

IES exam Syllabus for Civil Engineers

CIVIL ENGINEERING PAPER-I

(Common to both objective and conventional type papers)

1. BUILDING MATERIALS

Timber : Different types and species of structural timber, density-moisture relationship, strength in different directions, defects, influence of defects on permissible stress, preservation, dry and wet rots, codal provisions for design, Plywood.

Bricks : Types, Indian Standard classification, absorption, saturation factor, strength in masonry, influence of mortar strength on masonry strength.

Cement : Compounds of different types, setting times, strength.

Cement Mortar : Ingredients, proportions, water demand, mortars for plastering and masonry.

Concrete : Importance of W/C Ratio, Strength, ingredients including admixtures, workability, testing for strength, elasticity, non-destructive testing, mix design methods.

2. SOLID MECHANICS

Elastic constants, stress, plane stress, Mohr's circle of stress, strains, plane strain, Mohr's circle of strain, combined stress, Elastic theories of failure, Simple bending, shear, Torsion of circular and rectangular sections and simple members.

3. STRUCTURAL ANALYSIS

Analysis of determinate structures - different methods including graphical methods.

Analysis of indeterminate skeletal frames - moment distribution, slope-deflection, stiffness and force methods, energy methods, Muller-Breslau principle and application.

Plastic analysis of indeterminate beams and simple frames - shape factors.

4. DESIGN OF STEEL STRUCTURES

Principles of working stress method. Design of connections, simple members, Built-up sections and frames, Design of industrial roofs. Principles of ultimate load design. Design of simple members and frames.

5. DESIGN OF CONCRETE AND MASONRY STRUCTURES

Limit state design for bending, shear, axial compression and combined forces. Codal provisions for slabs, beams, walls and footings. Working stress method of design of R.C. members.

Principles of prestressed concrete design, materials, methods of prestressing, losses. Design of simple members and determinate structures. Introductions to prestressing of indeterminate structures.

Design of brick masonry as per I.S. Codes.

Ies Syllabus For Civil Engineering 2012

L Reisser



Ies Syllabus For Civil Engineering 2012:

The book delves into Ies Syllabus For Civil Engineering 2012. Ies Syllabus For Civil Engineering 2012 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ies Syllabus For Civil Engineering 2012, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ies Syllabus For Civil Engineering 2012
 - Chapter 2: Essential Elements of Ies Syllabus For Civil Engineering 2012
 - Chapter 3: Ies Syllabus For Civil Engineering 2012 in Everyday Life
 - Chapter 4: Ies Syllabus For Civil Engineering 2012 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Ies Syllabus For Civil Engineering 2012. This chapter will explore what Ies Syllabus For Civil Engineering 2012 is, why Ies Syllabus For Civil Engineering 2012 is vital, and how to effectively learn about Ies Syllabus For Civil Engineering 2012.
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4. In chapter 3, this book will examine the practical applications of Ies Syllabus For Civil Engineering 2012 in daily life. The third chapter will showcase real-world examples of how Ies Syllabus For Civil Engineering 2012 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Ies Syllabus For Civil Engineering 2012 in specific contexts. This chapter will explore how Ies Syllabus For Civil Engineering 2012 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Ies Syllabus For Civil Engineering 2012. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ies Syllabus For Civil Engineering 2012.

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