2D (Workshop) LERAN DELTA  | Learn Delta Institute (8 <sup>th</sup> June 2023)  | Completed        | A Grade                  |
| 17      | Ritik Meshram          | ICON 24.0   | Talent Bling ICON 24.0 The Technical Event                               | Department of ETC and EE YCCE TECHFEST (23 <sup>rd</sup> , 24 <sup>th</sup> And 25 <sup>th</sup> August) | Participation    | -                        |
| 18      | Ritik Digambar Meshram | Singing Competition (Solo)  | Youth-Tech Connect 2024  | Suryodaya College of Engineering & Technology, Nagpur (20-25 February 2024)                              | Winner           | Rockstar Award           |
| 19      | Mahesh Napte           | Sport   | 43 Junior Kabaddi League Under-19 League Kabaddi Championship - 2024     | Kabaddi Federation of Pune Kabaddi Federation of INDIA (2 <sup>nd</sup> -16 <sup>th</sup> August)        | Winner           | 1 <sup>st</sup> Position |
| 20      | Aditya P. Lokhande     | Natural Disaster and Disaster Management                          | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)              | Participation    | -                        |
| 21      | Piyush V. Lokhande     | Natural Disaster and Disaster Management                          | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)              | Participation    | -                        |
| 22      | Hariom V. Rohankar     | Natural Disaster and Disaster Management                          | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)              | Participation    | -                        |
| 23      | Sujal D. Mirche        | Natural Disaster and Disaster Management                          | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)              | Participation    | -                        |
| 24      | Ashik L. Gaupale       | Natural Disaster and Disaster Management                          | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)              | Participation    | -                        |

## Student Achievement in Activities

| Sr. No. | Name of Student     | Name of Events                           | Details of Activity  | Event Organized By / Date of Conduction  | Position/ Remark | Awards & Prizes |
|---------|---------------------|--|--|--|------------------|-----------------|
| 25      | Aditya Lokhande     | Course Certificate                       | Interview Skill Course Certificate                                       | TCS<br>Tata Consultancy Services<br>(20 <sup>th</sup> August - 27 <sup>th</sup> September)     | Participation    | -               |
| 26      | Pranali R. Kothekar | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 27      | Pratiksha Somankar  | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 28      | Ayush Soni          | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 29      | Rohit L. Raut       | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 30      | Shambhu A. Agase    | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 31      | Vikas S. Bhelawe    | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 32      | Riya M. Sewatkar    | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 33      | Ram A. Lande        | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |
| 34      | Ritik D. Meshram    | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation<br>(30 <sup>th</sup> August 2024) | Participation    | -               |




# Student Achievement in Activities

| Sr. No. | Name of Student         | Name of Events                           | Details of Activity  | Event Organized By / Date of Conduction  | Position/ Remark  | Awards & Prizes          |
|---------|-------------------------|--|--|--|-------------------|--------------------------|
| 35      | Santosh N. Lakhade      | Natural Disaster and Disaster Management | Natural Disaster and Disaster Management on 30 <sup>th</sup> August 2024 | Department of Disaster Management, Relief and Rehabilitation (30 <sup>th</sup> August 2024)  | Participation     | -                        |
| 36      | Maithili Mothe          | International Level Sports               | International Tennis Sports  | International Tennis Federation  | ITF Junior Player | -                        |
| 37      | Ritik Meshram           | ELECTRICCA 24.0                          | Talent Hunt  | Department of Electrical Engineering YCCE, Nagpur (23-25 August 2024)                        | Winner            | 3 <sup>rd</sup> Position |
| 38      | Shree Abhijit Choudhary | International Level Sport                | International Cricket Sports   | International Cricket  | Cricket Player    | -                        |
| 39      | Rutik Meshram           | State Level Singing Competition          | Akola Idol Season 3 State Level Singing Competition                      | Yuva Vicharpith & Department of Music, Shri Shivaji Arts, Commerce & Science College, Akola. | Participation     | -                        |



## Glimpses of Certifications

# IWWA Monthly Lecture "Historical Water Resources Management of India"



**INDIAN WATER WORKS ASSOCIATION**  
NAGPUR CENTRE

Cordially invites you to a lecture program on the topic  
**Historical Water Resources Management of India**

by  
**Dr. Ashwini Mirajkar**  
Associate Professor, Department of Civil Engineering,  
VNIT Nagpur

on  
Wednesday, the 31<sup>st</sup> July 2024 | at 7 pm

Venue  
**Indian Water Works Association Hall**  
North Ambazari Road, Shankar Nagar Square,  
Nagpur - 440 010

