

buttresses, arches and lintels.

Stone construction – Types of walls, bonds, arches and lintels

Foundation – Functions of foundations, types of foundations, simple load bearing foundations in brick and stone

Concrete Blocks – Hollow and solid, stabilised mud blocks.

Doors – Types of wooden Doors, i.e., Battened, ledged, braced, panelled, flush and glazed doors. Study of joinery details.

Windows – Types of wooden glazed windows, study of joinery details.

Materials –

Introduction to Material Science.

Bricks and Tiles – Types, properties, uses and manufacturing methods.

Stones – Types, properties and uses, quarrying

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Sand – Availability, properties

Aggregate – Sources and types

Timber – Quality of timber used in buildings, defects, seasoning and preservation of timber.
Types – Natural, hard and softwood.

Introduction to types, properties, uses and application of non-ferrous metals.

Note – Minimum one plate on each topic, site visits to be arranged by studio teacher. Study of material application in the form of portfolio. All the plates on construction and portfolio on material application shall be presented for term work.

REFERENCES:

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1. "Building Construction" by W.B. Mackay
2. "Construction Technology" by Chudley
3. "Construction of Buildings" by Barry