

Faculty of Design

Bachelor of Design (Fashion Design)

(Semester-II)

With Effect from-2026-27

Branch Name:	Faculty of Design
Program Code:	FD102
Course Name:	Introduction to Textiles
Course Code:	2FD1020206
Pre-requisite Course:	

Course Objectives:

- Understand the fundamentals of textile science and terminology.
- Classify and identify natural and manufactured textile fibers.
- Explain yarn production and fabric construction techniques.
- Analyze fabric properties and their relevance to fashion design.
- Understand basic dyeing, printing, and finishing processes.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme(Marks)								Total (Marks)
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory(Marks)				Practical(Marks)				
				University Assessment		Continuous Assessment		University Assessment		Continuous Assessment		
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
2	-	-	2	09	25	09	25	-	-	-	-	50

Subject Contents:

Sr No.	Topic	Total Hours	Weightage (%)
1	Fundamentals of Textiles • Definition and scope of textiles • Importance of textiles in fashion and apparel • Textile terminology • Textile manufacturing overview Classification of Textile Fibers • Natural fibers ○ Cotton ○ Linen ○ Wool ○ Silk • Regenerated fibers ○ Rayon ○ Modal ○ Lyocell • Synthetic fibers ○ Polyester ○ Nylon ○ Acrylic ○ Spandex	6	25%
2	Fiber Properties • Physical properties • Chemical properties • Mechanical properties	6	25%

	• Thermal properties • Moisture absorption and comfort 1.4 Fiber Identification Methods • Visual examination • Burning tests • Microscopic identification • Solubility tests (theoretical)		
3	Fabric Properties and Textile Processing Fabric Performance Characteristics • Strength and durability • Drape • Flexibility • Texture and handle • Wrinkle resistance • Dimensional stability • Comfort properties	6	25%
4	Technical and Innovative Textiles • Smart textiles • Performance fabrics • Functional textiles • Sustainable textile innovations Sustainable Textiles • Eco-friendly fibers • Organic textiles • Recycled fibers and fabrics • Circular textile economy • Environmental issues in textile production	6	25%

Reference Books:

Sr. No.	Books
1	Fundamentals of Textiles and Their Care – G. K. Ghosh, PHI Learning Pvt. Ltd., 2005.
2	Introduction to Textile Fibres – H. V. Sreenivasa Murthy, Woodhead Publishing India, 2008.
3	Fabric Structure and Design – M. P. Grover & D. S. Tyagi, Walia Book House, 2015.
4	Textile Science – Vilensky Gohl & L. D. Vilensky, CBS Publishers & Distributors, 2017.

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Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Classify textile fibers and yarns based on their characteristics, properties, and applications.	1 Remembering
CLO2	Differentiate between woven, knitted, and non-woven fabrics and explain their construction methods.	2 Understanding
CLO3	Analyze the physical and aesthetic properties of fabrics for various apparel and textile end uses.	3 Applying
CLO4	Identify and evaluate different fabrics using appropriate testing and fabric analysis techniques.	4,5 Evaluate, Analyse
CLO5	Select suitable fabrics for fashion products considering performance, care requirements, sustainability, and consumer needs	3 Applying
CLO6	Classify textile fibers and yarns based on their characteristics, properties, and applications.	1 Remembering

Mapping of CLOs with Pos & PSOs

Course	Program Outcomes(POs)										Program Specific Outcomes (PSOs)	
Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CLO1		M			L						M	
CLO2	M			H		H						M
CLO3	M		M				L				H	
CLO4		H				H		M				M
CLO5			H		M			H		M	M	
CLO6	M			H		H	M					M

H:High, M:Medium, L:Low