

GUJARAT TECHNOLOGICAL UNIVERSITY

COURSE : TEXTILE PROCESSES-I

TOPICS :

1. Classification of Textile Fibers.
2. Manufacturing stages in brief (without Chemistry steps & mechanism) of manmade Fibers such as viscose rayon, Acetate rayon, nylon, polyester, Acrylic & polypropylene.
3. Brief study of physical & chemical properties of above fibers.
4. Brief study of cotton, wool & silk fiber. Preparation, their physical & chemical properties.
5. Identification process of all textile fibers.
6. Brief study of Filament yarn, staple yarn, textured yarn, twisted yarn.
7. Introduction of woven-Nonwoven Fabrics-knitted Fabrics.

Practicals :-

1. Line diagram of manufacturing stages of various manmade fibers.
2. Study of physical properties of manmade fibers
3. Study of Chemical properties of manmade fibers
4. Microscopic examination of Longitudinal & cross sectional views of different fibers.
5. Identification of unknown fibers.

Books :-

1. Manmade Fibers by Moncreif
2. Textile fibers by V.A.Shenai
3. Textile chemistry-I by R.H.Peters
4. Chemistry of Fibrous materials by F.Sadov
5. A glimpse of Chemical procening by R.R. Chakrawarty.

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TEXTILE CRAFT - I

Theory :

- : History of Arts and Crafts
- : Fundamental of Craft
- : Basic principles
- : Pattern and colour
- : Material- Yarns
- : Non-Loom weaves/card weavers
- : Cutting pating college
- : Warping of thread on mount board
- : Dary, Rugs and Asan - Cotton, Wool, Fancy Yarn
- : Hand painting/Embroidery/-Theory in Classification
- : Block printing/Kalamkari & Brush work painting
- : Tie and Dye on cellulotics

Practical

- * Evolving forms and their organisation into designs (Pattern) in view technical scope and limitation with colour material-yarn.
- * Visualisation of Design : Concepts for objects of Non-loom weaves- Painting/printing-dyed fabrics with limited colour.
- * Visualisation of designs for various kinds of fabrics with vivid texture of aesthetic interest and functional value.

Term Work :

About 6 specimens be submitted in the suitable -size/Repeat required for specific purpose from the item given below.

1. Bandhani :- (a) odhani (b) shawl (c) sari-part of sari (e) Rumal - sample piece
2. Hanging - Cotton-Wool/Tie & dyed/Dary, Rugs.
3. Dress & Furnishing - Materials
4. Sari-Body-Border-Pallave.

Books

1. 5000 Years of Arts and Crafts in India and Pakistan by-Shanti Swarup.
2. Oriental Rugs and carpets by-Fabric formentor
3. Decorative Design and Craftmanship of India with over 10,000 design and motifs from the craft of India by - Kamaladevi Chattopadhyaya.
4. Tie-dyed Textiles of India Tradition and Trade by - Veronica Murphy and Rosemary Crill
5. A. Second Treasury of knitting pattern by - Barbara G. Walker.
6. Cotton dyeing & printing by - Industrial Expert.

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COURSE : FABRIC DESIGN (I)

THEORY

1. Introduction to point paper
Representation of weave with
(i) Design. (ii) Draft. (iii) Plan.
2. Study of Elementary Weaves.
(i) Plain weave ornamentation and derivation. (ii) Twill weave -
Classification of Twill weaves. (iii)Satin & Sateen weaves.
3. Construction & study of the following
 1. Diamond and diaper weave.
 2. Spot figure Design.
 3. Barley Corn weave
 4. Reversing design
 5. Crepe weave
 6. Colour and weave effect.
 7. Honey comb weave.
 8. Huckaback weave
 9. Mock leno weave
 10. Distorted weave
 11. Corkscrew weave.

PRACTICALS :-

I Preparing Samples on Hand loom

- (1) Plain weave on 4 shafts
- (2) Stripe Fabric
- (3) Twill Fabric
- (4) Sateen Fabric
- (5) Honey comb. Fabric
- (6) Diamond Fabric
- (7) Crape Fabric

II Preparing Samples based on colour & weave effects At least 4 samples by using woolen yarn.

III Analysis of the following cloth Samples

- (1) Plain Fabric
- (2) Twill Fabric
- (3) Sateen Fabric

Term work

This shall consist of the Prescribed Exercises with total of minimum 10 Exercises duly recorded & certified Books: (for study & Reference Book)

Title	Author	Publisher
1. Textile Design & Colour	Watson/grossock	Longman & Green & Co. London
2. Grammer of Textile Design	Nisbet	Longman & Green & Co. London
3. Elementary Textile Design	J Reat	D.B.Tarapore wala 210, D.N.Road, Mumbai
4. Design of woven Fabrics	I.Blinor Shibabaw Belay	Textile Institute Manchestor MIR Publishers MOSCOW

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DRAWING SKETCHING AND PAINTING II

THEORY :

1. Study of Basic Forms and Functions as found in nature and Environment
2. Exposure to variety of 2D & 3D Design forms through observation.
3. Accidental methods of discovering forms
4. A survey of the development of drawing and painting media, Basic Rules of perspective, composition, colour.
5. Water colour, oil, Acrylic pasted, pencil, pen, & Ink Tempera -
6. Composition Figuretive and Non Figuretive.
7. Study of Traditional, Creative, abstract forms

PRACTICAL –

Design Concepts

Study of the following themes :

1. Expression of patterns created in nature object drawing, textures different techniques of sketching.
2. Understanding of the Floral, Geometric, Conversational , Art movements and styles
3. Application of colour through exercises on paper Different Mediums :
4. Water colour pen & Ink, poster colour, coloured ink, Acrylic pastel.

