

UNDERGRADUATE PROGRAMME IN HOME SCIENCE

FABRIC AND APPAREL SCIENCE

THEORY

SEMESTER - III

Paper No.	: 5
Maximum Marks	: 100
Credits	: 4
Teaching Periods	: 4 + 1 students' presentation / week
Teaching Load	: 56 periods + 14 periods/semester

Objectives

1. To familiarize the students with terminology related to textiles and apparel.
2. To impart knowledge to identify fabrics and relate it to specific products, keeping in mind fabric properties and characteristics.
3. To enable intelligent selection, use and care of textiles and garments in relation to the individual.
4. To give the basic knowledge of design and fashion.

Content

Periods

Unit I Fabric science

26

- Fibre
 - Introduction to fibre polymer
 - Morphology of textile fibres
 - Primary and secondary properties
 - Fibre classification: source and origin, chemistry and properties of generic groups
- Yarn
 - Staple and filament
 - Classification: simple, complex
 - Properties: twist, yarn number
- Fabric Construction and properties
 - Weaving
 - Knitting
 - Non-woven
- Finishes
 - Classification of finishes
- Dyeing
 - Stages of dyeing
- Printing
 - Methods & styles of printing

Unit II Apparel Concepts **18**

- Clothing functions and theories of origin
- Individuality and conformity, conspicuous consumption and emulation
- Selection of readymade garments (fit, workmanship, cost, appearance) & their evaluation
- Labels & standards

Unit III Design & Fashion **12**

- Elements and principles of design in textiles and clothing
Fashion-definition, terms, sources, cycle, factors favoring and retarding fashion

Recommended Readings:

D'souza, N., (1998), Fabric Science, New Age International Pvt. Ltd., Delhi

- Marshall S G, Jackson H O, Stanley MS, Kefgen M & Specht T, (2009), Individuality in Clothing & Personal Appearance, 6th Edition, Pearson Education, USA.
- Sekhri S., (2011) Textbook of Fabric Science: Fundamentals to Finishing, PHI Learning, Delhi.

FABRIC AND APPAREL SCIENCE

PRACTICAL

Paper No. :
Maximum Marks : 50
Credits : 2
Teaching Periods : 4/week
Teaching Load : 14 practicals / semester

Content	Practicals
1. Fabric Study	2
• Woven	
• Non-woven	
• Knitted	
• GSM	
2. Stain Removal	3
3. Surface Ornamentation	
• Tie & Dye	5
• Decorative Stitches	4