Dr. O.N. Mukherjee | Dr. Virendra Dehadrai | Dr. Isha Khedikar  
Chairman | Co-ordinator | Hon. Secretary

Programme will be followed by Hi-Tea

Department of Civil Engineering under ARTEX Forum in association IWWA Student's chapter organized a visit of its 3rd & 4th year students to the Nagpur Local Centre of Indian Water Works Association (IWWA) located near Shankar nagar Metro Station, Nagpur on 31.07.2024 between 7:00pm to 9:00pm. The purpose of this visit was to attend the expert lecture organized under IWWA Monthly Guest Lecture Series.

The expert speaker for this lecture was Dr. Ashwini Mirajkar, Associate Professor, Civil Engineering, VNIT Nagpur and her topic of delivery was "Historical Water Resources Management of India".

This lecture provided valuable insights into the past and present of water conservation in the country. By understanding the ingenuity of our ancestors, we can draw inspiration and develop sustainable solutions for the future. The lecture served as a reminder of the importance of preserving our historical heritage and utilizing traditional knowledge to address contemporary water challenges

# SITE VISIT "Maha-Metro Bhawan Nagpur"



Department of Civil Engineering under ARTEX Forum organized a one-day site visit at Maha-Metro Bhawan, Nagpur on 02.08.2024. Total 55 students of 3<sup>rd</sup> and 7<sup>th</sup> semester Civil Engineering took advantage of this informative visit. The purpose of this site visit is to let the student understand the metro operations and technologies.

Mr. Akhilesh Halve, DGM (CC) Maha-Metro Rail Corporation Nagpur and Miss. Rashmi Madankar were present during this visit. They explained work flow and the all information of Maha-Metro Bhawan and various technologies used in construction of Maha-Metro Rail's. Students also visited the operations control room, where they learnt the integration of cutting-edge signaling systems and real-time data analytics used to manage the metro's daily operations efficiently. Technological innovations such as regenerative braking systems and energy-efficient lighting were highlighted, reflecting Maha Metro's commitment to enhancing operational efficiency and reducing environmental impacts.

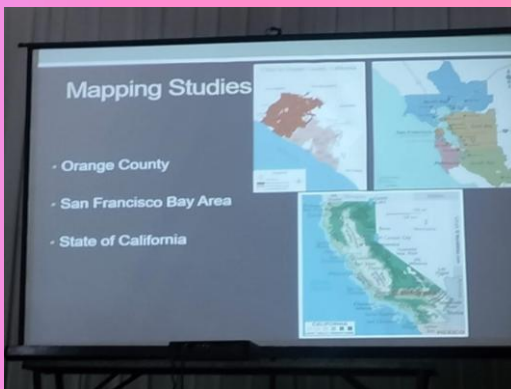
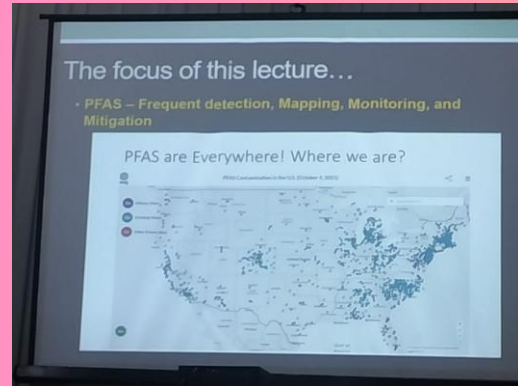
# ARTEX Forum Reinstallation, IWWA Student's Chapter Reformation, Felicitation of Students and a Guest Lecture




Department of Civil Engineering in association with Indian Water Works Association (IWWA) Nagpur Centre organized **ARTEX Forum Reinstallation, IWWA Student's Chapter Reformation, Felicitation of students** for their academic & extracurricular achievements and a **Guest Lecture** by Dr. Isha Khedikar on the topic "**Waste to Energy: Fueling a Sustainable Future**" on 07.08.2024. Dr. O. N. Mukherjee, Chairman-IWWA Nagpur Centre was the Chief Guest, Dr. P. K. Jain Vice Chairman-IWWA Nagpur Centre and Dr. Isha Khedikar, Secretary-IWWA Nagpur Centre were the Guest of Honours for this event.

