

# ETABS SYLLABUS

<b>ETABS</b>	<b>Time:- 30 Days/60Hrs.</b>
<b>Projects</b>	<b>Time:- 30 Hrs.</b>

<b>DAYS</b>	<b>Title</b>	<b>Contents</b>
<b>DAY 1</b>	<b>Introduction</b>	<ul style="list-style-type: none"><li>➤ Structure, types of structures, basic definitions, Idealization of structures</li></ul>
<b>DAY 2</b>	<b>About Etabs</b>	<ul style="list-style-type: none"><li>➤ Features, hardware requirements, Etabs screen organization</li></ul>
<b>DAY 3</b>	<b>About Etabs</b>	<ul style="list-style-type: none"><li>➤ GUI overview, Unit systems, Structure geometry and Coordinate systems (Global and Local)</li></ul>
<b>DAY 4</b>	<b>The Structural Model</b>	<ul style="list-style-type: none"><li>➤ Units</li><li>➤ Objects and Elements</li><li>➤ Groups</li><li>➤ Coordinate Systems and Grids</li><li>➤ Properties</li><li>➤ Load Cases</li></ul>
<b>DAY 5</b>	<b>The Structural Model</b>	<ul style="list-style-type: none"><li>➤ Functions</li><li>➤ Analysis Cases</li><li>➤ Combinations</li><li>➤ Design Settings</li><li>➤ Output and Display Definitions</li></ul>
<b>DAY 6</b>	<b>The Graphical User Interface</b>	<ul style="list-style-type: none"><li>➤ The Etabs Screen</li><li>➤ Main Window</li><li>➤ Menu Bar</li><li>➤ Toolbars</li><li>➤ Display Windows</li></ul>
<b>DAY 7</b>	<b>The Graphical User Interface</b>	<ul style="list-style-type: none"><li>➤ Status Line</li><li>➤ Using the Mouse</li><li>➤ Viewing Options</li><li>➤ 2-D and 3-D Views</li></ul>
<b>DAY 8</b>	<b>The Graphical User Interface</b>	<ul style="list-style-type: none"><li>➤ Perspective</li><li>➤ Pan, Zoom, and 3-D Rotate</li><li>➤ Limits</li><li>➤ Element View Options</li><li>➤ Other Options</li><li>➤ Refreshing the Display Window</li></ul>
<b>DAY 9</b>	<b>The Graphical User Interface</b>	<ul style="list-style-type: none"><li>➤ Basic Operations</li><li>➤ File Operations</li><li>➤ Defining Named Entities</li><li>➤ Drawing</li><li>➤ Drawing Objects</li><li>➤ Snap Tools</li><li>➤ Drawing Controls</li><li>➤ Selecting</li><li>➤ Selecting Graphically</li></ul>
<b>DAY 10</b>	<b>The Graphical User Interface</b>	<ul style="list-style-type: none"><li>➤ Selecting by Feature</li></ul>

		<ul style="list-style-type: none"> <li>➤ Editing</li> <li>➤ Assigning</li> <li>➤ Undo and Redo</li> <li>➤ Analyzing</li> <li>➤ Displaying</li> <li>➤ Graphical Displays</li> </ul>
DAY 11	The Graphical User Interface	<ul style="list-style-type: none"> <li>➤ Model Definition</li> <li>➤ Analysis Results</li> <li>➤ Function Plots</li> <li>➤ Tabular Displays</li> </ul>
DAY 12	The Graphical User Interface	<ul style="list-style-type: none"> <li>➤ Designing</li> <li>➤ Locking and Unlocking</li> <li>➤ Entering Numerical Data</li> <li>➤ Setting Options</li> </ul>
DAY 13	Define Grid System	<ul style="list-style-type: none"> <li>➤ Selecting Template</li> <li>➤ Entering Grid System Data</li> <li>➤ Adding Grid Lines in X, Y and Z Directions</li> </ul>
DAY 14	Define Material Properties	<ul style="list-style-type: none"> <li>➤ Specify Design Parameters</li> <li>➤ Material Property Data</li> </ul>
DAY 15	Define Section Properties	<ul style="list-style-type: none"> <li>➤ Add Frame Section Property</li> <li>➤ Specify Frame Section Properties for Beam</li> </ul>
DAY 16	Define Section Properties	<ul style="list-style-type: none"> <li>➤ Add New Frame Section Properties for Column</li> <li>➤ Specify Area Section Properties for Slab</li> </ul>
Day 17	Draw	<ul style="list-style-type: none"> <li>➤ Drawing beams with different methods</li> <li>➤ Drawing Columns with different orientation</li> <li>➤ Drawing slabs</li> </ul>
DAY 18	Assigning Properties	<ul style="list-style-type: none"> <li>➤ Assigning Properties to Frame Elements</li> <li>➤ Assigning Properties to Area Elements</li> </ul>
DAY 19	Assign Restraints	<ul style="list-style-type: none"> <li>➤ Assigning Fixed, Pinned, Roller Support at Joints</li> </ul>
DAY 20	Define and Assign Load Cases	<ul style="list-style-type: none"> <li>➤ Adding and Assigning Dead Load Case</li> <li>➤ Adding and Assigning Live Load Case</li> </ul>
DAY 21	Define and Assign Load Cases	<ul style="list-style-type: none"> <li>➤ Adding and Assigning Wind Load Case</li> <li>➤ Adding and Assigning Seismic Load Case</li> </ul>
DAY 22	Defining Load Combinations	<ul style="list-style-type: none"> <li>➤ Adding different Load Combinations for dead Load, Live Load, Wind Load and Seismic Load</li> </ul>
DAY 23	View Analysis Results in Tabular Form	<ul style="list-style-type: none"> <li>➤ View Analysis Result Diagrams of Frame Elements</li> <li>➤ View Analysis Result Contour in Slab Panels</li> </ul>
DAY 24	Concrete Design	<ul style="list-style-type: none"> <li>➤ Concrete Frame Design and View Design Results</li> </ul>
DAY 25	View Design Parameters	<ul style="list-style-type: none"> <li>➤ View Load Combination for Concrete Frame Design</li> </ul>
DAY 26	View Design Parameters	<ul style="list-style-type: none"> <li>➤ View Reinforcement for Frame Design</li> <li>➤ View Percentage Steel for Frame Design</li> </ul>
DAY 27	Steel Design	<ul style="list-style-type: none"> <li>➤ Steel Frame Design and View Design Results</li> </ul>
DAY 28	View Design Parameters	<ul style="list-style-type: none"> <li>➤ View Load Combination for Steel Frame Design</li> </ul>
DAY 29	Projects	<ul style="list-style-type: none"> <li>➤ Concrete Structure</li> </ul>
DAY 30	Projects	<ul style="list-style-type: none"> <li>➤ Steel Structure</li> </ul>