

**TEXTILE DESIGNING - ONE YEAR**

**TEXTILE SCIENCE**

**Semester – I**

**Theory**

**Practical**

**Introduction**

1. Definition of Fiber , Polymerization, Degree of Polymerization
2. Fiber Classification : - Flow Char
3. Sources of Textile Fibers :- Criteria of Classification

**Properties**

1. Primary Properties :- Length of Breadth Ratio, Tenacity, Flexibility, Spinning Quality, Uniformity ?
2. Secondary Properties :- Physical Shape, Density, Color, Lusture, Moisture Regain & absorption, Thermal Reaction, Elongation, Resiliency Dimensional Stability

**Miscellaneous Properties**

1. Abrasion Resistance
2. Cover
3. Hand
4. Pilling
5. Wicking

**Natural Fibers :-**

1. Cotton  
History, Growth & Production, Quality Determination, Properties of Cotton, Chemical, Microscopic, Chemical, Biological, Thermal, Fiber Identification, Burning Test, Cotton Fabrics Application.
2. Linen  
History, Growth & Production, Preparation of Fiber, Physical properties, Chemical, Microscopic, Chemical, Biological Thermal, Application, Fiber Identification, Aftercare & Labeling Favorable, In favorable points.
3. Other Vegetable Fibers  
Kapok, Hemp, Jute, Ramie, Sisal, Manila, Loir
4. Silk  
History, Sericulture, Processing, Microscopic Physical, Chemical, Biological, Thermal, Thermal Properties, Application, Labeling.

- a. Fabric Folder : Details of different kinds of Fabrics , Their Fiber Composition Names & Prices.
- b. Identification Test of Fibers (Burning Test), Visit to Spinning Mills, Craft, Museum.

5. Wool

History, Processing, Classification, Manufacturing, Physical Microscopic, Thermal, Chemical, Biological, Telling, Setting, Fiber Identification, Application, Fabrics

Man – Made Fabric

1. Rayon

Manufacturing, Process, Properties (Physical, Chemical, biological, Thermal), Favorable & Unfavorable, Application, After care , Labeling, Types.

2. Acetate

Manufacturing, Properties, Favorable, Unfavorable, Application, Aftercare, Labeling, Types.

3. Nylon

Manufacturing, Properties, Favorable, Unfavorable, Application, Aftercare, Labeling, Types.

4. Polyester

Manufacturing, Properties, Favorable, Unfavorable, Application, Aftercare, Labeling, Types.

5. Acrylic/ Modacrylic

6. Spandex

Manufacturing, Properties, Favorable, Unfavorable, Application, Aftercare, Labeling, Types.

7. Glass

Spinning Procedure

Cotton Yarn Manufacture, Wool Yarn Manufacture, Bast Fiber Spinning System, Silk Spinning, Man- Made Fiber Spinning, Spinning Techniques, Ring Spinning, Open end Spinning, Friction Spinning, Voster Spinning, Airjet Spinning, Integrated Composite Spinning, self Twist Spinning, Twisters Spinning.

Yarns

Spun, Filament, Monofilament, Multifilament, Balanced Unbalanced Yarns, Direction of Twist, Single, Ply, Cord Yarns, Yarn Numbering System, Textured Yarns, Novelty Yarns, Blends & Mixtures.

**TEXTILE DESIGNING - ONE YEAR**  
**TEXTILE SCIENCE**

**Semester- II**

**Theory**

**Practical**

Weaving

Basic Definitions, Basic Weaving Operation,  
(Placement of Yarn basic Loom Operations),  
Parts of Loom, Types of Loom, Selvedge, Basic  
Weaves (Plain, Satin, Rib, Basket, Twill),  
Decorative Weaves (Dobby & Jacquard),  
Surface Figured Weaves (Lappet, Swivel, Spot,  
Leno, pile, Double – Cloth Weave), Fabric Defects.

Other Types of Textiles

A. Non- Woven :- Basic Definition, Types felts,  
Bounded Fabrics, Specialty non-woven

1. Felts :- Definition, Properties, disadvantages, Uses.
2. Bonded Fabrics :- Definition, Manufacture.

B. Stitch Bonded & tufted Fabrics, Open Work Fabrics  
(Laces) & fabrics – Very Brief.

C. Knifing :- Basic Definition, Needles , Warp Knits  
& Weft Knits, Basic Stitches used, Glossary.

Visit to NITRA

**TEXTILE DESIGN –ONE YEAR**  
**INDIAN TRADITIONAL DESIGN**

1. Kashmiri

a. Shawls : Fabric used, Organization of Industry, Types of Shawls, Stitches used, Different Styles, Color used, Thread used, motives.

b. Carpets :- Namda, Gabba & Hard Trade Rugs (Raw material, Techniques, Types of Knots, Designs).

2. Punjab :- (Phulkari)

Brief history, Material used, Threads used, techniques used, Stitches used , Kinds of Phulkari's.

3. Bengal :- (Kantha, Baluchar Sari, Jamdaris)

a. Brief History, Material, Motives, Types of Kantha.

b. Baluchar Sari :- Brief History, Material, Motives.

c. Jamdaris :- Origin & Development, Techniques, designs.

4. Banaras :- (Brocades)

History, Types, Designs, Different Types of Silk Fabrics.

5. Uttar Pradesh :- (Chikankari)

History, fabric used, Thread used, Colors used.

