



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**

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**Report on Guest Lecture: Building Information Modelling (BIM)**

**Date:** 08th April 2025 (Tuesday)

**Time:** 10:00 AM to 12:00 PM

**Venue:** Civil Engineering Seminar Hall

**Guest Speaker:** Mr. Omkar Repal, Structural BIM Modeler, *Silicon Engineering Consultants Pvt. Ltd.*

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## 1. Introduction

The Civil Engineering Department of VIVA Institute of Technology organized a Guest Lecture on “**Building Information Modelling (BIM)**” for the students of S.E., T.E., and B.E. Civil Engineering on 08th April 2025. The lecture aimed to introduce students to the latest BIM technologies and their applications in the real estate and infrastructure sectors, with an emphasis on structural modeling.

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## 2. Key Learnings

The session delivered by **Mr. Omkar Repal** covered the following essential aspects:

- **Concept of BIM** and its evolution from traditional 2D CAD to intelligent 3D modeling.



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- **BIM in Structural Design:** Integration of structural data into project lifecycle using Revit and other modeling tools.
- **Clash Detection & Coordination** in multi-disciplinary projects to reduce site rework.
- **Software Demonstration:** Live demo of structural modeling in Revit with real-world project snapshots.
- **Industry Relevance:** Importance of BIM in large-scale projects, cost control, and time efficiency.
- **Career Guidance:** Roles of a BIM Modeler, Coordinator, and future scope in national and international markets.

## Student Response

Students found the session highly engaging and informative. The technical demonstration and industry insights encouraged many to consider BIM training and certification as part of their skillset enhancement. The Q&A session provided clarity on tools, job roles, and practical project execution using BIM.

## Conclusion

The guest lecture by Mr. Omkar Repal was a valuable experience that bridged the academic-industry gap. It enhanced the students' understanding of digital construction workflows and highlighted the importance of BIM in modern-day structural engineering.

