



Bachelor of Science - Home Science
(B.Sc.- H.Sc.) (Home Science) Semester (II)

Course Code	UH02CTCL55	Title of the Course	Introduction to Textiles
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	<ol style="list-style-type: none">1. Understand various fibers, yarns and fabrics used in textiles manufacture.2. Learn various fabric construction techniques.3. Understand the finishes applied on textiles.
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Course Content		
Unit	Description	Weightage* (%)
1.	(a) Textile terms (b) Classification of Textile fibers	10
2.	Origin, Properties, use & care of the natural fibers (a) Animal/ Protein fibers- wool, silk (b) Plant/ Cellulosic fibers- cotton, linen (c) Natural Rubber (d) Natural Mineral-asbestos	20
3.	Properties, use & care of the manufactured fibers (a) Regenerated fibers-rayon, acetate (b) Synthetic fibers-polyester, nylon, acrylic (c) Inorganic fibers-glass, (d) Elastomeric fibers-	20
4.	Yarns (a) Classification of yarns (b) Types of yarns: simple, novelty, textured, thread Properties of yarns: Yarn numbering systems and twist a) Blends: Types of blends and purpose of blending	20
5.	Methods of Fabric construction (a) Weaving-classification, characteristics and use (b) Knitting- classification, characteristics and use (c) Non-woven- classification, characteristics and use (d) Other methods- laces, braiding, tufting etc.	20



6.	Textile Finishes (a) Meaning, importance and classification (b) Preparatory finishes	10
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Teaching-Learning Methodology	Using blackboard, power point presentation, using smart board, using charts, figure and garment physical analysis, actual fibers, yarns and fabric sample analysis
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understand various fibers, yarns and fabric construction methods, their typicality.
2.	Identify and distinguish available fabrics in market and ultimately enabling them to select best suitable fabric for apparels and home textiles.

Suggested References:	
Sr. No.	References
1.	Nakamar, A. (1996). <i>Fiber Science And Technology</i> . Oxford & IBH Pub. Bombay.
2.	Dantyagi, S.(1996). <i>Fundamentals of Textiles and Their Care</i> .
3.	Hentry, E. & Byett, J.D. <i>Modern Home Laundry Work</i> .
4.	Gokaneshan, N. (2009). <i>Fabric Structure & Design</i> . New Age International (P) Ltd., New Delhi.
5.	Corbman, B.P. (1983). <i>Textile-Fibers to Fabrics</i> . McGraw Hill International Editions
6.	Dawn J. (1999). <i>Textile technology to GCSE</i> . Oxford university press

