

L J School of Architecture

Syllabus for B.Arch. 2019-20

Second Year | Semester 3

Subject Code: 303|Subject: Structure III | Credit: 02

Course Content:

- Design concept of limit state method.
- Design of Beams: Singly and Doubly reinforced beam,
- Design of Slab: One Way slab, Two Way slab, One Way and two way Continuous slab (based on studio drawings)
- Design of Column: Axially Loaded (only),
- Design of Isolated footing (Only axial loaded) other types of footing drawing.
- Design of stair case (Waist slab type) (based on studio drawings)

Methodology:

- Lectures, Site Visits, case-studies, presentation, group work.

Reference:

1. Theory of Structures by S. Ramamrutham
2. Structure & Architecture by Angus J Macdonald
3. Salvadori's Structure in Architecture by Robert A. Heller
4. Structure as Architecture: A source book for architects and structural engineers by Andrew Charleston