

NATIONAL LEVEL WORKSHOP ON DESIGN OF TALL BUILDING

Department of Civil Engineering is going to organize a Two Days National Level Workshop on “Design of Tall Building”.

Dr. D. Y. Patil School of Engineering

“National Level Workshop on Design of Tall Buildings”

- **Date:** 27-28 Sept, 2014
- **Organizing Department:** Department of Civil Engineering.
- **Venue:** Dr. D. Y. Patil School of Engineering
D. Y. Patil Knowledge City
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About Workshop:

What is this workshop about?

The design of tall buildings essentially involves conceptual design, approximate analysis, preliminary design and optimization to safely carry different loads acting on structure. The structural design for a skyscraper must ensure that the building is able to stand up safely, able to function without excessive deflections or movements which may cause fatigue of structural elements, cracking or failure of fixtures, fittings or partitions, or discomfort for occupants. Tall Building Design Workshop primarily aims at educating the participants about analysis and design of tall buildings.

Students will be introduced to Structural building engineering and associated software used in tall building design. With the help of various case studies, the participants would be made to understand and develop the skills required for designing tall buildings in the real world. Participants will learn to evaluate different problem statements given to them and so increase proficiency in key civil engineering concepts.

Course Outcomes

- This workshop helps participants learn technical skills through hands-on learning activities.
- The program is designed to take the participants through the technical concepts involved in Civil Engineering especially Structural building engineering
- The participants would practically work on analyzing and designing a tall building using the simulation software
- With the help of various case studies, the participants will understand the implication of tall building design in real world
- The participants would be exposed to the approach towards tall building design and the corresponding level of evaluation with increase in complexity of a structure
- Group discussions to encourage innovation
- Interview tips to face interviews with confidence

Course Structure and Topics Covered

This workshop is split into 2 modules:

- **Lecture:** Participants would be taught various concepts and techniques involved in 'Design of Tall Buildings'.
- **Practical session:** This session would involve CAD based modeling and analysis of Tall Buildings.

Topics Covered

- Introduction to tall building systems.
- Theory of load resisting systems.
- Industrial approach to projects.
- Case studies from real industry problems.
- Understanding and analysis of the different load acting on a structure.
- Modeling, Designing and analyzing the structure on software.
- Live Demonstration and practical examples
- Evaluation of different problem statements.

Information Boucher and Application forms