



G. P. JAMNAGAR CIVIL ENGG. DEPARTMENT NEWSLETTER

July 2024



Renowned Expert Discusses Emotional Intelligence at Professional Success An expert lecture was delivered by Smt. Sweta Madam

An esteemed expert delivered an enlightening lecture on the pivotal role of emotional intelligence in achieving professional success, emphasizing practical strategies for workplace application.



Exciting News! 🎉

We're thrilled to announce the complete renovation of our computer laboratory, thanks to the generous donation from Sewta Madam of Shree Venkatesh Engineering.

This modernized lab features new computers, updated software, and enhanced facilities, providing a state-of-the-art learning environment for our students.

We extend our heartfelt gratitude to Sewta Madam for her unwavering support and commitment to enhancing our educational resources.



A leading expert delivered an impactful lecture on the essentials of emotional intelligence, demonstrating how these skills are crucial for navigating and succeeding in today's professional landscape.

An engaging lecture by an emotional intelligence expert revealed the mechanisms through which emotional awareness and regulation drive professional success, providing practical tips for attendees.

NON-DESTRUCTIVE TESTING (NDT) IS A RANGE OF ANALYSIS TECHNIQUES USED IN VARIOUS INDUSTRIES TO EVALUATE THE PROPERTIES OF A MATERIAL, COMPONENT, OR SYSTEM WITHOUT CAUSING DAMAGE. THESE METHODS ALLOW FOR THE INSPECTION AND ASSESSMENT OF THE INTEGRITY, COMPOSITION, OR STRUCTURE OF A MATERIAL OR COMPONENT WHILE LEAVING IT INTACT AND FULLY FUNCTIONAL. NDT IS CRUCIAL FOR DETECTING DEFECTS, ENSURING QUALITY CONTROL, AND VERIFYING THE SAFETY AND RELIABILITY OF PRODUCTS WITHOUT COMPROMISING THEIR FUTURE USABILITY.



Dr. J. V. Mehta, and Prof. Bhargav Gokani, VVP Engg conducted an expert lecture on non-destructive testing. College, Rajkot

Purpose:

- **Inspection and Evaluation:** Used to identify flaws, defects, or inconsistencies within materials or structures.
- **Quality Control:** Ensures products meet specified standards and regulations.
- **Safety Verification:** Verifies the safety and reliability of critical components.

Techniques:

- **Visual Testing (VT):** Examines the surface for visible defects using the naked eye or tools like magnifying glasses.
- **Ultrasonic Testing (UT):** Uses high-frequency sound waves to detect internal flaws.
- **Radiographic Testing (RT):** Uses X-rays or gamma rays to capture images of the interior of materials.
- **Eddy Current Testing (ET):** Utilizes electromagnetic induction to detect flaws in conductive materials.



Applications:

- **Manufacturing:** Used during and after production to ensure the quality and integrity of products.
- **Construction:** Inspects structural components like bridges, buildings, and pipelines.
- **Aerospace:** Ensures the integrity of aircraft components and structures.
- **Automotive:** Assesses vehicle parts for defects and reliability.



A water treatment plant is a facility that processes water to make it suitable for specific end uses such as drinking, industrial processes, irrigation, or returning it safely to the environment. A sewage treatment plant (STP) is a facility that cleans sewage from various establishments to make it safe to release into the atmosphere.



Operating a wastewater treatment plant requires careful attention to several key points to ensure efficient and effective treatment of wastewater. Here are five key points to observe:

1. Influent Quality Monitoring:
2. Process Control and Optimization
3. Sludge Management:
4. Effluent Quality Monitoring:
5. Maintenance and Safety Protocols

Observing the filter bed in a water treatment plant (WTP) involves inspecting the filtration unit to ensure it operates effectively. The filter bed is critical in removing particulate matter from the water.

1. Raw Water Intake → 2. Screening → 3. Coagulation → 4. Flocculation → 5. Sedimentation → 6. Filtration → 7. Disinfection → 8. pH Adjustment → 9. Storage → 10. Distribution

Visual Inspection:

Surface Condition: Check for uniformity, cracks, or clogging on the surface.

Presence of Algae: Look for any greenish growth indicating biological activity.

Surface Crusting: Indicative of mineral build-up or organic matter.



LEADERSHIP INITIATIVE

Gujarat Youth Parliament 2024 was organized by SVGRYB at Gandhinagar. In which approximately 2000 students from 83 universities including government and private of Gujarat registered to participate. Among these 550 final selected students, Nikhil Satishbhai Gori (236250306024) who is the only one from Jamnagar district and studying in the second semester of civil department of our institute, has been made MP.

