

L J School of Architecture

Syllabus for B.Arch. 2019-20

First Year | Semester 2

Subject Code: 203 | Subject: Building Construction & Technology II | Credit: 04

Course Content:

- Exploration of all the building elements – from foundation to parapet
- Concern with appropriateness of materials to context
- Introduction to the Load bearing system of construction (Brick & Stone masonry)
- Understanding the Building Elements: 1. Foundations – Types of foundation
2. Arches
3. Lintels and Weather sheds
4. Doors & Windows
5. Staircases.
- Building Materials may include – Cement, Concrete, Metal, Glass, Timber, etc.

Methodology:

- Lectures, Studios, drafting, case-studies, sketching, Site visit, Model making, presentation, group work.

Reference:

1. Ash, Ahmed. Materials science in construction: an introduction. London: Taylor & Francis, 2015
2. Agrawal, B. K.. Introduction to Engineering Materials. New Delhi: Tata McGraw Hill Education Ltd.,2013.
3. Bhavikatti, S. S.. Materials of Construction Vol - 2. New Delhi: I. K. International Publishing House Pvt. Ltd., 2014
4. Charleson, Andrew. Structure as architecture: Source book for architects and structural engineers .London: Taylor & Francis, 2015
5. Gambhir, M. L.. Building Materials: Products, Properties and Systems. New Delhi: Tata McGraw Hill Education Private Limited, 2011
6. Khurmi, R. S.. Strength of Materials: Mechanics of Solids. New Delhi: S. Chand & Company Ltd.,201