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STRUCTURAL ANALYSIS AND DESIGN using
STAAD.Pro

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Sharm El-Sheikh (Egypt)

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STAAD Pro is widely used software for structural analysis and design from Research Engineers International. STAAD Pro is the only Structural Analysis and Design software whose maker meets the rigid requirements of ISO 9001 certification. Development, maintenance, and support are all based upon the highest quality standards. It is one of the best civil and structural engineering software so far concern.

THE CURRICULUM

STAAD Pro is designed for engineers, by engineers who understand the process of modeling, analyzing and designing a structure. STAAD Pro features a state-of-the-art user interface, visualization tools, powerful analysis and design engines with advanced finite element and dynamic analysis capabilities. From model generation, analysis and design to visualization and result verification, STAAD Pro is the professional's choice for steel, concrete, timber, aluminum and cold-formed steel structures. The versatility of STAAD Pro makes it the choice of most leading engineering consultancies whilst the entry-level version means that it is also the choice for smaller consultants as well.

SYLLABUS

- STAAD Pro concepts

- Generating the model geometry

- Specifying member properties

- Specifying material constants

- Specifying member specifications

- Specifying supports.

- Defining and Specifying Loads

- Analysis types, Post analysis print

- Concrete Design Parameters

- Concrete Design per IS:456

- Steel Design Parameters

- Steel Design per IS:800

- Printing information to output files

- Perform analysis, View output file, Graphical post processing,

- Diagrams, Results

- Creating customized reports

- Printing of reports

- Interactive designs