SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2021-2022

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

Course Code	UH02CTCL56	Title of the Course	Practical - Introduction to Textiles
Total Credits of the Course	02	Hours per Week	04

Course Objectives:	1. Develop skills in fiber, yarn and fabric identification based on construction technique. 2. Gain knowledge on relationship between method of fabric construction, fabric count and fabric weight.

Course Content		
Unit	Description	Weightage*(%)

1.	Fiber identification-visual and microscopic appearance
	   (a) Natural fibers-cotton, jute, silk, wool
	   (b) Regenerated fibers-rayon, acetate
	   (c) Synthetic fibers-polyester, nylon, acrylic
		20

2.	Sample Collection of types of yarn
	   (a) Simple yarn- single, ply, cord
	   (b) Novelty yarn(any 05 types)(viz. loop, slub, ratine, metallic)
	   (c) Textured yarn
		20

3.	Fabric analysis (five each) - Fibre type - Yarn type - Weave –Fabric count- GSM - End use - Trade name
	   (a) Light weight fabrics
	   (b) Medium weight fabrics
	   (c) Heavy weight fabrics
	(Viz. muslin, lawn, organdie, georgette, drill, poplin, flannel, jersey, marquisite/ net,velvet)
		20

4.	Calculate the weight per unit area (05 types each)
	   (a) Light weight fabrics
	   (b) Medium weight fabrics
	   (c) Heavy weight fabrics
	(Viz. poplin, muslin, buckram/canvas, kantaan, lizy bizy etc.)
		20

5.	Sample collection and fabric identification(05 types each)
	   (a) Woven fabrics
	   (b) knitted fabrics, non-woven fabrics
		20

Teaching-Learning Methodology	Demonstration, visual sample analysis, discussion, assignments, laboratory performance

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, 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 and identify fibers, yarns and fabrics used in textile materials and its end use.
2.	Acquire skills in identifying type of fabric and effect of count and weight on physical properties and performance characteristics of fabric.

Suggested References:	
Sr. No.	References
1.	Corbman, B.P. (1983).*Textile-Fiber to Fabrics*. McGraw Hill International Editions
2.	Gokaneshan, N. (2009).*Fabric Structure & Design*. New Delhi:New Age International (P) Ltd.
3.	Dantyagi, S. (1996). *Fundamentals of Textiles and Their Care.*
4.	Corbman, P.B.&Gregg. (1985). *Textiles- Fiber to Fabric* . US :(6th Edition). Division/McGraw Hill Book Co.
5.	Joseph, M.L.(1988).*Essentials of Textiles* .Florida :(6th Edition).Holt, Rinehart and Winston Inc.
6.	Sekhri S. (2013).*Textbook of Fabric Science: Fundamentals to Finishing*. Delhi: PHI Learning.

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