



Course Description and Outlines

PROKON

Structural Designing



Course Description

PROKON is developed and supported by a team of professional engineers and intended for use by practicing structural engineers. The software provides quick and reliable answers to everyday structural engineering problems. The first PROKON programs were developed in 1989, and today PROKON is used worldwide in over 80 countries.

Course Target

By the end of this course you'll learn about Modeling, Concrete and Steel Frame Design & Detailing, Steel Connection Design, Composite Beam and Dynamic Analysis. Once you have completed the course, you will be able to model, analyze and design the structural elements of any building. The course enhances civil engineers opportunities to work in the field of structural design.

Course Duration

10 Days

Features of the Course

- Course is designed for practicing Civil Engineers (to both Construction Engineers as well as to Structural Design Engineers).
- Lectures shall be conducted by practicing structural design engineers.
- Printed notes shall be given to all participants.
- Small groups with individual attention.
- Participation certifications shall be awarded after successful completion of the course.



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Course Outline

Analysis of 2D frames

Analysis of 3D frames

Design of reinforced concrete beams – simply supported and continuous beams

Design of post-tensioned beams

Design of reinforced concrete slabs

Design of reinforced concrete columns

Design of reinforced concrete walls

Design of reinforced concrete shallow foundations

Design of structural steel columns

Design of steel beams

Design of crane beams

Design of plate girders

Design of base plates

Design of steel connections

Punching shear design

Wind analysis for low-rise buildings – steel warehouses

Pile design

Design of beam on elastic foundations

Crack width analysis



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