Indian Water Works Association (IWWA) **Student's Chapter** was reinstalled by inaugurating the official IWWA logo made by CE students who utilized "**waste bamboo and wooden material**" available in the college campus. After that, IWWA membership certificates were distributed to **57 students**.

# IWWA Monthly Lecture "Occurrence of Per-and Polyfluoroalkyl Substances (PFAS) in Drinking Water – Mapping, Monitoring and Mitigation"





**INDIAN WATER WORKS ASSOCIATION**  
NAGPUR CENTRE

**Save Water**

**Invitation**

You are cordially invited to attend

**Dr. A. G. Bhole Endowment Lecture**  
on  
**Occurrence of Per-and Polyfluoroalkyl Substances (PFAS) in Drinking Water - Mapping, Monitoring, and Mitigation**

by  
**Dr. Sudarshan Kurwadkar**  
Professor, Civil & Environmental Engineering  
California State University, Fullerton

on  
**Tuesday, 20th August 2024**  
at 7.00 pm

Venue  
**Indian Water Works Association Hall**  
North Ambazari Road, Shankar Nagar Square,  
Nagpur - 440 010

|                                |                                      |                                     |
|--------------------------------|--------------------------------------|-------------------------------------|
| Dr. O.N. Mukherjee<br>Chairman | Dr. Snehal Abhyankar<br>Co-ordinator | Dr. Isha Khedikar<br>Hon. Secretary |
|--------------------------------|--------------------------------------|-------------------------------------|



Department of Civil Engineering under ARTEX Forum in association IWWA Student’s chapter organized a visit of its 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year students to the Nagpur Local Centre of Indian Water Works Association (IWWA) located near Shankar nagar Metro Station, Nagpur on 20.08.2024 between 7:00pm to 9:00pm. The purpose of this visit was to attend Dr. A. G. Bhole Endowment Lecture on “Occurrence of Per-and Polyfluoroalkyl Substances (PFAS) in Drinking Water – Mapping, Monitoring and Mitigation” by Dr. Sudarshan Kurwadkar, a distinguished professor from Department of Civil & Environmental Engineering, California State University, Fullerton (USA).

He began by providing an overview of PFAS compounds, highlighting their unique chemical properties and widespread industrial applications. Dr. Kurwadkar discussed the magnitude of PFAS usage and their consequent environmental release, emphasizing the potential for contamination of drinking water sources.

# SITE VISIT

## "200 MLD Bhandewadi Sewage Treatment Plant"

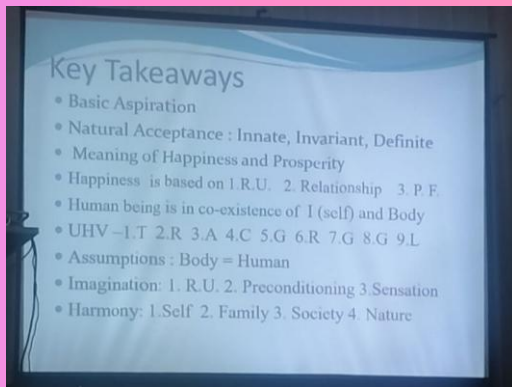


Department of Civil Engineering under ARTEX Forum in association with Indian Water Works Association (IWWA), Indian Concrete Institute (ICI) have organized Site visit for 5th semester Civil Engineering student on date 4th September 2024 at Bhandewadi Sewage Treatment Plant Nagpur (200 MLD).

The visit highlighted the complex systems and technologies involved in ensuring safe water for river disposal. Students observed the advanced machinery and equipment which are essential for treatment sewage water. The visit also emphasized the importance of quality control and testing procedures to ensure compliance with regulatory standards

We appreciate the efforts taken by Mr. Vinay Wadgaonkar (Plant Manager) and Ashish Charjan (Plant Staff) for guiding our students during this site visit.

# IWWA Monthly Lecture "Universal Human Values in Holistic Education"




Department of Civil Engineering under ARTEX Forum in association IWWA Student's chapter organized a visit of its 3rd & 4th year students to the Nagpur Local Centre of Indian Water Works Association (IWWA) located near Shankar nagar Metro Station, Nagpur on 04.09.2024 between 7:00pm to 9:00pm. The purpose of this visit was to attend a Lecture on "Universal Human Values in Holistic Education" organized under IWWA Monthly Guest Lecture Series.

