

SLOG SOLUTIONS PRIVATE LIMITED
TECHNOLOGY: ETABS
DURATION: MODULE 1 (4 WEEKS)
MODULE 1 + 2 (6 WEEKS)

MODULE 1:

INTRODUCTION TO ETABS:

- Introduction of ETABS
 - Starting ETABS
 - Creating New file
 - Opening Existing File
 - Closing a file
 - Saving & Saving As
 - Module Review
- Salient Features
- Hardware Requirements
- ETABS Screen information
- Overview of Structural Analysis and Design
- Types of Structures
- Idealization of Structures
- Various Unit Systems
- Coordinate Systems
 - Global Coordinate System
 - Local Coordinate System
- ETABS Commands and Input Instructions
- Command Formats
- Problem Initiation and Title

MODELLING IN ETABS

- Starting a New Model
- New Model Quick Templates
- Grid System Data
- Add Structural Objects
- Edit Stories and Grid System
- Add Grid at Selected Joints
- Grid Options
- Save the Model

STRUCTURAL OBJECTS

- Draw Grids
- Draw Dimensions Line
- Draw Joint Objects
- Draw Beam / Column / Brace Objects
- Draw Floor / Wall Objects
- Draw Reference Points
- Draw Reference Planes
- Draw Wall Stacks

EDITING PROPERTIES

- Replicate
- Extrude
- Extrude Joints to Frames
- Extrude Frames to Shells
- Merge Joints
- Align Joints / Frames / Edges
- Move Joints / Frames / Shells
- Edit Frames
- Edit Shells

SELECTION PROPERTIES

- Select
- Deselect
- Invert Selection

SUPPORT AND LOAD ASSIGN

- Global Support Specifications
 - Fixed / Pinned / Fixed but Release / Spring Supports
 - Inclined Supports
- Joints
- Frame
- Shell
- Joint Load
- Frame Loads
- Shell Loads

DESIGN

- Concrete Frame Design
- Concrete Design as per IS 456-2000
- Composite Beam Design
- Composite Column Design
- Shear Wall Design
- Steel Design as per IS 800-2007

SEISMIC ANALYSIS:

- Introduction to Seismic analysis
- Earthquake loading in high rise buildings
- Implementation of various load combinations of Earthquake analysis using IS 1893
- Static and Dynamic
- Response Spectrum

LOADING PARTICULARS:

- Loading Specifications
- Self-weight Loading Specifications
- Member Load Specifications
- Area Load / Floor Load Specifications
 - Area Load
 - Floor Load
- Load Combination Specifications
- Shell Uniform Load Sets

• **ANALYSIS**

- Analysis Specifications
- Print Specifications
 - Pre- Analysis Print Commands
 - Post Analysis Print Commands
- Load List Specifications
- Report Generation
 - Output file

• **WIND LOAD ANALYSIS**

- Introduction to Wind load analysis Calculation of wind forces in High rise building
- Analysis and Design of building for Wind loading

DETAILING

- Detailing Process
 - Edit Views
 - CSI Detailing
 - Export detail drawing in AutoCAD
- Create and Manage Drawing Sheets

MODULE 2:

- Foundation design using SAFE software



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