



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra
And Affiliated to University of Mumbai

ACCREDITED by NAAC with "B++" Grade

Topic Name: Guest Lecture on Construction Equipment Techniques.

Div:

Place: Seminar Hall, Viva Institute of Technology.

Date: 25 March 2025.

Time: 11:00 am to 1:00 pm.

Introduction:

Mr. Vivek Mamdapur, an expert in the field of Civil Engineering, delivered an insightful lecture on the nuances of Construction Equipment Techniques. His extensive experience in the industry provided a practical perspective on these essential business processes.

Key Topics Discussed:

1. Introduction to Construction Equipment:

Types of Earth moving Equipment like Excavators, Dumpers, Bulldozers.

2. Underground and Underwater Tunneling:

Pile Driving Equipment like Piling Hammer, Piling Rigs, Pile Driver. Various type of Tunneling Method - Micro tunneling, New Austrian tunneling method (NATM), Cut & cover method.

Different types of Boring Machine - Vertical shaft sinking machine (VSM).

Tunnel Boring machine (TBM) .

3. Modern Formwork Systems :

Mivan, Doka shuttering. Prefabricated housing systems.

4. Techniques for Construction of Transporting Facilities:

Application of Drones, GIS, GPS and BIM.

Light Detection and Ranging (Lidar) Technique.

5D BIM integration in Metro projects.

5. Techniques for Construction of Generation/Supply Structures:

Hydropower station. Tidal power plants.

Desalinization plants. Thermal power station.

Solar power station. Atomic power generation .

Recommendations:



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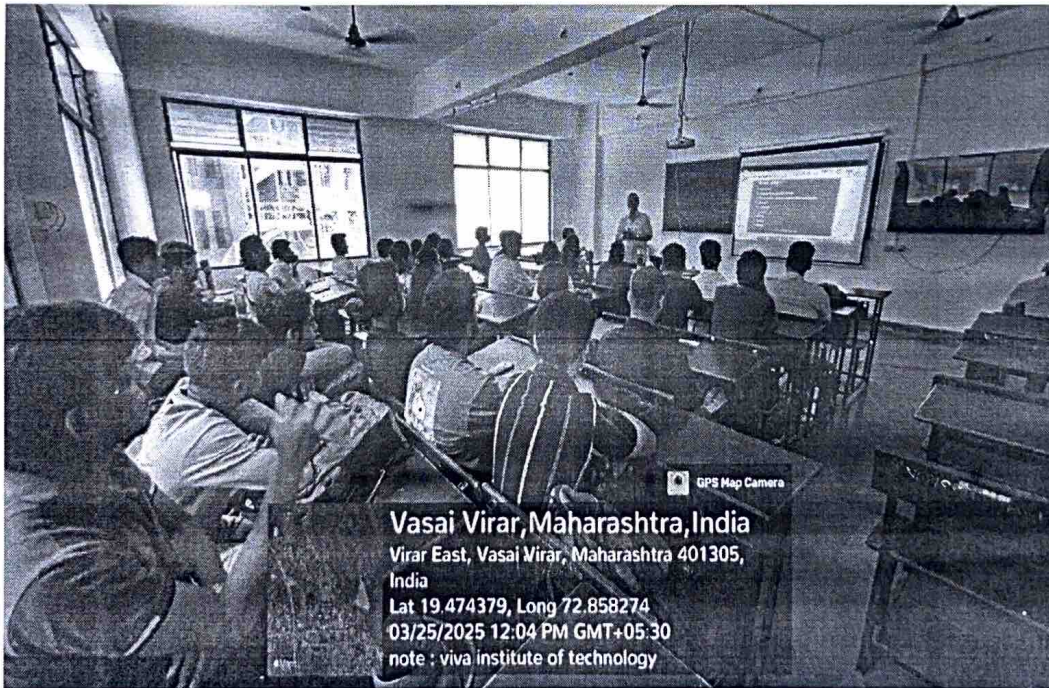
1. Implement robust advanced equipment and techniques.
2. Enhance educational programs to raise awareness.
3. Foster collaborations for sustainable management.

Acknowledgments:

We extend gratitude to lecturer for their assistance during our lecture.

Conclusion:

Mr. Vivek Mamdapur's lecture provided valuable insights into the intricacies of Construction Equipment Techniques. His emphasis on best practices and compliance highlighted the Advanced techniques used in Construction. The interactive Q&A session allowed attendees to clarify doubts and engage in meaningful discussions.

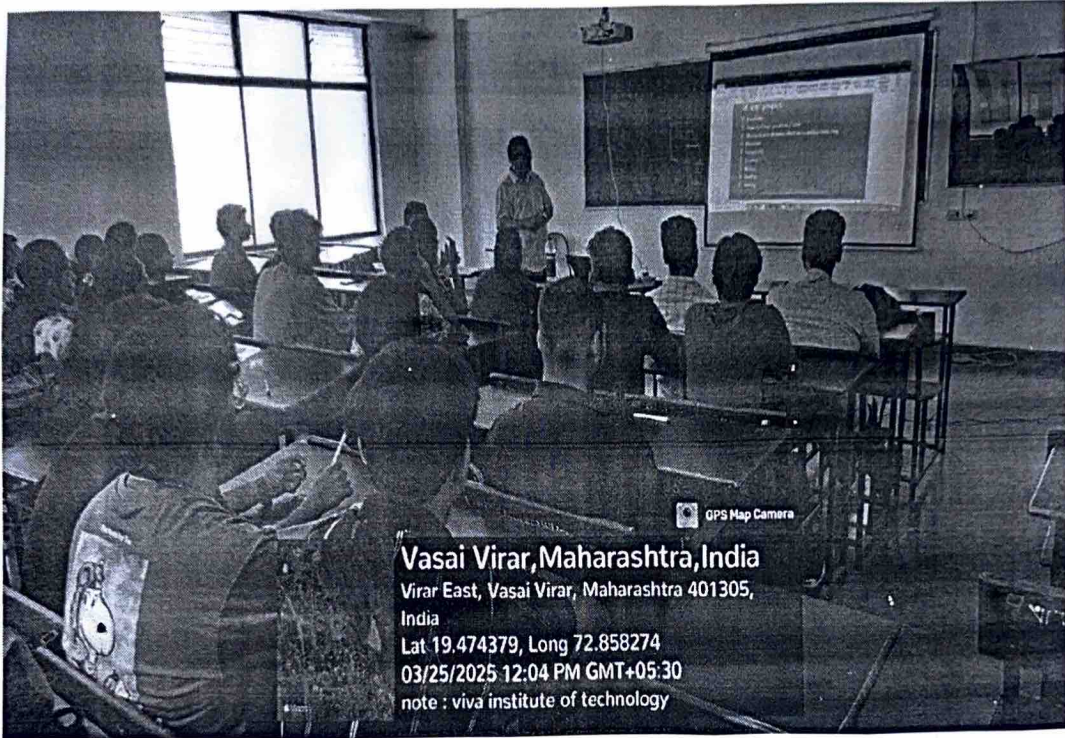




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Vasai Virar, Maharashtra, India
Virar East, Vasai Virar, Maharashtra 401305,
India
Lat 19.474379, Long 72.858274
03/25/2025 12:04 PM GMT+05:30
note : viva institute of technology