

L J School of Architecture

Syllabus for B.Arch. 2019

First Year | Semester 1

Subject Code: 106|Subject: Structure I | Credit: 02

Course Content:

- Importance of Structure design in Architecture.
- Understand the basic structural systems.
- Study the technical vocabulary and functions of various structural components from foundation to roof.
- Primary elements of structure and their behavior (Load bearing, framed and tensile)

Methodology:

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

Reference:

1. Ramamrutham, S., Theory of Structures, Delhi, Dhanpat Rai & Sons, 2013
2. Seward, Derek, Understanding structures: analysis materials design, London, Palgrave, 2014
3. Ambrose, James E. Building Structures. New York: Wiley, 1988
4. Forsyth, Michael. Structures & Construction in Historic Building Conservation. Oxford, UK:Blackwell, 2007.
5. Cowan, Henry J. Architectural Structures: An Introduction to Structural Mechanics. New York: Elsevier, 1976.