



TECHHUB SOLUTIONS

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STAAD Pro Syllabus

Main topic	Sub topic	Time
Basics, Analysis of a structure, Designing of the analyzed structure.	Starting the staad pro v8i, Staad pro basic definition (e.g. project task,license configuration, help topics,staad news) , creating a new project , creating a structure (creating nodes and beams) , defining property , defining support , defining material , defining load case details , beat angle , load combinations , perform analysis , postprocessing, checking node reactions , graphs . Designing of the analyzed structure, defining commands, defining parameters.	Practice session
Analysis and design of a Building (g+5) with dead and live load and seismic load	Creating the g+5 building , defining property , defining support , defining material , defining load case details ,defining the seismic load , load combinations , perform analysis , post processing , checking node reactions , graphs . Designing of the analyzed structure, defining commands, defining parameters.	Practice session
Complete Analysis and design of a building wind load.	Creating the g+5 building , defining property , defining support , defining material , defining load case details , defining the wind load, load combinations , perform analysis , post processing , checking node reactions , graphs . Designing of the analyzed structure, defining commands, defining parameters.	Practice session
Design of slab	Creating the slab , defining support ,creating parametric model , mesh model , merging panels ,defining thickness (plate element thickness) , load combinations , perform analysis , post processing , checking node reactions , graphs . Designing of the analyzed structure, defining commands, defining parameters.	Practice session
Design of stairs	Creating the stairs , defining support ,creating parametric model , mesh model , merging panels ,defining thickness (plate element thickness) , load combinations , perform analysis , post processing , checking node reactions . Designing of the analyzed structure, defining commands, defining parameters.	Practice session
Design of shear wall and drawing curved beams	Creating the shear wall, defining thickness (surface thickness), defining support, defining material, Defining special load case for shear wall, load combinations, perform analysis. Designing of the analyzed structure, design of shear wall and concrete design separately, defining commands, defining parameters.	Practice session
Design Rectangular	Creating the rectangular water tank, defining thickness	Practice session

water tank ,Secondary beam	(plate thickness), defining support, defining material, Defining special load case for rectangular water tank, load combinations, perform analysis. Designing of the analyzed structure, defining commands, defining parameters, Drawing secondary beam.	
Design of circular water tank ,curved beams	Creating the circular water tank ,defining thickness (plate thickness) , defining support ,defining material, Defining special load case for circular water tank , load combinations , perform analysis . Designing of the analyzed structure , defining commands , defining parameters	Practice session
Industrial truss design	Creating the truss model ,specifications of section data base , defining support ,defining material, Defining special load truss, load combinations , perform analysis , Designing of the analyzed structure , design for steel structures, defining commands , defining parameters	Practice session
Staad foundation basics 1.isolated footing 2.combined footing 3.Pile foundation	Determining the critical load case, opening staad foundation, job setup and designing finding cad drawing and calculations of isolated footing, combined and pile footing as a whole.	Practice session
Foundation 4.mat foundation &gui. Test and project submission	Determining the critical load case, designing of mat foundation, learning to use graphical user interface, Project submission andtest.	Practice session