

# Post Graduate Program in High-Rise Building Design & Analysis

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Hi, thanks for showing interest in our Post Graduate Program in High-Rise Building Design & Analysis Program. It was great talking to you. Here are the details regarding the course.

## **\*Duration of the course\***

Full Time : 12 months

Part Time : 24 months

## **In this program, you will learn the below course**

1. Civil Engineering Fundamentals Module
2. Autocad essentials for Civil Engineer
3. Analysis and Design of RCC & Steel Structures using Tekla Structural Designer
4. Structural Analysis and Design of Composite Structures using ETABS
5. Design of Tanks by Finite Element Analysis using ANSYS
6. Design of Tensile structures
7. Structural steel connections using RAM Connections
8. Analysis and Design of Buildings using STAAD.Pro - A Professional Approach
9. Drafting and Design Using Revit
10. Analysis and Design of High Rise Buildings using ETABS and Foundation Design using SAFE for Seismic Loads
11. Mastering Shear Force and Bending Moment Diagrams

## **\*Projects\***

1. Calculation of Concrete Mix Design with and without Fly Ash for Both M35 and M50 Grade Concrete
2. Sketching a G+1 Residential Plan according to Vaastu Shastra and Calculation of Basic Loads
3. Design and Draft the Layout of a Residential Building and Prepare Architectural Floor Plans and Structural Drawings
4. Designing the 3D Model of a Building using AutoCAD 3D
5. Modeling, Analysis and Design of an Industrial Steel Building supporting 10Ton Crane capacity as per IS Code using Tekla Structural Designer
6. Modeling, Analysis and Design of a RCC Office building as per IS code using Tekla Structural Designer
7. Modelling, Analysis, & Design of Tall Buildings in ETABS
8. Modelling, Analysis & Design Of Composite Structures in ComFlor & ETABS
9. Analysis and design of a storage reservoir for a small rural town with a combination of STAAD.Pro. and manual method
10. Analysis and design of a overhead storage reservoir having same size as calculated during project-1 with IS code
11. Analyze the beam & draw bending moment and shear force diagrams
12. Modeling of four-storied three-bay frames using ETABS
13. Perform Form-finding and Structural Analysis Structure of Multiple Masts
14. Model a Membrane Roof with Cables
15. Design and Optimize Base Plate Connection
16. Design and Optimize Splice Plate Connection in RAM STAAD Connection software

17. Design of RCC Building using STAAD.Pro
18. Design of an Industrial Building using STAAD.Pro
19. Building 3D Model from Concept Stage to Design using Revit
20. Creating Architectural and Structural Models and detecting the clashes using Naviswork
21. Integrating Dynamo and Autodesk Revit
22. Preparation of Schedule and Cost Estimation report using Revit
23. Comparative Study of Different Storey Buildings for Various Seismic Parameters using ETABS Software
24. Analyze and Design a Hostel Building in Guwahati, Assam (Zone V)

**\*Software\***

1. AutoCAD
2. Staad.Pro
3. ETABS
4. SAFE
5. REVIT
6. RFEM
7. Tekla Structural Designer
8. ComFlor
9. RAM Connections

**\*Must Watch\***

<https://youtu.be/A9HnVAHTIAs>

**\*Demo videos\***

Design and Drafting using Revit - <https://youtu.be/ktfljsZZJrw>

Structural design of buildings using Staad.pro

Part 1: <https://youtu.be/1M5Du1IbnmA>

Part 2: <https://youtu.be/KVniRP0HMck>

Part 3: <https://youtu.be/c90GTzRU4ws>

Part 4: <https://youtu.be/SB8B2ao0Dhg>

Part 5: <https://youtu.be/k1oSdznwHas>

Part 6: <https://youtu.be/1M5Du1IbnmA>

**\*Description of course content\***

<https://skill-lync.com/civil-engineering-courses/masters-high-rise-building-design-analysis>

**\*Success stories\***

Check out the Placements of our customers at [Skill Lync Success Stories.pdf](#) and also hear what they say about our courses at <http://bit.ly/skill-lync-google-reviews>. Visit the Project Portfolios of students placed in reputed companies after taking Skill-Lync courses-

[Sarthak's skill-lync Profile : Skill-Lync](#)

[alagu's skill-lync Profile : Skill-Lync](#)

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