



KLEIOS[®]
TECHNOLOGIES
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STAAD PRO TRAINING
COURSE SYLLABUS

KLEIOS TECHNOLOGIES[®]

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COURSE SYLLABUS

S.No	Topics
1	Introduction to Design Concepts <ul style="list-style-type: none">• Overview of structural design & analysis• Stresses & strains• Shear force & bending moment• Introduction to types of structures
2	Introduction to STAAD.Pro <ul style="list-style-type: none">• Starting STAAD.Pro• Graphical user interface• Starting a new project• STAAD.Pro screen information• Co-ordinate systems
3	Structural modelling <ul style="list-style-type: none">• Creating nodes, beams, plates, surfaces.• Creating structure• Renumbering nodes, members and elements• Splitting beams• Merging members & nodes
4	Details of materials and its properties <ul style="list-style-type: none">• Material constants• Creating and editing material properties• Section properties
5	Member specification <ul style="list-style-type: none">• Release• Offset• Property reduction factors• Cable• Truss• Inactive members

6	Support specification <ul style="list-style-type: none">• Fixed• Pinned• Fixed but• Spring
7	Loading details <ul style="list-style-type: none">• Load specification• Self-load specification• Member load specification• Floor load• Area load• Load combination
8	Analysis <ul style="list-style-type: none">• Analysis specification• Load list specification• Report Generation
9	Post processing <ul style="list-style-type: none">• Load lists• Node displacements• Node reaction• Beam forces• Beam stresses• Beam graphs• Animations• Report
10	RC Design <ul style="list-style-type: none">• Concrete Design As per IS 456• Design of Beams• Design of Columns• Concrete Design Specifications

	<ul style="list-style-type: none">• Concrete Design Parameter Specification• Concrete Design Command• Concrete Take of• Concrete Design Terminator• Interactive Design
11	Steel Design <ul style="list-style-type: none">• Steel Design As per IS 800• Allowable Stresses• Parameter Specifications• Code Checking Specifications• Member Selection Specifications• Tabulated Results of Steel Design• Interactive Designs
12	Analysis case studies and workshops <ul style="list-style-type: none">• RCC design and analysis• Steel design and analysis• Practical examples