

AMID16 ADVANCED MATERIALS AND APPLICATIONS

UNIT-1 ROOFING AND FLOORING

- 1.1 Roofing tiles and asbestos cement products, sheets and fiber boards- properties, uses and application.
- 1.2 Various natural as well as artificial flooring materials like vitrified tiles, ceramic tiles,
- 1.3 Shahabad stones, Mosaic, Rubber, Linoleum, PVC and PVA flooring. .
- 1.4 Properties, other uses and applications in the interiors.

UNIT -II METALS

- 2.1 Steel, iron, aluminum, bronze, brass, copper- alloys, characteristics, form and uses, properties, definition of terms, methods of working with metals, fixing and joinery in metals, finishing and treatment to metals.
- 2.2 Application of metals to build form and interiors- special doors and windows, ventilators-sliding, sliding and folding, revolving, pivoted, rolling, collapsible, dormer, skylights, clerestory etc.

UNIT-3 FABRICS AND OTHER FURNISHING MATERIALS

- 3.1 fibers, textiles, fabric treatments, carpets, durries, tapestries,
- 3.2 Drapery, upholstery, wall coverings, etc. properties, uses and application in the interiors.

UNIT-4 MISCELLANEOUS

- 4.1 Materials such as cork, leather, paper, Rexene etc. their properties, uses and applications in the interiors.
- 4.2 A brief overview of Green materials.

Reference Books:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.