

AMAR-08 BUILDING MATERIALS-II

UNIT-1 BRICKS

- 1.1 Classification of bricks including bricks substitutes like fly ash bricks, characteristics, ingredients of bricks
- 1.2 Manufacture of bricks- Forms of bricks
- 1.3 Testing of bricks- Storing- Lightweight bricks
- 1.4 Case studies and application. Light weight bricks.

UNIT-2 CLAY PRODUCTS

- 1.1 Manufacture of burnt clay bricks, paving bricks, hollow bricks
- 1.2 Terracotta, porcelain, stoneware, earthenware
- 1.3 Glazing and their uses
- 1.4 Glazed ceramic tiles, fully vitrified tiles,
- 1.5 Ceramic sanitary appliances, Stoneware pipes and fittings.
- 1.6 Roofing materials
- 1.7 Manufacture of Mangalore tiles, pot tiles, pan tiles
- 1.8 Case studies and application.

UNIT-3 TIMBER

- 1.1 Classification of trees, structure of trees,
- 1.2 Defects in timber, Storage of timber,
- 1.3 Uses of timber, characteristics, seasoning of timber,
- 1.4 Defects and diseases, Decay of timber, Preservation,
- 1.5 Fire resistance, Conservation of timber.

UNIT-4 TIMBER PRODUCTS

- 2.4 Market forms of timber, Industrial timber,
- 2.5 Veneers and Veneer Plywoods,
- 2.6 Particle board, Hard board, Fibre board,
- 2.7 Block board and Lamin boards, Laminates, advantages and Blockboard uses.

UNIT-5 PAINTING AND VARNISHING IN TIMBER

- 5.1 Composition, characteristics, preparation, Primer,
- 5.2 Painting different surfaces.
- 5.3 Enamels, Paint, Varnishing- types of varnishing
- 5.4 Miscellaneous paints, defects, uses and cost of materials.

References Books:

1. Varghese P.C., "Building Materials", Prentice Hall of India put Ltd, New Delhi 110001, 2005.
2. Spencke R.J. and Cook S.J., "Building materials in developing countries", John Wiley and sons 1983.