



Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai

At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Tel.: 777 000 2544 • Website : www.viva-technology.org

NAAC “B++” Grade

Subject: GE-I

Place: Virar (w)

Date: 30th September, 2024

Time: 10:30 am

Name of the speaker : Vivek Rajesh Mishra

Topic : Geotechnical site investigation & Soil Testing

Programme/Summary details : As part of the curriculum for **Third Year Civil Engineering** students under the **University of Mumbai**, a **guest lecture** was conducted for the subject **Geotechnical Engineering (GE-I)**. The lecture took place at **VIVA Institute of Technology** at **10:30 a.m.** and was an engaging and informative session. The speaker shared valuable knowledge and practical insights related to the subject, making it a highly enriching experience for all students. The lecture provided a deeper understanding of the field, and the session was both well-organized and beneficial.

About the Site : In a recent **guest lecture** for our **Geotechnical Engineering (GE1)** subject, we learned about the key procedures involved in soil investigation for construction projects. The lecture emphasized the importance of performing a **survey of the surrounding area** to determine the appropriate positioning for drilling. The use of a **Calyx Drilling Machine** for collecting **Undisturbed (UDS) and Disturbed Samples** was discussed, along with the **Standard Penetration Test (SPT)** to assess soil strength. After collecting samples, they are recovered, and the **type of soil** is identified for further analysis. On-site, a **Borelog report** is prepared, and the samples are then transported to the lab for additional testing. Based on the soil characteristics, comprehensive tests are conducted, and the results are compiled into a **final report**, which includes both lab data and **design parameters** for the project



Guest lecture on Geotechnical site investigation & Soil Testing