

Architectural Assistantship Department
Session 2024-25 (2nd Semester)

Subject: Structure Systems-II

Load: Theory -03

Date	Topics/ Activities	Details	Learning Outcome
20.01.2025	Concept of RCC	Definition, importance, and applications of RCC.	Understand the fundamental concept and
22.01.2025	Reinforcement Materials	Properties and suitability of steel as a reinforcing material.	Identify and analyze the properties of mild steel and HYSD/TMT steel as
27.01.2025	Introduction to Foundations	Overview of foundation types and their functions.	Understand the purpose and basic principles of foundations in structural
29.01.2025	Shallow Foundations	Types and characteristics of shallow foundations.	Differentiate between shallow foundation types and their applications.
03.02.2025	Deep Foundations	Types and characteristics of deep foundations.	Understand the uses and importance of deep
05.02.2025	Foundation Design Principles	Key considerations in foundation design.	Apply the basic principles of foundation design to practical scenarios.
10.02.2025	Introduction to Columns	Definition, types, and functions of columns in structures.	Identify different types of columns and their roles in load transfer.
12.02.2025	Axially Loaded Columns	Design principles for axially loaded columns.	Learn to design columns to withstand axial loads
17.02.2025 – 21.02.2025	First Sessional Examination	Covers Unit I and Unit II.	Evaluate understanding of RCC basics and foundation
24.02.2025	Columns Based on Loading and Support Conditions	Understanding columns under different loading and support conditions.	Analyze structural behavior of columns under various load and support scenarios.
26.02.2025	Design Considerations for Columns	Factors affecting column design under axial loads.	Apply design principles for efficient column structures.
03.03.2025	Introduction to Beams	Role of beams in load distribution and types of beams.	Understand the significance of beams in RCC structures.
05.03.2025	Flexural Analysis of Beams	Methods for flexural analysis of beams.	Perform flexural analysis to assess beam strength and behavior.
10.03.2025	Principles of RCC Beam Design	Fundamental principles for designing reinforced concrete beams.	Apply design principles to create structurally sound RCC beams.
12.03.2025	Introduction to Slabs	Types of slabs and their structural roles.	Differentiate between one-way and two-way slabs and
17.03.2025 – 21.03.2025	Second Sessional Examination	Covers Unit III and part of Unit IV.	Assess understanding of columns and beams in RCC structures.

24.03.2025	One-Way Slab	Design principles and applications of one-way slabs.	Understand and apply design concepts for one-way slabs.
26.03.2025	Two-Way Slab	Design principles and applications of two-way slabs.	Understand and apply design concepts for two-way slabs.
31.03.2025	Principles of Slab Design	Key considerations for designing slabs.	Integrate slab design principles for RCC
02.04.2025	Revision and Practice	Review and solve numerical problems from	Reinforce concepts and prepare for final
07.04.2025	Case Studies and Mock Tests	Real-life examples and practice tests.	Analyze practical applications of RCC design in construction.
09.04.2025	Final Revision	Open discussion and doubt resolution.	Clarify doubts and solidify preparation for the final
21.04.2025 – 24.04.2025	Third Sessional Examination	Covers Unit IV and Unit V.	Evaluate overall understanding of RCC structure systems.

Nadia
Subject Incharge

Reena Kapoor
HOD, Architecture