Engineers 3D
IT & ENGINEERING SERVICES
TRAINING PROJECTS PLACEMEMNTS

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Structural Design & Analysis using ETABS

Course Curriculum (Duration: 60 Hrs.)

Chapter 1: Introduction to ETABS

a. Overview of ETABS
b. Getting Help
c. Templates and Defaults
d. Graphical User Interface
e. ETABS Screen Menus
f. Units System
g. Coordinate Systemes

Chapter 2: Modelling In ETABS

a. Starting a New Model
b. New Model Quick Templates
c. Grid System Data
d. Add Structural Objects
e. Edit Stories and Grid Systems
f. Add Grid at Selected Joints
g. Grid Options
h. Save the Model

Chapter 3: Editing Properties

a. Replicate
b. Extrude
    - Extrude Joints to Frames
    - Extrude Frame to Shells
c. Merge Joints
d. Align Joints/Frames/Edges
e. Move Joints/Frames/Shells
f. Edit Frames
g. Edit Shells

Chapter 4: Defining Properties

a. Material Properties
b. Section Properties
c. Load Patterns
d. Shell Uniform Load Sets
e. Load Cases
f. Load Combinations

Chapter 5: Structural Objects

a. Draw Grids
b. Draw Dimension Lines
c. Draw Joint Objects

d. Draw Beam/Column/Brace Objects
e. Draw Floor/Wall Objects
f. Draw Reference Points
g. Draw Reference Planes
h. Draw Wall Stacks

Chapter 6: Selection Properties

a. Select
b. Deselect
c. Invert Selection

Chapter 7: Assign

a. Joint
b. Frame
c. Shell
d. Joint Loads
e. Frame Loads
f. Shell Loads

Chapter 8: Design

a. Steel Frame Design
b. Concrete Frame Design
c. Composite Beam Design
d. Composite Column Design

Chapter 9: Detailing

a. Detailing Process
b. Edit Views
c. Create and Manage Drawing Sheets

Chapter 10: Display & Generate Results

a. Obtain Basic Graphical Displays
b. Graphical Displays using Model Explorer
c. Tabular Display of Results
d. Summary Report
e. Export Results

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