Term Work :

About 8 specimens be submitted in the suitable size/Repeat required for specific purpose from the item given below [Sketch Book - outdoor sketching]

Suggested Exercises in Drawing -

– Fashion drawing

1. Make ten quick sketches of figures with sketch pen in different postures and dresses.
2. Illustrate six figures in colour with different dresses.
3. Trace a figure in nude from magazine and dress in four different outfits- short dress with collar, full length sleeveless round neck dress. Checked & striped dress-importance of design & pattern
4. Illustrate birds and butterflies in natural surroundings in water colour, suitable for children wear in 6'square.
5. Make study of any fabric-both printed and plain, illustrate in colour a figure with a dress of the same fabric. Importance should be given to drape of the fabric the light and shade in folds, on a half imperial sheet.
6. Make study of any printed fabric and illustrate in colour four different outfits for which you think the print is suitable on a full imperial sheet.
7. Three figures in a composition with bold lines with backdrop of tie and dye effect. Work on a

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half imperial sheet.

8. Opaque two figures in tones of gray and black. In the background show a woven design in colour work on a half imperial sheet.
9. Compose five figures on a half imperial sheet using collage only
10. Compose five figures on a half imperial sheet using collage only for the figure with a plain background.
11. Compose four figures on a half imperial sheet in black lines with a coloured background of optical illusion.
12. Stylish figures & paint in 3/4 colour work on a half imperial sheet
13. Compose silhouettes figure with a black line and fill with dots, lines waves and zig zag lines. Work with only black ink on half imperial sheet.
14. Compose figures in perspective on a half imperial sheet giving importance for the basic proportion with a sheet giving importance to the basic proportion with a black sketch pen.

DRAWING SKETCHING AND PAINTING - I & II LIST OF BOOKS

1. Quick sketching = by Carl Cheek
2. How to draw and paint = by Stan Smith
3. More-Trees-by Walter T. Foster
4. A free-hand-painting drawing-by Adelaide Sproul
5. Drawing Animals-by Victor Perard.
6. Perspective of Artists-by Edward Laning.
7. Sketeches Abroad-by Mary & Hicks
8. Beautiful Tree of India-by Charles McCann
9. Starting to paint still-life -by Bernard Dunstan.
10. Roman Lettering for students by James Bostock
11. Fundamentals of Drawing - by K.R.Gopalkrishna.
12. Techniques of Interior Design Rendering & Presentation-by Sid Delmar Leach Asid.
13. Painting with Markers by-Emile Troise & Otis Porl.
14. World of Peacocks-by Mena Ajit Desai.
15. Object/Drawing - by Rashikala Parikh & K. Shah
16. Geometry - by Rashikala Parikh & K. Shah
17. Learning to paint- by Bernard Dunstan
18. Roopa Samhita - I II III edition-by Vasudeo Smart
19. The Encyclopedia of Fashion by - Georgina O'Hara
20. Fashion illustration Today/by-Mikhailas Drake
21. Fashion and Surrealism by-Richard Martin

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HISTORY OF TEXTILE DESIGN AND AESTHETICS - I

THEORY :-

The history of Textile Art in India

1. Pre history art and culture
2. Prete history art and culture
3. Early history art and culture
4. Historic period
5. Modern period

- (a) Traditional textile weaving, printing and Dyeing, embroidery
- (b) Their historic background
- (c) Method of working
- (d) Replicas essays.

PRACTICALS :-

Visits to museums and Art exhibition.

Books :-

1. The costumes and Textiles of India By Jamila Brihbhuana
2. Hindu Religion Costumes of monmens By P.Thomas
3. The Arts and Crafts of India and Pakistan By Shanti Swarup
4. Kalamkary By Shethana
5. Kalamkary By Vavdrajan
6. Hamage to Kalamkary, Marg publication
7. Masterpiec os of Indian Textiles Hand-spun-Handweven Traditional By R.J.Mehta
8. Indian Printed Textiles All India Handiorafts Board, Govt. of India
9. Indian pigment painting on cloth By Key Talwar of Kalyankrishna
10. Indian Magazine (monthly), Bombay.

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TRADITIONAL PRINTING DESIGN - I

THEORY :-

1. Study of Different decorative Motifs and Creative forms-Floral, Geometric, Conversational, Ethnic, Art-Movements and period styles as Designing point of view.
2. Study of design concept with their Functional Applications.
3. Exposure to variety of 2 Design & Design Forms through observation.
4. Colour Rendering Technique in Different Medium.
5. Visualisation of design Concepts, printing & weaving on different basis suitable for different end uses.

PRACTICAL –

Practical Assignment Contents : Developing design for :-

1. Apparel - [children, teenagers, Middleage- for summer and winter wear covering every aspect of each kind]
2. Coordinated Furnishing [Curtain, upholstery, Floor covering]
3. Coordinated Linen [Bed sheets, bed covers, table cloth, napkins, towels]
4. Accessories - [Wall hanging, cushions, Lamp shades, Partitions]

Term Work:- About Practical Assignment Contents :

About 8 specimens be submitted in the suitable size/ Repeat required for specific purpose.

Books :- Ref :

1. Traditional Indonesian Textiles by Barry Dawsan
2. Printing on cotton at Ahmedabad by Paul Schwartz
3. Principles of Cotton printing by D.G.kale
4. Dyes and Fabrics by Joyce storey
5. Folk and Tribal Designs of India by- Enakshi Bhavnani
6. The use of Colour in Interiors by Alberro Halse
7. Textile Design by Laxmi Shavaki
8. A- Monograph on silk Fabrics by A yusuf Ali
9. World of peacocks by Mena Ajit Desai
10. