



No. of Days	Topic				
Day 1	Overview of Structural Analysis andDesign Introduction STAAD.ProV8i Staad Pro Workspace Staad Pro Interface A. Menu bar B. Toolbar C. Mode Bar D. Page Control E. Datasheet				
Day 2	□ Co-ordinateSystems O Global Co-ordinate O Local Co-ordinate □ Units O Input Unit O Graphical Display Unit □ Dimensions				
Day 3	□ Labels O Node Labels O Beam Labels O Supports Labels □ Tools O Rotation Tools O Zoom Tools O View Tools				
Day 4	Geometry creation Methods O Snap /Grid Method O A. Linear Grid O B. Radial Grid O Copy Cut Method				
Day 5	Geometry creation Methods O Run Structure Wizard O Co-ordinate Method DXF Method/ Import CAD Models				
Day 6	☐ InsertNode O For a SingleMember O For MultipleMembers ☐ AddBeam O Point toPoint O BetweenMidpoints O PerpendicularIntersection				

Date	O CurvedMember			
Day 7	☐ Model EditingTools			
	O TranslationalRepeat			
	o CircularRepeat			
Day				
8	☐ Model EditingTools			
	O Move O Mirror			
	Datata			
	O ROTATE O COPY			
Day	0 17			
Day 9	☐ Model EditingTools			
	O Connect BeamsAlong			
	O Stretch SelectedMembers			
	 Intersect SelectedMembers 			
	O Create Collinear Bea			
Day	☐ Model EditingTools			
10	- 1 lodet Editing 100t3			
	O Merge SelectedMembers O Renumber			
	O SplitBeam			
	Break Beams at SelectedNodes			
Day	Section Properties			
11	O Circular			
	o Tee			
	O Trapezoidal			
	O Tapered			
	☐ Section Database			
	☐ Assignment Method			
	☐ User table			
	Beta Angle			
Day	☐ Structure Diagrams			
12	O Full Section			
	O Section Outlines			
	☐ Cut Sections/Plane			
	O Range By Joint			
	O Range By Min/Max			
	Select to View			
Day	Supports Assignment			
13	\square Introduction of structural supports			
	O Fixed Support			
	O Pinned Support			
	o Enforced			
	O Enforced But			

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	☐ Assignment Methods			
D	Member Offset			
Day 14	Loading NodalLoad Nodal Moment MemberLoad			
	O Uniform Force andMoment Concentrated Force andMoment Linear VaryingLoad TrapezoidalLoad HydrostaticLoad			
	☐ AreaLoad FloorLoad			
Day 15	Understanding & Calculating Building Loads Self-Weight of Members & Self Weight factor Linear Load- Wall Loads Calculation of Floor Dead Loads Distribution of Floor load One way & Two way			
	Special Loads- Lift machine load, Sunken load			
Day 16	☐ Introduction to Floor load & Live load as per IS 875-I & II ☐ Creation of Primary Load Cases O Primary Dead Load case O Primary Live Load case			
	☐ Load Combinations O Manual Combination			
	Method O Auto Load Combination Method			
	☐ Analysis & Print Command☐ Post Processing			
	O Result setup O Node reaction & displacement O Beam Forces Beam Graphs			
Day 17	Understanding Staad Editor Understanding Staad Editor Input Input width Understanding Staad Editor			

	☐ Member incidences ☐ Finish ☐ Writing notes/ information in editor					
	Geometry Verification					
	☐ Tools Menu					
	Opphan Nodes					
	Dyplicates Nodes/ Members					
	Qyerlapping Collinear					
	Members					
	Unit Convertor					
	Calculator					
	Member Specifications					
	☐ Member Release					
Day	☐ Member Offset					
Day 18	Introduction to RCC Design As per IS 456 Defining Various RCC Design					
	Parameters					
	☐ Beam Design					
	☐ Column Design					
	☐ RCC Detailing Methods					
Day 19	WindLoad Design As per IS 875 III					
-,	☐ Introduction to wind design☐ Design factors and Coefficient					
Day	Calculation of Wind load as per IS 875 Part 3					
20	☐ Create Wind definition					
	☐ Primary Load Case for Wind load ☐ Load combinations					
Day						
21	Seismic Analysis & Design as per IS-1893 Introduction					
	☐ Terminologies					
	O Standards for					
	EarthquakeDesign					
	O General Principals for					
Day	EarthquakeDesign					
22	Seismic Analysis & Design as per IS-1893					
	☐ Static Analysis Method					
	Seismic Definition ,Seismic Parameters					
	Elementary Introduction –					
	A. IS Code 1893(2002/2005)					

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	B. IS Code 13920					
Day	STEEL Design inSTAAD Pro As Per IS-800					
23	☐ Steel Design Mode					
	O Load Envelopes					
	O Member Setup O Member Restraints					
	O Design Briefs					
	Design Groups					
Day 24	\square Interactive SteelDesign					
	☐ Introduction Of Transmission Line					
	☐ Towers Design of Transmission LineTowers					
Day	-					
Day 25	FEM Modelling inSTAAD.Pro FEM Modelling introduction					
23	_					
	O SnapPlate					
	O AddPlate Create InfillPlates					
	O Create Infiltrates Create surfaces					
	0					
	O Generate SurfaceMeshing Generate PlateMesh					
	O Generale Flatemesh					
	☐ Adding PlateThickness					
	☐ PlateLoad					
	O Pressure on FullPlate					
	O ConcentratedLoad					
	O Partial Plate PressureLoad					
	Tranazoidall oad					
	Hydrostaticl oad					
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Day	Water Tank Design					
26	\square Creating a RCC underground					
	rectangular tank using plates					
	O Tank empty O Tank Full					
Day	- Creating circular water tank					
27	Shear Wall Design					
	☐ Introduction to Shear wall					
	Shear wall Modeling andDesign					
Day 28	Moving (Rolling) Loads					
	\square Vehicle definition					
	☐ Primary load case for moving load					
	☐ Analysis of a RCC deck slab for moving					

	load Viewing Influence line Diagram				
Day 29-	Foundation Design				
30		Introduction to structural foundation Importing files from Staad Pro to Staad Foundation			
		I. Isolated Footing design			
		0	Basic of Isolated Footing		
		0	Creating a Isolated Footing job		
		0	Specification of design parameters		
		0	Design result		
	II. Combined Footing Design				
		0	Basic of combined Footing		
		0	Creating a Combined Footing job		
		0	Specification of design parameters		
		0	Design result		
Day 30- 35		FINAL PROJECT			

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