

Branch Name	Master of Design (Fashion Design)
Branch Code	FD201
Course Name:	Quality Control
Course Code	2FD2010206
Pre-requisite Course:	-----

Course Objectives:

1. Understand the basics of quality control and its importance in the textile and apparel industry.
2. Identify and evaluate the quality of fibers, yarns, fabrics, and garments using simple testing methods.
3. Detect common defects and quality issues in textile products and suggest corrective measures.
4. Follow quality standards and practices to ensure consistent product quality and customer satisfaction

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	10	25	10	25	-	-	-	-	50

Subject Content:

Sr.No	Topic	Total Hours	Weightage (%)
1	Fundamentals of Textile Testing and Quality Assurance • Introduction to textile testing and quality control • Importance of quality assurance in the fashion and textile industry • Textile standards and specifications • National and international testing standards and organizations	6	25%
2	Fiber, Yarn, and Fabric Testing • Identification and testing of textile fibers • Yarn testing: Count, twist, strength, evenness, and appearance • Fabric testing: ○ Fabric weight and thickness ○ Thread count and fabric construction ○ Tensile strength and tear strength ○ Abrasion resistance and pilling resistance ○ Evaluation of dimensional stability and shrinkage ○ Interpretation of laboratory test results	6	25%
3	Apparel Quality Evaluation and Performance Testing • Quality parameters in garment manufacturing	6	25%

	- Garment inspection systems and defect analysis - Color fastness testing: - Washing - Rubbing - Perspiration - Light exposure		
4	Advanced Quality Management and Sustainable Practices - Total Quality Management (TQM) in textile and apparel industries - Sustainable quality practices and environmental compliance - Product safety regulations and certification systems	6	25%

Reference Books:

S.No	Books
1	Principles of Textile Testing, CBS Publishers & Distributors
2	Textile Testing and Analysis, Woodhead Publishing
3	Textiles: Fiber to Fabric, McGraw-Hill Education

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

CLO	Description	Bloom Taxonomy Level
CLO1	Explain the basic concepts and importance of quality control in the textile industry.	4,5 Evaluate, Analyse
CLO2	Identify quality parameters of fibers, yarns, fabrics, and garments	3 Applying
CLO3	Perform standard tests to evaluate the quality of textile materials and products.	1 Remembering
CLO4	Apply quality control and quality assurance techniques during textile production.	2 Understanding
CLO5	Follow industry quality standards to ensure product consistency and customer satisfaction	3, 6 Applying, Creative

Mapping of CLOs with Pos & PSOs

Course	Program Outcomes (PO's)										Program Specific Outcomes (PSO)	
Learning Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2
CLO 1	L			H							M	
CLO 2		M				L	L					
CLO 3			M		M					H		M
CLO 4	H							M			M	
CLO 5		M			L	M			L			L
CLO 6				H	H				H	M	H	

H: High, M: Medium, L: Low