

Textiles (44)

(For Std. XII only)

Introduction

Food, shelter and clothing are three basic needs of mankind. The use of textiles has become more and more comprehensive as the field developed. Today it is not limited only to protect the human body but is also used to indicate the social status and for variety of other purposes. It is being used for clothing, home furnishing, household textiles and also for many other industrial and medical purposes.

Syllabus is framed for students who desire a fundamental understanding of textiles – their nature, selection, use and care. The syllabus is organised in logical manner. It deals with textile related terms, fibers, yarns, fabrics, finishes and care. The syllabus is designed in such a way that it gives student relevant information needed to become a better consumer of textile products and to teach others how they may select and purchase wisely.

As the scope of textiles is ever expanding so do the field of laundry. Realising the need separate topics included in the syllabus will help student to take care of textiles in satisfactory manner. The practical knowledge will develop entrepreneurship skills among the students.

Objectives

To enable the student to

1. get acquainted with the properties and uses of various textile fibers.
2. understand different types of yarns, weaves and finishes.
3. develop skills in making wise purchase of textiles.
4. acquire knowledge of methods of laundry and stain removal.

5. create awareness regarding selection of textiles.
6. understand the principles of clothing construction and its application.
7. acquire basic skills of clothing construction.

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| Unit-1 | 1. Introduction to textiles <ol style="list-style-type: none"> 1.1 Meaning and scope 1.2 Classification of textile fibers 1.3 Properties of textile fibers |
| Unit-2 | 2. Natural fibers : Introduction, Properties, Uses <ol style="list-style-type: none"> 2.1 Cotton 2.2 Wool 2.3 Silk 2.4 Asbestos |
| Unit-3 | 3. Man made fibers : Introduction, Properties, Uses <ol style="list-style-type: none"> 3.1 Viscose Rayon 3.2 Polyester |
| Unit-4 | 4. Yarn <ol style="list-style-type: none"> 4.1 Introduction 4.2 Yarn formation 4.3 Yarn twist 4.4 Classification· Simple yarns-Single, Ply, Cable, Crepe Novelty yarns – Slub, Knot, Flock, Boucle, Nub, Chenille |
| Unit-5 | 5. Fabric construction <ol style="list-style-type: none"> 5.1 Introduction 5.2 Weaves <ul style="list-style-type: none"> • Classification Basic weaves |



- Plain, Twill, Satin·
Novelty weaves – Pile,
Leno-Gauze, Honey Comb
- 5.3 Non-woven fabric
construction
- Unit-6 6. Finishes
6.1 Introduction
6.2 Objectives
6.3 Basic finishes -Singeing,
Scouring, Bleaching,
Brushing, Sizing,
Weighting, Degumming,
Mercerizing, Delustering,
Sanforizing and calendering
6.4 Special finishes
- Unit-7 7. Consumer Awareness
7.1 Problems of consumers and
remedies
7.2 Labels
7.3 Purchase, storage and care
of textiles
- Unit-8 8. Laundry
8.1 Introduction :
Aims and objectives
Scope of Laundry
8.2 Cleansing Agent :
Introduction, Types, Uses,
Water, Soaps, Detergents
- Unit-9 9. Methods of laundering
9.1 Introduction
9.2 Various methods of
laundering
9.3 Washing of different types
of clothes – Cotton, Silk,
Wool, Synthetic
- Unit-10 10. Stain Removal
10.1 Introduction
10.2 Classification
10.3 Techniques and methods
10.4 General guidelines for stain
removal
- Unit-11 11. Introduction to Household
Textiles
11.1 Curtains and Draperies
11.2 Bed sheets and Pillow
covers
11.3 Towels and Napkins
11.4 Carpets and Rugs

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Practicals and project

1. Sewing tools and accessories
2. Sewing machine – Parts, functions and care of sewing machine
3. Basic terms used in clothing construction
4. Body measurements
5. Demonstration of various seams, necklines, plackets, fastners
6. Stitching of Apron by incorporating following -
 - i) Bias binding for bib
 - ii) Patch pocket
 - iii) Belt
7. Stitching of A line frock by incorporating following -
 - i) Bias binding for armhole and neckline
 - ii) Plain placket
 - iii) Fasteners
8. Identification of Textile fibres by performing burning test –Cotton, Wool, Silk, and Polyester fibre
9. Identification of basic weaves - Plain, Twill, Satin
10. Identification of novelty weaves - Honey comb, Pile, Leno-gauze
11. Collection of textile labels – Informative, Brand, Certification
12. Maintenance of journal
13. Any one project based on syllabus

