DAYS	Title	Contents
DAY 1	Introduction to Structural Engineering	➢ Structure, types of structures ➢ basic definitions ➢ Idealization of structures
DAY2	About STAAD.Pro	➢ Features, hardware requirements ➢ STAAD.Pro screen organization
DAY3	About STAAD.Pro	➢ GUI overview, Unit systems ➢ Structure geometry and Coordinate systems (Global and Local)
DAY4	Model Generation	➢ Concept of Pre Processor ➢ Analysis Engine ➢ Post Processor ➢ Creating a new file ➢ creating nodes
DAY5	Model Generation	➢ Adding beam, plate, solid, enhanced grid tool (linear, radial, irregular), Geometry beam page
DAY 6	Select Menu	➢ By All, By Inverse ➢ By list ➢ By specification ➢ By missing attributes
DAY 7	Model Editing Tools	➢ Translational Repeat ➢ Circular Repeat ➢ Mirror, Rotate
DAY 8	Model Editing Tools	➢ Connect Beams Along ➢ Stretch Selected Members ➢ Intersect Selected Members ➢ Merge Selected Members
DAY 9	Geometry Operations	➢ Insert Node: In existing member ➢ adding beams ➢ selecting members Renumbering,
DAY 10	Geometry Operations	➢ For a Single Member ➢ For Multiple Members o Add Beam ➢ Point to Point ➢ Between Midpoints ➢ Perpendicular Intersection ➢ Curved Member
DAY 11	Geometry Operations	➢ How to create Beam /Column & Curved Beams ➢ Add Mid points ➢ Add Perpendicular intersection beam
DAY 12	Commands	➢ Support Specification ➢ Member Property Specification ➢ Member Offset ➢ Material Specification ➢ Group Specification
DAY 13	Commands	➢ Release ➢ Offset ➢ Truss Only ➢ Tension Only

		➤ Compression Only
DAY 14	Material Specifications	➤ Material Table ➤ Modulus of elasticity ➤ weight density ratio ➤ poisson's ratio
DAY 15	Material Specifications	➤ Co-efficient of thermal expansion, damping ratio; Member Offset
DAY 16	Load Cases	➤ Primary Load menu, Load commands, Self weight, Nodal load
DAY 17	Load Cases	➤ Member load- concentrated force or moment, linear varying, trapezoidal, hydrostatic
Day 17	Analysis	➤ Perform analysis, run analysis
DAY 18	Loading	➤ Area load, floor load, wind load, load combinations, seismic definitions
DAY 19	Analysis of a structure	➤ Perform analysis, run analysis, pre analysis print, post analysis print
DAY 20	Concrete Design	➤ Beam design, column design, design parameters-selection
DAY21	Concrete Design	➤ Defining parameters, assigning, end concrete design
DAY 22	Modelling Plates in STAAD.Pro	➤ Geometry- adding plate, create infill plates, generate surface meshing, generate plate mesh, plate thickness
DAY 23	Loading	➤ Pressure on full plate, concentrated load, partial pressure on plate load
DAY 24	Staircase design	➤ Common terminologies, modelling and design procedure
DAY 25	Shear Wall Modelling and Design	➤ Adding surface, Commands; Surface thickness, surface load, design parameters
DAY 26	Load Cases	➤ Member load- concentrated force or moment, linear varying, trapezoidal, hydrostatic
DAY 27	Analysis	➤ Perform analysis, run analysis
DAY 28	Analysis of a structure	➤ Perform analysis, run analysis, pre analysis print, post analysis print
DAY 29	Steel Design	➤ Beam design, column design, design parameters-selection
DAY 30	Steel Design	➤ Defining parameters, assigning, Steel design