The expert speaker for this lecture was Dr. Sandip Tatewar, Ex. Professor and Head, Civil Engineering Department, Government Engineering College, Amravati. He highlighted the need for a value-based approach to education, emphasizing that it can address the multifaceted challenges faced by society today. Dr. Tatewar discussed the prevalent problems such as inequality, environmental degradation, and social unrest and emphasized the role of values in fostering a more harmonious and sustainable world. He concluded the lecture by emphasizing the importance of harmony at various levels - self, family, society, and nature. He emphasized the role of values in fostering harmonious relationships and creating a more sustainable and equitable world

# Expert Lecture "Advances in Civil Engineering Softwares - BIM"



Department of Civil Engineering under ARTEX Forum in collaboration with ICI & IWWA Students' Chapters, organised a Expert Lecture on "Advances in Civil Engineering Softwares - BIM" for the students of 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> year. The expert speakers for this lecture were Mr. Sarang Pimpalkar and Mr. Nikhil Dhawale, Senior BIM consultants, Nagpur. The topic of delivery was "Advances in Civil Engineering Softwares - BIM (Building Information Modelling)".

During the session, Mr. Sarang Pimpalkar and Mr. Nikhil Dhawale explained the students about the following topics:

1. What is BIM?
2. Benefits of BIM in construction like:
  - Maximized efficiency & reduced time of construction
  - Reduced cost and wastage
  - Better insights into projects
  - Communication & collaboration
  - Better end results
3. Job opportunities for Civil engineers in BIM industry
4. Possible designation of a BIM engineer like
  - BIM coordinator
  - BIM manager
  - VDC manager
  - Preconstruction manager &
  - BIM Director
5. Latest advanced softwares used for BIM (AutoCAD, Revit, Naviswork Manage, Primavera, Staad-Pro)

# SITE VISIT

## "CSIR-NEERI campus, Nagpur"



On occasion of 83<sup>rd</sup> CSIR Foundation Day (04.10.2024), the department of Civil Engineering of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur (An Autonomous Institute) under ARTEX forum in association with IWWA & ICI Students' Chapters, organized a site visit to CSIR-NEERI, Nagpur for the students of 3<sup>rd</sup> semester Open Elective-I (BCE32306: Green Structures and Smart Cities).

Following Divisions (including Labs) were visited:

1. Medicinal Garden
2. Air Resource facility
3. Wastewater management facility
4. Energy Resource facility
5. Climate Change & Green Material division
6. Environmental Epidemiology & Pandemic Management facility
7. Environmental Virology Cell

Students also visited Harit Sangrahalaya where a "model exhibition competition" was organized. The benefit of this informative visit was taken by a total of 62 students: -

- BT: 17
- CSE: 13
- EE: 03
- CSE (DS): 17
- IT: 03
- ME: 09

This visit at the end concluded with the "Cleanliness Oath" by Dr. Atul Vaidya, Director, CSIR-NEERI and the Vote of Thanks speech by Senior Principal Scientist Mr. Prakash Kumbhare.

# SITE VISIT

## "RCC Building Construction Site"

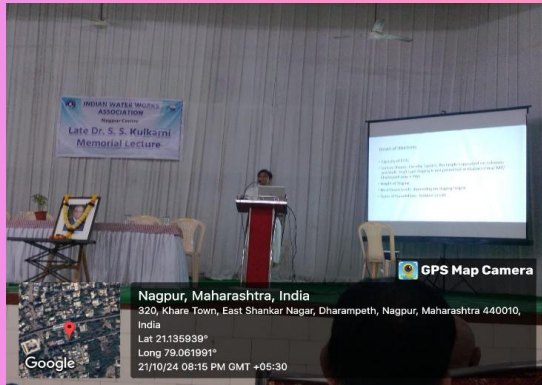



Department of Civil Engineering under ARTEX Forum in association with Indian Concrete Institute (ICI) and Institution of Engineers (India) (IEI), have organized Site visit for 3<sup>rd</sup> and 5<sup>th</sup> semester Civil Engineering students on date 8<sup>th</sup> October 2024 at RCC building construction Site, at P. No. 31, Prashant Nagar, Wardha Road, Ajni square, Nagpur.

