

## Bridge Engineering - Video course

### COURSE OUTLINE

The first course in Bridge engineering generally introduces the fundamental concepts, principles and application of superstructure and substructure analysis and design for the undergraduate students of civil engineering.

This course "Bridge Engineering" goes deeper into the various aspects of Bridge engineering along with bringing out the advanced theories and practical knowledge of Bridge engineering.

Each topic will be developed in logical progression with up-to-date information with reference to codal provisions and journals.

The topics cover overall analysis of Bridge engineering including analysis of super-structure, sub-structure, foundation, geotechnical properties, hydrological properties along with details of other bridge components on RC and Pre-stressed Concrete structures.

The advanced course material on bridge engineering will be very useful to undergraduate students, post-graduate students, teachers and practitioners.

A number of chosen problems will be solved to illustrate the concepts clearly.

#### Contents:

Introduction and selection of type of bridges, loads and forces, Grillage analogy, Theories of lateral load distribution and design of superstructure.

Abutments, piers and their foundations. Bearings, Expansion joints.

### COURSE DETAIL

Sl. No.	Topic	No. of Hours
1	<b>Introduction:</b> <ul style="list-style-type: none"> <li>• History of Bridges; Components of a Bridge and its definitions.</li> <li>• Classification of Road Bridges, related structures, span length.</li> <li>• Classical Examples of each type; People involved in the total process; History of Analysis; Approach of this book.</li> </ul>	3
2	<b>Selection of Site and Initial Decision Process:</b> <ul style="list-style-type: none"> <li>• Survey and Alignment; Geotechnical Investigations and Interpretations.</li> </ul> <b>River Bridge:</b> <ul style="list-style-type: none"> <li>• Selection of Bridge site and planning; Collection of Bridge design data; Hydrological calculation.</li> </ul>	3



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## Civil Engineering

#### Pre-requisites:

1. Structural Analysis.
2. Reinforced Concrete.
3. Pre-stressed Concrete.

#### Additional Reading:

1. Indian Road Congress codes.
2. Indian Highway Journals.
3. BS Codes.
4. AASHTO Codes.

#### Coordinators:

**Dr. Supratic Gupta**  
Department of Civil Engineering@T  
Delhi

# Nptel Notes Civil Engineering

**M Tight**



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