UNIT - I

Stones and Bricks, Tiles: Building Stones - Classification and quarrying - properties - structural requirements - dressing Bricks - Composition of Brick earth - Manufacture and Structural requirements.


UNIT - II


UNIT - III

Building Components: Lintels Arches, walls, vaults, stair cases - types of floors - types of roofs - flat, curved, trussed; foundations - types; Damp Proof Course; Joinery - doors - windows - materials - types.

Building Services: Plumbing Services; Water Distribution, Stationery - Lines & Fitting; Ventilations: Functional requirements systems of ventilations. Air-conditioning - Essentials and Types; Acoustics - characteristic - absorption - Acoustic design; Fire protection - Fire Hazards - Classification of fire resistant materials and constructions.

UNIT - IV

Masonry and Finishings: Brick Masonry - types - bonds; Stone masonry - types; Composite Masonry - Brick - Stone - composite; Concrete, Reinforced brick

Finishers: Plastering, Pointing, Painting, Claddings - Types - Tiles - ACP

Form work: Requirements - Standards - Scaffolding - Design; Shoring - Underpinning.

UNIT - V

Building Planning: Principles of Building Planning, Classification of buildings and Building by laws

TEXT BOOKS:

1. Building Materials and Construction - Arora and Bindra, Dhan Pat Roy Publications

REFERENCE:
2. Building Construction by PC Verghes PHI.
4. Basics of Civil Engg by Subash Chander; Jain Brothers.