

**CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

**A report of Guest Lecture on
“Recent Trends in Water Supply and Wastewater Treatment”**

9th March 2026



Chhotubhai Gopalbhai Patel Institute of Technology (Uka Tarsadia University)

The Department of Civil Engineering
presents a guest lecture on

**RECENT TRENDS IN WATER
SUPPLY AND WASTEWATER
TREATMENT**

**WITH :
MS. HEMALI JARDOSH**
SPEAKER
Asst. Professor, DoCE, SCET,
Surat

9 March, 2026
10:00 am -11:30 am

Organized by:
Dr. Manoj Gundalia
Prof. & Head, DCE, CGPIT

Organized by

Diploma Studies and Department of Civil Engineering, CGPIT, UTU



छोटुभाई गोपालभाई पटेल प्रौद्योगिकी संस्थान,
Chhotubhai Gopalbhai Patel Institute of Technolo

LEARN.
LEAD.
LIGHT.



**GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY
UKA TARSADIA UNIVERSITY, MALIBA CAMPUS, BARDOLI**

A report of Expert Talk on

“Recent Trends in Water Supply and Wastewater Treatment”

Speaker: Ms. Hemali Jardosh, Asst. Prof., DoCE, Sarvajanik University, Surat

Total Nos. of Students:

Diploma Civil 6th Sem (4-Boys),

B. Tech 4th Civil (4-Boys+2-Girls),

B. Tech 6th Civil 6th Sem (3-Boys) and

B. Tech Chemical (15 Boys+1-Girl)

Total 29 Students (26-Boys, 3-Girls)

Faculty Members (3 (Civil)+2(Chemical)=5 Nos)

Department of Civil Engineering of Chhotubhai Goplabhai Patel Institute of Technology (CGPIT), Uka Tarsadia University (UTU) organized a guest lecture on "Recent Trends in Water Supply and Wastewater Treatment" on 9th March 2026. The primary objective of this lecture was to bridge the gap between the theoretical knowledge imparted in the Diploma and B. Tech curriculum and the rapidly evolving practical applications in the water sector. The lecture aimed to expose students to the pressing challenges of water scarcity and pollution, while also introducing them to cutting-edge technologies that are shaping the future of the industry.

The rapid pace of urbanization and population growth has intensified the demand for safe and reliable water supplies. This challenge is further compounded by climate change, the over-extraction of groundwater, and increasingly unpredictable rainfall patterns. Simultaneously, the effective management of the vast quantities of wastewater generated has become a critical concern for municipal bodies. In response, the industry is transitioning toward smart, automated, and resource-recovery-based models, making it essential for students to understand these modern paradigms. The lecture successfully addressed this need and witnessed active participation from faculty members, as well as diploma and undergraduate engineering students.

The lecture was started with welcome of speaker. Dr. Manoj Gundalia, Professor and Head, Department of Civil Engineering (DCE) felicitated the speakers with bouquet. He congratulated the DCE for organizing this guest lecture and gave brief introduction of Uka Tarsadia University, CGPIT and DCE. He explored the importance and purpose of this lecture in his inaugural address. He discussed current scenario of urbanization development, population growth, water supply and modern wastewater treatment technologies. He also explained the aim, objectives and need of the lecture for bringing awareness on environmental engineering sector. He appreciated and congratulated to the coordinators for organizing such lecture.

The lecture was delivered by Ms. Hemali Jardosh, Assistant Professor in Department of Civil Engineering of Sarvajanik University, Surat. She started her lecture with brief introduction of Water Treatment Plant (WTP), a Sewage Treatment Plant (STP) , and an Effluent Treatment Plant (ETP).



Prof. Dr. Manoj Gundalia gives brief introduction about the topic.



Dr. Manoj Gundalia, Professor and Head, Department of Civil Engineering (DCE) felicitated the speakers with bouquet.



Mr. Gunvant Solanki felicitated the Prof. Dr. Manoj Gundalia with bouquet.



Prof. Hemali ma'am shared knowledge about wastewater treatment and environmental management.



Expert discussed the working and design of Water Treatment Plants (WTP).



Expert explained the process and components of Sewage Treatment Plants (STP).



Expert highlighted the importance of water conservation and sustainable practices.



Expert Prof. Hemali discussed real-world applications of environmental engineering in industries.



Expert shared knowledge about wastewater treatment and environmental management.



The session concluded with a formal vote of thanks proposed by Dr. Vaibhav Pawar, Assistant Professor of DCE, CGPIT

The guest lecture was highly informative and successful in expanding the horizons of Diploma and B. Tech students regarding the latest trends in the water industry. It effectively highlighted the shift from traditional methods to smart, sustainable, and resource-efficient technologies. She made the lecture interesting by asking questions to the participants. The session was ended with questions answering. The session concluded with a formal vote of thanks proposed by Dr. Vaibhav Pawar, Assistant Professor of DCE, CGPIT, who appreciated the speaker for taking time out of her busy schedule to share invaluable insights and inspiring the next generation of engineers to take up challenges in the water sector.