

# L J School of Architecture

Syllabus for B.Arch. 2019-20

Second Year | Semester 4

Subject Code: 403|Subject: Structure IV | Credit: 02

## Course Content:

- 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. Strength of Material, RK Bansal, Laxmi Publications, New Delhi
2. Application Mechanics and Strength of Materials, IB Prasad, Khanna Publications, New Delhi
3. Engineering Mechanics, statics & Dynamics, Desai & Mistry, Mac Millan Publishing Co
4. Vector mechanics for engineers- statics, Bear & Johnston, Mcgrawhill
5. Applied Mechanics, Junarkar & H.J. Shah, Charotar Publishing House Seeking structure from nature, Jeffery Cook, BirkHauser