

CLOTHING AND TEXTILE (HSC-302)

Focus: This course will make student aware regarding various basic concept and knowledge of textile and to select the right kind of fabric for specific use.

Objectives:

- To provide information regarding different kind of Textiles.
- To impart knowledge regarding selection of clothing.
- To develop skill for garment construction.

BLOCK I: INTRODUCTION TO FIBRE

UNIT1. TYPES OF TEXTILE FIBRES

1.1 Textile FIBRE

1.1.1 Classification,

1.1.2 primary and secondary properties

1.1.3 Identification of fibres: Visual test, microscopic test, chemical test and burning test

UNIT2. NATURAL FIBRES

2.1 Definition and classification

2.1.1 (cotton, bast, wool and silk): processing, properties, uses.

UNIT3. MANMADE FIBRES

3.1 Classification and types

3.1.1 (rayon, acetate, nylon, polyester, and acrylic):

3.2 manufacturing process, properties and uses

BLOCK II: INTRODUCTION TO YARN AND FABRIC CONTRUCTION

UNIT4. Yarn classification and properties and spinning process

4.1 Classification

4.2 properties

4.3 spinning process

UNIT5. Methods of fabric construction:

5.1 Weaving,

5.2 Knitting,

5.3 Non-woven, Lace, net, braiding, macramé, crocheting

BLOCK III: DYEING AND PRINTING

UNIT 6 Dyes and their classification (natural and synthetic dyes).

6.1 Dyes

6.1.1 Classification

6.2 Natural dyes

6.3 Synthetic dyes

UNIT 7 Techniques of dyeing:

7.1 dyeing Techniques

7.2 Fibre (top and stock),

7.3 Yarn (hank/skein, package and beam dyeing),

7.4 Fabric/piece (winch, jig, jet, pad, beam) and garment dyeing.

UNIT 8 Different techniques of printing:

- 8.1 Tie and dye,
- 8.2 batik,
- 8.3 block,
- 8.4 roller,
- 8.5 screen
- 8.6 stencil printing.

BLOCK IV: FUNDAMENTALS OF GARMENT CONSTRUCTION

UNIT 9 Sewing Equipment and tools

- 9.1 Concepts (measuring, drafting, pinning, marking, cutting)
- 9.2 Sewing machine: Parts and their function, basic operation, defects and remedies, care and maintenance)

UNIT 10 Garment Construction

- 10.1 Body measurements
- 10.2 General techniques of garment construction (preparation, layout, marking, pinning and cutting).
- 10.3 Sewing terminology.

BLOCK V: SELECTION OF CLOTHES CARE AND MAINTAINANCE OF TEXTILES

UNIT 11. Clothing for different Age Group

- 11.1 Selection of clothes according to different age group (infant, toddler, teenager, adolescent and old age),
- 11.2 climate,
- 11.3 occasion
- 11.4 occupation
- 11.5 fashion, figure etc.

UNIT 12 Buying factors for ready-made garments –

- 12.1 Ready made garment
- 12.2 Factor Influencing buying of ready made garment
 - 12.1.1 size,
 - 12.1.2 suitability,
 - 12.1.3 durability,
 - 12.1.4 aesthetic appeal,
 - 12.1.5 fiber content,
 - 12.1.5 labels (basic information & care labels),
 - 12.1.6 brand,
 - 12.1.7 socio economic–conditions, location etc.

UNIT 13 Laundering equipment

- 13.1 Laundering equipment and cleansing agents such as water, soaps and detergents, chemical reagents,
- 13.2 Additives (stiffening and blueing).
- 13.3 Methods of Laundering and dry cleaning,

UNIT 14 Stain removal and care of textile

14.1 Ways of Stain Removal

14.2 Oxidizing bleaches and Reducing bleaches

14.3 Alkaline and Acidic agents

14.4 Care of Apperals

Suggested Reading

1. Vatsala, R. 2003. Textbook of Textiles & Clothing, Indian Council of Agriculture Research.
2. Classification of Textile Techniques, Calico Museum of Textiles, Ahmedabad, Vol. 14, 1979.
3. Coroman, P.B. Textiles - Fibre of Fabric, 6th ed., New York, McGraw-Hill, 1989.
4. Doongaji, Basic processes and clothing Construction, 6th ed., New Delhi, Raaj Prakashan.
5. D'souza, N., Fabric Science, 1990.
6. Dhantiyagi, S., Fundamentals of Textiles and their Care 4th ed. New Delhi, Orient Longmans, 1983.
7. Hess. K. P., Textile Fibres and their Use, Oxford and IBH Co & New Delhi, 1978.
8. Joseph, M.L. Essentials of Textiles (5th Edition), New York, Holi Rinehert & Winston, 1988.
9. Tortora g. Phyllis, Understanding Textiles (2nd Edition) MCmillan Co. USA, 1987.
10. Vidyasagar, P.V. Handbook of Textiles, New Delhi, Milttle Publication, 1998.
11. Winate, B. Isabel, Textile Fabrics and their Selection, 7th ed. Englewood Chilft, Prentice Hall, 1976.