

B.Sc. (Fashion Design): Semester-IV BFD 405: TEXTILE SCIENCE AND CARE	
Teaching Scheme	Examination Scheme
Lectures: 4 hours/week	Class Test -12 Marks
Practical: Nil	Teachers Assessment – 6 Marks
Credits: 4	Attendance – 12 Marks
	End Semester Exam – 70 marks

Prerequisite: BFD 453 Women's Wear, BFD 456 Minor Project, BFD 552 Men's Wear, BFD 553 Functional Clothing, BFD 651 Graduation Design Collection

Course Objectives:

1. To give complete knowledge about different fabrics.
2. To explain properties of fibers.
3. To give complete knowledge of manufacturing of textiles fibers.
4. To give knowledge about laundry.
5. To explain the difference between natural and synthetic
6. To give overview of different laundry methods according to fabric.

Detailed Syllabus:

<p>Unit -I Introduction to Textile fibers</p> <ul style="list-style-type: none"> • Terms and definition related to textile. • Importance of textile • Fibers, filaments, yarns- spun yarns, filament yarns, • sewing threads • Fabrics- woven, knitted, non-woven. • Classification and nature of fibers
<p>Unit-II General fiber properties</p> <ul style="list-style-type: none"> • Fiber length • Fiber strength • Flexibility • Spinnability • Uniformity • Density • Luster • Moisture & Moisture regain • Water-repellant fibers. • Resiliency & compressibility. • Chemical, Environmental & other properties.
<p>Unit- III Manufacturing processes and properties of Textile fibers</p>

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Brief introduction about manufacturing processes and physical & Chemical properties of following textile fibers.

- Cotton.
- Silk.
- Wool.
- Polyester.
- Acrylic.
- Nylon.

Unit – IV Laundry of natural fabric

- Cotton.
- Silk.
- Wool.

Unit – VI Laundry of synthetic fabric

- Polyester.
- Acrylic.
- Nylon.

Course Outcomes:

After completing the course, the student shall be able to:

1. To remember the basic knowledge of fibers.
2. To understand the properties of textiles fibers.
3. To apply the importance of Natural fibers and synthetic fibers.
4. To analyze the manufacturing of fibers.
5. To evaluate the basic knowledge of laundry.
6. To create about different laundry according to fibres.

Suggested Readings

- Deulkar, D. (1976). Household Textiles and Laundry Work. Delhi: Atmaram Sons
- Marsh, J. T. (1979) Introduction to Textile Finishing, Mumbai: BI Publication
- Vigo, T. L. (1997). Textile processing and properties, preparation, dyeing finishing and performance. Amsterdam: Elsevier Sciences.

Note: Latest edition of readings may be used

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