

Project

This is culmination of undergraduate studies and hence shall display the capability of the candidate to conceive / formulate a design project with complexity and provide solution, aptly demonstrated through supporting research. The major area of study and research can include advanced architectural understanding, including contemporary design processes, urban design, urban-infill, environmental design, conservation and heritage precincts, housing etc. However, the specific thrust should be architectural design of built environment. Understanding of structural systems, specialized details, universal design considerations, services, fire safety as integral part of the proposal. Preparation of presentation drawings, construction details and schematic layout of services with study model are part of the requirements for submission.

Project shall be effectively demonstrated through drawings, models, walk-through etc. along with project report.

Seminar and Research

Seminar are intended to develop the capacity of the students to work either in group or individually undertaking research in a given subject relating to architecture and presenting his observation graphically and through a seminar presented in different stages. This is to equip the students finally with a skill to sale his project efficiently and effectively. Guidelines can be as mentioned below.

Seminar I: Subject shall be allotted to group of students from the below mentioned broad categories.

1. History of Architecture / Interior Design.
2. Appreciation / Critical a appraisal of Architectural projects.
3. Research in Architecture.
4. Role of allied / applied science in architecture.
5. Building byelaws and legislation.

Seminar II: This seminar shall be presented by an individual student on the subject relating to architectural understanding of doctrine and work of great Master of Architecture. Review of publications on architecture by eminent authors, Individual project reviews etc.

Marks shall be granted on the basis of documentation / Seminar presentation contents etc.

Professional Practice II

Unit I: Tender, types of tender, tender document, tender notice, procedure for opening and selection of tender, analysis bids, comparative statement, report to owner, work order.

Unit II: Contract, type of contract, contract document. Detailed knowledge of various condition of contract as published by Indian Institute of Architects with special reference to responsibilities and liabilities of architect, contractor and the client.

Unit III: Arbitration, arbitration Proceeding and award, provision of fire insurance policy, architects responsibility towards fire loss assessment and claim report.

Unit IV: Easements rights, acquisition of such rights, remedies for interference and loss of easement, Dilapidation, procedure for preparing report and schedule of dilapidation, settlement of such claims.

Unit V: General information and introduction to various acts and laws such as land acquisition Act., urban land ceiling Act. Building bye-laws, Sale deed procedure, ownership documents.

Sessional Work: Notes, Tutorials & report writing on above topics.

Reference Books:

- Professional Practice by Roshan Namavati.
- COA Handbook of Professional Documents.
- Architectural Practice and Procedure by Ar. V. S. Apte.
- Architectural Practice in India by Prof. Madhav Deobhakta and Ar. Meera Deobhakta.

Project Management & BIM

Objectives: To understand the fundamentals of management and its applications in architectural practice, To understand the complexities & challenges of constructability of design is primary focus to learn this subject for students of architecture. To make students of architecture aware about the practical ground realities of construction and maintain the harmony between the design and its construction phase.

Unit I: Historical review of large construction projects and management techniques. Fundamentals of project management, SWOT analysis of project. Stages of project management.

Unit II: Preparation of project proposals (DPR), Different financial models of projects (BOT, PPP, SPV), Role of money lending institutions, Tendering & bidding process.

Unit III: Schedule of construction project, Study of bar charts, milestone charts, Fundamentals of CPM (Critical Path Method), PERT (Project Evaluation and Review Technique).

Unit IV: Management of construction activities at site, Study of Construction Machinery, Equipments and tools.

Unit V: Construction site practices for quality control and HSE practices.

Unit VI: Introduction about BIM (Building Information Modeling), its benefits and application in construction project. Various software available for BIM.

References:

- Callahan, M. T., Quackenbush, D. G., & Rowings, J. E. (1992). Construction Project Scheduling. McGraw-Hill.
- Chitkara, K. K. (2004). Construction Project Management: Planning, Scheduling and Controlling. Tata McGraw–Hill Education.
- Punmia, B. C., and Khandelwal, K. K. (2006). Project planning and control with PERT and CPM. New Delhi: Laxmi Publications.
- Wiest, J. D., and Levy, F. K. (1982). A Management Guide to PERT/CPM. New Delhi: Prentice Hall of India.

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Valuation

Objectives: The aim of this subject is to introduce the students to **Valuation** as a profession. The study shall include the topics as under.

Unit I: Aims and objectives of valuation in respect of Building and land.

Unit II: Essential Characteristics of value, regarding the building.

Unit III: Factors affecting the value of built up property-supply and demand, cost of reproduction, occupation of value. Gild edged Security.

Unit IV: Methods of valuation, such as rental method of valuation, land building basis, development method of valuation, valuation for rating purpose, valuation for Gov. Taxation, Valuation for mortgage.

Unit V: International Standards of Valuation, types of Assets, Recommendation for valuation of types of Assets.

Unit VI: Insolvency and Bankruptcy Code (IBC), Aims and Objectives of IBBI.

Sessional: Notes, exercise on the above topics. Study and preparation of valuation report.

Reference Books :

- Theory & Practice of Valuation by R. Namavati.
- Valuation of Real Property by S.C. Rangwala.
- Estimating, Costing and valuation by S.C. Rangwala.