This visit provided students with practical learning opportunities and bridged the gap between theoretical knowledge and real-world implementation. Students observed the Actual Construction process of various structural elements in multistory building. The quality of work observed on-site was in line with standard construction practices, and the site was well-organized and safety-compliant.



Students gained firsthand exposure to the construction sequence, from foundation work to the erection of columns, beams, and slabs. They observed different construction techniques, material handling, and quality control procedures.

# IWWA Monthly Lecture "Structural Design of Water Retaining Structures with Case Studies"





Save Water

**INVITATION**

**INDIAN WATER WORKS ASSOCIATION**  
NAGPUR CENTRE

You are cordially invited to

**LATE DR. S. S. KULKARNI MEMORIAL LECTURE**

by

**Er. Minal Dehadrai**  
Director, Aquades Structural Consultants (P) Ltd.

On

**Structural Design of Water Retaining Structures with case studies**

on Monday,  
21<sup>st</sup> October 2024 at 7.00 pm

Venue

**Indian Water Works Association Hall**  
North Ambazari Road, Shankar Nagar Square, Nagpur - 440 010

Programme will be followed by Dinner

|                                 |                                   |                                     |
|---------------------------------|-----------------------------------|-------------------------------------|
| Dr. O. N. Mukherjee<br>Chairman | Er. Rajesh Kanade<br>Co-ordinator | Dr. Isha Khedikar<br>Hon. Secretary |
|---------------------------------|-----------------------------------|-------------------------------------|

## DR S S Kulkarni memorial lecture held

**Staff Reporter**

A LECTURE session was recently organised at the Indian Water Works Association (IWWA) Hall in the memory of late Dr S S Kulkarni. The topic of the lecture was 'Structural design of water retaining structures with case studies'.

Dr V A Mhaisalkar, Past Chairman of IWWA Nagpur, and Dr K C Tayade, Past Vice Chairman, felicitated wife and son of late Dr S S Kulkarni, Meera Kulkarni and Niranjan Kulkarni respectively. Dr O N Mukherjee, Chairman; Dr Isha Khedikar, Secretary; Dr Pawan Labsethwar; Dr Rajesh Gupta, Past President; Dr Rahul



**Dignitaries present during a lecture session held at IWWA Hall.**

Ralegaonkar, Treasurer; Dr Kalpana Bhole, AS Deshpande, Ajit Deshpande, Vikrant Joshi, Dr Ashwini Mirajkar and Prashant Burde were present. The speaker discussed about IS code norms to build water retaining structures, short-comings and how to overcome it. The lecture was attended by professionals, engineers and students.

Department of Civil Engineering under ARTEX Forum in association IWWA Student's chapter organized a visit of its 3<sup>rd</sup> year students to the Nagpur Local Centre of Indian Water Works Association (IWWA) located near Shankar nagar Metro Station, Nagpur on 21.10.2024 between 7:00pm to 9:00pm. The purpose of this visit was to attend Late Dr. S. S. Kulkarni Memorial Lecture on "Structural Design of Water Retaining Structures with Case Studies" organized under IWWA Monthly Guest Lecture Series. The speaker was Er. Minal Dehadrai, Director, Aquades Structural Consultants (P) Ltd., Nagpur. The lecture began with a review of fundamental concepts in structural analysis, including stress, strain, and deformation. She gave details regarding structural design principles and practices applied to water retaining structures. The various types of water retaining structures, such as dams, retaining walls, and tanks, were also discussed. Real-world case studies were presented to illustrate the application of these techniques and the challenges faced during the design and construction of water tanks. Er. Minal Dehadrai concluded the lecture by discussing IS code norms to build water retaining structures, short-comings & how to overcome them.

# Interactive Session & Guest lecture "Exploring Collaborative Educational & Research Opportunities in USA"



Department of Civil Engineering under ARTEX Forum in collaboration with IWWA Students' Chapters, organized an insightful Interactive session & Guest Lecture on "Exploring Collaborative Educational & Research Opportunities in USA" for B. Tech. First year (Civil Engg. & Electrical Engg.) students of Department of Basic Sciences and Humanities. The expert speaker for this lecture was Dr. Sudarshan T. Kurwadkar, Professor at Department of Civil & Environmental Engineering, California State University, Fullerton (USA).

