SP INSTITUTE
Learn Practising Design

QUICK RECKONING PRACTICAL DESIGN IN ETABS
[T002]

SPECIALITIES IN THIS TRAINING

- **SP INSTITUTE** Since 2011 owned by **SP STRUCTURES** (Civil & Structural Consultancy), Chennai.
- **SP INSTITUTE** Chief Executive Er.P.Sabarinathan (Trainer) Student of **Prof. A.R.Santhakumar IIT(M)**
- Deep Knowledge on RCC Analysis and Design based on ETABS
- Interpreting the analysis results and Justifying the behaviour of structural elements with manual calculations
- **Modelling Tips and Design Tricks**
- Understanding the Behaviour of RCC Elements and Structures
- **Unlimited Period of Training**
- Experience Certificate and Demonstration on SAFE V16.0 and RCDC Software
- Govt. of INDIA **UDAYAM MSME Registration** UDAYAM- TN-02-0027071 Certificate
- Placement reference for Students/Engineers
- **SP STRUCTURES** office environment exposure

SOFTWARE LICENSES

The Latest software owned by **SP INSTITUTE**

- ETABS
- RCDC and RCDC FE
- SAFE

MODE OF TRAINING

- At Respective Training Center (Offline)
- Online

INSTRUCTIONS

1. Students/ Engineers must bring their own laptop, pen drive Mouse etc.,
2. The Internet Speed must be Good

H.O: # 5, II Floor, I Street, Seetha Nagar, Nungambakkam, Chennai- 600034.
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www.spiinstitute.in

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SESSIONS

SESSION-1 ABOUT THE PRACTICAL ETABS STRUCTURAL DESIGN

SESSION-2 GRID FORMATION

a. CREATING THE GRID AS PER AUTOCAD DRAWING

b. EDITING GRIDS AUTO CAD TO ETABS

SESSION-3 EDIT

a. QUICK / STOREY STOREY

b. REPLICATE

c. EDIT FRAMES/ SHELLS

d. ALIGN JOINTS

SESSION-4 DEFINTION

a. DEFINE MATERIAL,

b. DEFINE STRUCTURAL ELEMENTS

   COLUMN ,BEAM, SLAB (Shell and Membrane)

c. DEFINE LINK

d. DEFINE DIAPHGRAM

e. DEFINE GROUP

f. DEFINE LOAD, SHELL UNIFROM LOAD AND LOAD COMBINATION

SESSION-5 DRAW(MODELLING) STRUCTURAL ELEMENTS

a. DRAW COLUMNS, BEAMS ,FLOORS AND STAIR

b. DRAW LINKS

c. DRAW REFERENCE POINTS PLANE

d. DRAW DIMENSION LINE

SESSION-6 SELECT/ DESELECT OPTION

a.   SELECT USING OBJECT / PROPERTIES/ LABEL/ GROUP/ STORIES

b.   DESELECT USING OBJECT / PROPERTIES/ LABEL/ GROUP/ STORIES

SESSION -7 ASSIGNMENT

a. SUPPORT DISCUSSION FIXED/ PINNED / CONTINUOUS

b. ASSIGN JOINTS/ FRAMES/ SHELL/ LINKS

c. ASSIGN JOINT AND ITS LOADS

d. ASSIGN FRAME AND ITS LOADS

e. ASSIGN SHELL AND ITS LOADS

f. APPLICATION BASED ON MANUAL LOAD CALCULATION

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SESSION -8 MODELLING CHECK
a. ERROR ANALYSIS AND RECTIFICATION
SESSION-9 ANALYSIS
a. SET LOAD CASE
b. ANALYSIS RESULTS AND DISCUSSION
c. MODEL ALIVE
SESSION-10 –DISPLAY SETTING
a. DISPLAY DEFORMED SHAPE
b. DISPLAY UNDEFORMED SHAPE
c. DISPLAY LOAD ASSIGNS
d. DISPLAY
b. DISTRIBUTION OF LOADS ON BEAM
SESSION-11- DESIGN SETTINGS
a. DESIGN AND OVERWRITE PREFERENCE
b. DISPLAY REINFORCEMENT
c. REINFORCMENT ANALYSIS BASED ON IS 456
d. CHANGE DESIGN SETION
e. VERIFY ANALYSIS VS DESIGN
f. ETABS TO AUTO CAD
SESSION-12 ETABS TOOLS
SESSION-13
a. EXPORT TO OTHER SOFTWARES (SAFE, STAAD)
b. EXPORT TO LOWER ETABS VERSION
c. CREATING PROJECT REPORT
d. UPLOAD TO CSI CLOUD
SESSION-14 IS Codes
Discussions on IS Codes

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