

**B.Sc. (Fashion Design): Semester-II  
 BFD202: FUNDAMENTAL OF TEXTILES**

Teaching Scheme	Examination Scheme
Lectures: 4 hrs/Week	Class Test -12 Marks
Tutorials: 1hr./week	Teachers Assessment – 6 Marks
Credits: 4	<ul style="list-style-type: none"> <li>• Attendance – 12 Marks</li> <li>End Semester Exam – 70 marks</li> </ul>

**Prerequisite:** BFD 402 Fabric Studies, BFD 355, BFD 455 Surface Ornamentation-I&II, BFD 454 & Draping Techniques-I & II, BFD 651 Graduation Design Collection

**Course Object:**

1. To give complete knowledge about the different sector of textile industry.
2. To give knowledge about the fiber, yarn and fabric.
3. To explain difference between natural and synthetic fibers.
4. To give complete knowledge about the types of spinning processes.
5. To give knowledge about the different yarns and their specification.
6. To give knowledge about different fabric production techniques.

**Detailed Syllabus:**

**Unit I: The Overview of Textile Industry**

Introduction to textiles, major segments of the textile industry, market planning for apparels, primary and secondary sources of fabric buying and selling of finished fabric.

**Unit II: The Textile Fibers**

Definitions of fibers, sources of fibers, classification of fibers on the basis of origin and length.

**Unit III: Natural and Manmade Fibers**

Natural Fibers & Manmade fibers - properties, end uses and identification of fibers.

**Unit IV: Introduction to Yarns**

Spinning Process: mechanical and chemical spinning, Classification of yarns; Spun, Filament, Single, Ply yarns, Novelty yarns, textured yarns, loop, boucle, knot, knop, chenille, Mixtures and Blends.

Yarn twist & Yarn count.

**Unit V: Introduction to fabric production techniques**

Weaving, Knitting, Non-woven, Crocheting, Braiding, Felting, Tufting

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**Course Outcomes:**

After completing the course, students will be able to:

1. To remember the segmentation of textile industry.
2. To understand the importance of fiber in manufacturing of yarn and fabric.
3. To apply about the various natural and synthetic fibers and their properties.
4. To analyze the spinning process.
5. Evaluate between various types of yarn and fabrics and knowledge of fabric manufacturing techniques.
6. To create the importance of fiber, yarn and fabric in fashion and textile industry.

**Suggested Readings**

- Gohl E.P.G. & Vilensky, L. D. Textile Science, 1983. Longman Cheshire.
- Joseph M. L. Essentials of Textiles, 1988. 4<sup>th</sup> Edition. Holt, Rinehart, and Winston.
- Dhantyagi, S. Fundamentals of Textiles & their Care, 1983, Orient Longman.
- Gillow, J. and Sentance, B. World Textiles: A Visual Guide to Traditional Techniques, 2004, Thames & Hudson.
- Phyllis Tortora, P.G., Understanding Textiles, 1992, Macmillan Publishing Company.
  
- Textiles & Clothing - <http://www.textbooksonline.tn.nic.in/books/11/stdxi-voc-textiles-em.pdf>
- Fiber to Fabric - <http://www.nios.ac.in/media/documents/Sec>

Note: Latest edition of readings may be used

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