

Techno India NJR Institute of Technology

(Department of Civil Engineering), Session 2021-22

Schedule of the course: STAAD Pro

Day	Brief details	Contents
		Overall approach to the software - Introduction
1	Getting started	Overview of the STAAD.Pro environment, Keyboard shortcuts, Documentation, Member local and global axis, etc
2	Modelling	Creating model objects, Properties and specifications, Supports, etc.
3	Overview of the IS Codes	IS 875 (Part 1 & 2) – For calculation of Dead load and Live load – Application of load in STAAD.Pro
4	Overview of the IS Codes	IS 875 (Part 1 & 2) – For calculation of Dead load and Live load – Application of load in STAAD.Pro
5	Overview of the IS Codes	IS 875 (Part 3): 2015 – For wind force estimation for low rise and tall structures – Application of load in STAAD.Pro
6	Overview of the IS Codes	IS 875 (Part 3): 2015 – For wind force estimation for low rise and tall structures – Application of load in STAAD.Pro
7	Overview of the IS Codes	Overview of the IS Codes: Limit state design as per IS 800:2007 – part 2 – Features available in STAAD.Pro
8	Loads	Load application for Dead load, Live load, Wind load, Seismic load, etc., Create load list, load combinations, etc. in STAAD.Pro

9	Analysis & Interpretation of results	Types of analysis, Pre-analysis commands, To check for soft stories and seismic code irregularities, etc. Statics check, deflected shape, mode shapes, etc.
11	Design	Concrete design in STAAD.Pro – Understanding of each design parameter and its impact on the design
12	Project	Analysis and Design Ground plus one story residential building
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14	Report	Documents preparation for project

For Techno India NJR Institute of Technology
 पंकज पोरवाल
 Dr. Pankaj Kumar Porwal
 (Principal)

Dr. Pankaj Porwal

Principal and Head,

Department of Civil Engineering and Mechanical Engineering

CC:1. The Director

2. The Principal

3. CE Dept. File

4. CE student notice boards