6. Gujarat :- (Patola, Sindh, Kutch & Kathiyavar)

a. Patola :- History, Manufacturing, Process, Motives & Design.

b. Sindh & Kutch :- Moti Bharat, Kanoi Bharat, Ahir, Rabari work, Mochi Bharat (Material Colors, Process, Motifs).

c. Kathiwar Emb. :- Heer Bharat , Abhla Bharat, Chain Stitch, Embroidery, Sindhi Toropa, Appliqué Work, Moti Bharat . (Material, Articles made, Motives, Stitches , Color).

7. Rajasthan :- (Bandhini)

History, Centers, Articles, designs, Manufacturing Techniques.

8. Andhra Pradesh :- (Kalamkari)

History, Techniques & Processes, Methods, Stages.

9. Karnataka :- Kasuti

Motives, Colors used, Threads, Stitches.

10. Maharashtra :- Paintharis

Motives, Colors, Material

11. Tamil Nadu :- Kanjiwarams  
Fabric, Colors, Motifs

12. Orissa :- Ikat  
Types, Motifs, Colors, Technique

13. North :- East Textiles

**Semester- I**

	Theory	Practical
1. Kashmir		2 Sheets (Showing Traditional Design)
2. Rajasthan		2 Sheets (Showing Traditional Design)
3. Karnataka		2 Sheets (Showing Traditional Design)

**Semester – II**

1. Punjab		2 Sheets
2. Bengal		2 Sheets
3. Banaras		2 Sheets

**Note:** All the work to be done on ½ imperial cartridge sheet using Poster Colour.

**TEXTILE DESIGN – ONE YEAR**  
**DYEING & PRINTING**

**Semester- I**

Theory

1. Match Stick Printing
2. Potato Printing
3. Nosel Printing
4. Stencil with Spry

Practical

- Saree Bags
- Mats & Napkins
- Table Cloth
- T-Shirt

**Semester- II**

Dyeing & Printing Technology

5. Dyeing of Cotton
6. Block Printing
7. Screen Printing
8. Batik

Make a folder of tie & dye samples & dyeing dupatta.

Make a dupatta of blocks.

Make a diwan cover.

Make a wall hanging of batik.

**Note:-** All the paper work to be done on ½ cartridge sheet before doing any practical.

**Textile Designing One Year**  
**Nature Study & Still Life**

Scope: To enable the students to work as Textile Designers.

Objective: To teach them the basics of free hand sketching.

**Theory**

**Practical**

**Semester – I**

- |   |          |
|---|----------|
| 1. Objects - 4 different types                                | 2 Sheets |
| 2. Pots – Different size & type of pots & composition of pots | 3 Sheets |
| 3. Drapery  | 1 Sheet  |
| 4. Individual Leaves study                                    | 1 Sheet  |
| 5. Composition of leaves in colour / stippling                | 2 Sheets |
| 6. Leaves with flowers in colour                              | 1 Sheet  |

**Semester – II**

- |  |          |
|--|----------|
| 7. Different fruits in colour              | 2 Sheets |
| 8. Fruits with objects                     | 1 Sheet  |
| 9. Dry fruits composition                  | 1 Sheet  |
| 10. Different vegetables in colour         | 1 Sheet  |
| 11. Composition of vegetables in stippling | 1 Sheet  |
| 12. Bottles in composition                 | 1 Sheet  |

**Note:** Work to be done on 1/2 imperial cartridge sheet.

**TEXTILE DESIGNING – ONE YEAR**

**BASIC DESIGN**

Scope: To enable the students to work as Textile Designers.

Objective: To teach the students the basics of designs.

**Theory**

**Semester – I**

Basic Designing

- |  | <b>Practical</b>                          |
|--|---|
| 1. Lines and their effect  | 5 Sheets                                  |
| 2. Textures  | Texture folder should be made of size A4. |
| 3. Colour Wheel  | 1 Sheet                                   |
| 4. Composition of Basic Shapes   | 1 Sheet                                   |
| 5. Placement – Checks, Half drop, Horizontal, Vertical, Diagonal, Mirror, All over checks, Mix ‘n Match, Equi Distant, Diagonal Checks, Bricklaying and Double Half Drop | 2 placement in 1 sheet. (4 sheet)         |

**Semester – II**

Creative Designing

- |   |         |
|---|---------|
| 6. Monochromatic - For furnishing           | 1 Sheet |
| 7. Polychromatic – Dress material           | 1 Sheet |
| 8. Achromatic - Design for gents wear       | 1 Sheet |
| 9. Analogous – Composition on accessory     | 1 Sheet |
| 10 Rainbow – Kids room wall paper design    | 1 Sheet |
| 11 Contrast – Saree with border             | 1 Sheet |
| 12 Dramatic – Stripes in Red, Black & white | 1 Sheet |

**Note:** All the work to be done of ½ imperial sheet.



**TEXTILE DESIGNING – ONE YEAR**  
**EMBROIDARY**

Scope: To enable the students to work as Textile Designers.

Objective: To teach the students the basic stitches involved in Garment Construction.

**Theory**  
**Semester – I**  
Basic Stitches

1. Stem Stitch
2. Chain stitch
3. Lazy Daisy Stitch
4. Double Lazy Daisy stitch
5. Chevron stitch
6. Herring Bone
7. Close herring bone
8. Blanket stitch
9. Button Hole Stitch

**Practical**

Make a embroidery file with hankies approx 12" x 12" and motive size should be 4" x 4". One hanky should contain one stitch only.

**Semester – II**  
Decorative Stitches

- 10 Satin Stitch
- 11 Long and short stitch
- 12 Rumanian stitch
- 13 French knot
- 14 Bullion stitch
- 15 Back stitch
- 16 Running stitch
- 17 Cross stitch

Make a embroidery file with hankies aprox. 12" x 12"