

Learning objectives:

- Learn about the types of shelter that people have constructed to protect themselves, their possessions, and their activities.
- Understand the choices involved in the construction of such buildings.
- Learn about the effects of climate, topography, and architectural style on types of building materials and housing costs.
- Learn about the changing functions of buildings and rooms within buildings.

Learning outcomes:

- Students will cultivate healthy, meaningful relationships with others.
- Students will contribute to the social, economic, or educational development of the campus and surrounding community.

THEORY

UNIT-I: HOUSING:

- Importance and functions of a house; Influence of housing on health and Family Living.
- Requirements for purchasing land for building a house - Selection of site, soil condition, locality, orientation, sanitary facilities, good neighborhood, legal characteristics etc.
- Principles of planning a house – aspect, prospect, privacy, flexibility, roominess, grouping, circulation, furniture requirements, sanitation, practical considerations.

UNIT- II: HOUSE PLANS:

- Planning of different rooms in the house – Veranda, living room, bed room, kitchen etc.
- Kitchen plans – Planning of efficient work centres, Kitchen Planning- L shape, U shape, single walled, corridor, peninsular shaped kitchens. Storage facilities in kitchen and other rooms.
- Advantages and disadvantages of owning and renting a house.

UNIT-III: BUILDING MATERIALS AND FLOORING MATERIALS

- Building Materials – Properties and uses of – a.) Metals – Iron, Steel, Aluminium, Copper, Lead; Gypsum & related products; b.) Non-Metals - Stone; Brick, Cement; Lime Mortar; Concrete; Timber; Plywood & related products; c.) Plastics & related products.
- B. Flooring – Factors in selection of flooring material and Types of flooring.
- C. Prefabrication – Importance, Elements; Laurie Baker Housing, Green Buildings – Concept and Importance.

UNIT-IV: BUILDING PROTECTION & RESEARCH ORGANIZATIONS

- Dampness & Fire Protection – Reasons/ Causes, Preventive and curative methods of dampness & fire accidents
- Types of Residential Buildings, Importance of Housing Standards – Functions, Floor Space Index, Setback, Zoning.
- NBO, NEERI, NBRI, APSHCL.

UNIT-V: HOUSEHOLD EQUIPMENT:

- Factors to be considered for the selection and purchase of household equipment.
 - Principle of operation and care of the following equipment -

- Small electrical appliances – mixers, toasters, beaters, iron etc.
- Large electrical appliances – Refrigerator, washing machine, vacuum cleaner, dish washer, electric range etc.
- Appropriate Technology for rural areas – hay box, low cost refrigerator, Biogas plant, solar cooker – construction, operation and advantages.
- Points to be considered while operating electrical appliances and safety measures to avoid accidents

REFERENCES:

1. Premlata Mullick, (2016). Textbook of Home Science, 4th edition,, Kalyani Publishers
2. Varghese &Oagle (2005) Home Management, New Age International Publishers.
3. Subasini Mohapatra (2010).Home Management and Household Economics, Kalyani Publishers.
4. Premavathy Seetharaman, Parveen Pannu (2005), Interior Design and Decoration, 1st edition, CBS Publishers.
5. Sushma Gupta, Neeru Garg &Renu Saini (2018), Text book of Family Resource Management, Hygiene and Physiology, 11th edition, Kalyani Publishers.
6. Pratap Rao, M. (2012), Interior Design – Principles & Practice, 4th edition, Standard Publishers & Distributors.
7. Prof. Veena Gandotra, Dr. Sarjoo Patel (2006), Housing for Family Living, 1st edition, Dominant Publishers & Distributors

CO-CURRICULAR ACTIVITIES:

1. Study of building materials and equipment which are not included in the syllabus
2. Visiting Places- Building sites/ Construction
3. Drawing layouts
4. Model making- clay, cardboard etc
5. Debates/Seminar/Group discussions/Quiz
6. Charts & Poster Presentations
7. Organizing exhibitions
8. Album making of Layouts, finishes. Household Equipment etc

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