

(REVISED)

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION, RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME FOR

Diploma I Year FASHION DESIGNING (FD)
ANNUAL SCHEME SESSION 2017-2018 & ONWARDS

Code No.	Subject	Distribution of Time							Distribution of Max. Marks/ Duration					Total Marks
		Hours per week							Board's Exam.					
		L	T	P	Total	TH	Hrs.	PR	Hrs.	CT	TU	PR(S)		
FD 101	TEXTILE SCIENCE-I	2	-	2	4	70	3	50	3	30	-	50	200	
FD 102	HISTORY OF FASHION	2	-	-	2	70	3	-	30	-	-	-	100	
FD 103	BASIC PATTERN MAKING	2	-	4	6	70	3	50	3	30	-	50	200	
FD 104	BASIC DESIGN & FASHION ORIENTATION	2	-	2	4	70	3	-	30	-	-	50	150	
*FD105	ENGLISH AND BUSINESS COMMUNICATION-I	2	-	2	4	70	3	50	3	30	-	50	200	
*FD106	ENVIRONMENTAL STUDIES	2	-	-	2	70	3	-	30	-	-	-	100	
FD107	FASHION ILLUSTRATION-I	-	-	4	4	-	-	50	3	-	-	50	100	
FD 108	GARMENT CONSTRUCTION-I	-	-	4	4	-	-	50	3	-	-	50	100	
FD109	SURFACE ORNAMENTATION-I	-	-	2	2	-	-	50	3	-	-	50	100	
*FD 110	BASICS OF COMPUTER	-	-	2	2	-	-	50	3	-	-	50	100	
	*STUDENT CENTRED ACTIVITIES	--	--	2	2	--	--	--	--	--	--	--	--	
TOTAL		12	-	24	36	420		350	180		400	1350		
	GRAND TOTAL											1350		

*STUDENT CENTRED ACTIVITIES include expert lectures/ practice sessions on technical topics of common interest, personality development, human values, yoga, industrial visits, art of living, environmental issues, quiz programmes, interview techniques, greening and cleaning the campus etc.

Student Centred Activities will be graded on the basis of attendance, interest and learning of the student.

1. L : Lecture
2. T : Tutorial
3. P : Practical
4. TH : Marks for Board Examination for Theory
5. PR : Marks for Board's Examination for Prac
6. CT : Marks for Class Tests
7. TU : Marks for Tutorials
8. PR(S) : Marks for Practical and Viva

* FD 105, * FD 106 and* FD 110 Same as HM 105, HM106 and HM 110

TEXTILE SCIENCE-I**CODE:FD- 101**

L	T	P
2	-	2

RATIONALE

The knowledge and skills related to textile science is essential to provide a comprehensive insight into the basic knowledge about fibres, yarns and relevant properties affecting the ultimate performance and use of fabrics by the consumer, hence the subject is included in the curriculum

CONTENTS**1. Introduction to Textile Fibre, Yarn and Fabric**

- 1.1 Classification of important textile fibres based on their origin and constituents
- 1.2 Important Physical and chemical properties of following fibres
 - 1.2.1 Cotton
 - 1.2.2 Jute
 - 1.2.3 Linen
 - 1.2.4 Wool
 - 1.2.5 Silk
 - 1.2.6 Polyester
 - 1.2.7 Nylon
 - 1.2.8 Acrylic
 - 1.2.9 Spandex
 - 1.2.10 Viscous
 - 1.2.11 Rayon
- 1.3 Need and importance of identification of fibres

2. Yarn Processing

- 2.1 Types of yarn and their properties relevant to fabric behaviour
 - 2.1.1 Simple Yarn
 - 2.1.1.1 Single
 - 2.1.1.2 Ply
 - 2.1.1.3 Cord
 - 2.1.2 Novelty Yarn
 - 2.2.2.1 Slub
 - 2.2.2.2 Boucle
 - 2.2.2.3 Chenille
 - 2.2.2.4 Nubs
 - 2.2.2.5 Corkscrew
 - 2.2.2.6 Grindelle
 - 2.1.3 Textured Yarn
 - 2.1.4. Stretch Yarn, Bulk Yarn, Core spun Yarns
 - 2.1.5 Blended Yarn
 - 2.1.6 Yarn twist, Count/size

2.2 Theory of direct and indirect method of Yarn numbering systems

Assignment for students

1. Prepare a catalogue of fabric samples under following heads:
2. Fibre Composition – Names by which they are available (Trade Names)
3. Yarn Structure – Texture variation

Note: The teacher may develop master samples to demonstrate various processes. The students may be asked to prepare swatch files. The students should be taken for a visit to spinning mills to show the various processes or relevant video films may be screened

PRACTICAL

- 1.. Physical analysis of fabric composed of different fibres like cotton, Jute, linen, wool, silk, polyester, nylon, acrylic, spandex, viscose and rayon
2. Visual examination of fibres and yarns
3. Identification of fibres in a fabric sample through
 - 3.1 Burning test
 - 3.2 Microscopic test
 - 3.3 Chemical test (solubility test)
4. Visit to spinning mill or show relevant video films to understand the various systems of yarn spinning-Staple, filament and spun filament yarns
5. To analyze and understand fabric texture (appearance and hand) on the basis of yarn used
 - 5.1 Fabrics using simple yarn
 - 5.2 Fabrics using nylon yarn
 - 5.3 Fabrics using filaments-textured, on textured and spun filament
6. To determine amount of twist by twist tester
7. To determine yarn count by simple weighing method
8. Prepare a catalogue of fabric samples made by using different methods of construction
9. Visit to mill units producing woven or non woven to understand type of looms and processes or relevant video film may be shown.
10. To determine the fabric (Yarn) count
11. To identify the woven fabrics for
 1. Warp and weft
 2. Face and back
 3. Prepare a point-paper diagram of basic weaves and their variations.
 4. Prepare a list of fabrics available under each category of weaves
12. Identify types of selvedge, market survey of fabrics composed of different fibres and categorised for
 1. Variation of textures (smooth to rough)
 2. Variation of weight (Light weight to heavy weight)
 3. End uses
 4. Trade names

Assignments for the Students

Prepare a catalogue of fabric samples under following heads: