

L J School of Architecture

Syllabus for B.Arch. 2019-20

Second Year | Semester 4

Subject Code: 402 | Subject: Building Construction & Technology IV | Credit: 04

Course Content:

- Introduction to fundamental of RCC construction
- Hollow walls: Cavity walls in bricks and Hollow concrete blocks.
- To understand the maintenance, quality assessment, repair and additions alteration required in buildings.
- Temporary support systems required during the construction stage, repair works and modifications in buildings
- Formwork, scaffolding, shoring and strutting for the building
- Different kind of joints required in buildings
- Building Services: Electrical

Methodology:

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

Reference:

1. National Building Code for India. Bureau of Indian Standards, Latest Edition
2. Engineering Materials, Rangwala S.C, Charotar Publishing House
3. Building Construction, Punmia B.C., Laxmi Publishing
4. Building Construction, Arora, S.P., Bindra, Dhanpat Rai publications
5. Building Construction, Mackey W.B, Orient Longman
6. Fundamentals of Building Construction, Allen Edward, John Wiley & Sons Inc, Somerset, New Jersey, U.S.A., 1998
7. Electrical Wiring Estimating & Costing, S. L. Uppal (Khanna Publications), New Delhi
8. F. Hall, Building Services and Equipment, Volume 1, 2, 3, Routledge, 3rd Edition, 1994
9. Mark Karlen, James R. Benya, Christina Spangler, "Lighting Design Basics, John Wiley & Sons, 2012