The speaker Dr. Sudarshan T. Kurwadkar in his lecture covered a wide range of topics, including his journey till now (from Gondpipri to California), his personal experiences, the importance of hard work and dedication in achieving success, the selection process & basic requirements to pursue higher education in the USA, job opportunities in USA, and the significance of soft skills (presentation & communication). He asked the students to always stay motivated & determined to do better.

This lecture was followed by a Question-Answer session. Total 145 students of B.Tech 1<sup>st</sup> year (Civil Engg. and Electrical Engg.) took the benefit of this great exposure. The session concluded with a laboratory visit and interaction of Dr. Sudarshan Kurwadkar with faculty members of Civil Engineering department on the possibilities of collaborative research & innovation.

# IWWA Monthly Lecture "Circular Economy in Wastewater Treatment"



Save Water

INDIAN WATER WORKS ASSOCIATION

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INVITATION

INDIAN WATER WORKS ASSOCIATION  
NAGPUR CENTRE

cordially invites you to

**LATE SHRI D. V. DATE MEMORIAL LECTURE**

by

**Dr. Girish Pophali**  
Chief Scientist  
CSIR-NEERI, Nagpur

**ON THE  
TOPIC :**

**Circular Economy in Wastewater Treatment**

on Friday,  
22<sup>nd</sup> November 2024 at 7.00 pm

Venue  
**Indian Water Works Association Hall**  
North Ambazari Road, Shankar Nagar Square, Nagpur - 440 010

Programme will be followed by Dinner

Dr. O. N. Mukherjee  
Chairman

Dr. S. S. Hastak  
Co-ordinator

Dr. Isha Khedikar  
Hon. Secretary

Department of Civil Engineering under ARTEX Forum in association IWWA Student's chapter organized a visit of its 4<sup>th</sup> year students to the Nagpur Local Centre of Indian Water Works Association (IWWA) located near Shankar nagar Metro Station, Nagpur on 22.11.2024 between 7:00pm to 9:00pm. The purpose of this visit was to attend Late Shri D. V. Date Memorial Lecture on "Circular Economy in Wastewater Treatment" organized under IWWA Monthly Guest Lecture Series. The speaker for this lecture was Dr. Girish Pophali, Chief Scientist, CSIR-NEERI, Nagpur.

Dr. Girish Pophali provided a comprehensive overview of the circular economy concept and its application in wastewater treatment. The traditional linear model of wastewater treatment, which involves the collection, treatment, and disposal of wastewater, was discussed. The limitations of this model, such as resource depletion and environmental pollution, were highlighted. Dr. Pophali emphasized the potential of the circular economy to address these challenges by transforming wastewater into valuable resources. Various strategies for resource recovery and reuse, including energy recovery, nutrient recovery, and water reuse, were explored.

## Parents Teacher Conclave (14.09.2024)



The Parents Teacher Conclave for Civil Engineering students of 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> semester (Autonomous) was scheduled on 14-09-2024 (Saturday) between 11.30am to 2.30pm to discuss about Department activities, student progress and performance.

First phase of PTC began at central-level at JRD Tata hall with traditional lamp lighting ceremony. Gold medals and certificates were distributed to toppers of CT-1 exam (First rank holders) from all departments. The program was anchored by Prof. Mohitsingh Katoch (Civil Engineering) and Vote of thanks was proposed by Prof. Vishwjeet Ambade (Coordinator, Mentor Mentee Scheme).

Second phase of PTC was conducted at Civil Engineering department conference hall for the parents of Civil engineering department students. It began with the Opening remarks by Dr. Aasif Baig. He shared the importance of the role of parents' interaction during upcoming NBA visit. He had one-to-one interaction with the parents and discussed their issues. Afterwards, Dr. Snehal Abhyankar (HoD, CE) also had one-to-one discussion with the parents. She briefed parents regarding their role as stakeholders in NBA committee visit & appealed them to come in large number. She informed regarding internship, placement, & skill enhancement courses of students. 2<sup>nd</sup> & 3<sup>rd</sup> toppers of CT-1 exam were felicitated with Silver & Bronze medals along with certificates. This was followed by CT-1 exam result display and marksheet distribution. Course coordinators also had discussion with parents. Total 38 parents visited during this PTC. This PTC was coordinated by Prof. Mohitsingh Katoch, Prof. Komal Meshram and Prof. Nayana Sangole.





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