

STAAD.Pro (60Hrs) 30Days

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of Day	
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Day a for in the last in the	
1 Overview of Structural Analysis and Design	
Introduction STAAD.Provoi	
Staad Pro Workspace	
Staad Pro Interface	
A. Menu bar	
B. Toolbar	
C. Mode Bar	
D. Page Control	
E. Datasheet	
Day • Co-ordinateSystems	
 Global Co-ordinate 	
 Local Co-ordinate 	
• Units	
o Input Unit	
 Graphical Display Unit 	
Dimensions	
Day - Labels	
 Node Labels 	
 Beam Labels 	
 Supports Labels 	
Tools	
• Rotation Tools	
o Zoom Tools	
• View Tools	
Day Geometry creation Methods	
4 O Snap /Grid Method	
○ A. Linear Grid	
o B. Radial Grid	
 Copy Cut Method 	
Day Geometry creation Methods	
 Run Structure Wizard 	
 Co-ordinate Method 	
DXF Method/ Import CAD Models	
Day • InsertNode	
6 o For a SingleMember	
 For MultipleMembers 	
AddBeam	
 Point toPoint 	
 BetweenMidpoints 	

	• PerpendicularIntersection
	o CurvedMember
Day 7	 Model EditingTools
	 TranslationalRepeat
	 CircularRepeat
Day	Model EditingTools
8	 Move
	o Mirror
	 Rotate
	о Сору
Day	Model EditingTools
9	 Connect BeamsAlong
	 Stretch Selected Members
	 Intersect SelectedMembers
	 Create Collinear Bea
Day	
10	Model Editing roois Merge Selected Members
	Break Beams at SelectedNodes
Day	Section Properties
11	o Circular
	o Tee
	 Trapezoidal
	 Tapered
	Section Database
	Assignment Method
	User table Beta Angle
Day	Structure Diagrams
12	• Full Section
	 Section Outlines
	Cut Sections/Plane
	 Range By Joint
	 Range By Min/Max
_	Select to View
Day 13	Supports Assignment
61	Introduction of structural
	supports
	• Fixed Support
	 Pinned Support
	O Enforced



	• Enforced But
	Assignment Methods
Dav	Member Offset
14	Loading
•	NodalLoad
	Nodal Moment
	MemberLoad
	• Uniform Force and Moment
	andMoment
	 Linear VaryingLoad
	 TrapezoidalLoad
	o HydrostaticLoad
	AreaLoad EloorLoad
Day	Understanding & Calculating Building Loads
15	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	Introduction to Floor load &
10	Live load as per IS 875-I & II
	Creation of Primary Load
	Cases
	 Primary Dead Load
	case
	 Primary Live Load
	case
	Load Combinations
	o Manual
	Combination
	Method
	O AUTO LOAD
	Combination
	Method
	Analysis & rint Command Post Processing
	rost riocessing
	O Result setup
	O INOUE FEACTION &

	(60Hrs) 30Days
Day	Understanding Staad Editor
17	Job Information
	Input width
	Join Coordinates
	Member incidences
	• Finish
	Writing notes/ information in
	editor
	Geometry Verification
	Tools Menu
	 Orphan Nodes
	 Duplicates Nodes/
	Members
	 Overlapping Collinear
	Members
	Calculator
	Member Specifications
	Member Release
	Member Offset
Day	Introduction to RCC Design As per IS 456
10	Defining Various RCC Design
	Parameters
	Beam Design
	Column Design
Dav	KCC Detailing Methods
19	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	Seismic Analysis & Design as per IS-1893
21	Introduction
	Terminologies
	 Standards for
	EarthquakeDesign
	 General Principals for
Dav	EarthquakeDesign
22	Seismic Analysis & Design as per IS-1893
	Static Analysis Method
	Seismic Definition ,Seismic
	60HRS (30DAYS)

STAAD.Pro



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	Parameters
	Elementary Introduction –
	A. IS Code 1893(2002/2005)
	B. IS Code 13920
Dav	STEEL Design in STAAD Pro As Per IS-800
23	Steel Design Mode
	 Load Envelopes
	• Member Setup
	 Member Restraints
	 Design Briefs
	Design Groups
Day	
24	Interactive SteelDesign
	 Introduction Of Transmission Line
	Towers
	 Design of Transmission LineTowers
Day	FEM Modelling inSTAAD.Pro
25	 FEM Modelling introduction
	○ SnapPlate
	o Create InfiliPlates
	 Create surfaces
	 Generate SurfaceMeshing
	 Generate PlateMesh
	 Adding PlateThickness
	PlateLoad
	 Pressure on FullPlate
	 ConcentratedLoad
	 Partial Plate PressureLoad
	 TrapezoidalLoad
	 HydrostaticLoad
Day	Water Tank Design
26	 Creating a RCC underground
	rectangular tank using plates
	 Tank empty
	• Tank Full
_	Creating circular water tank
Day 27	Shear Wall Design
	Introduction to Shear wall
	Shear wall Modeling and Design
Day 28	Moving (Rolling) Loads
	Vehicle definition
	 Primary load case for moving load

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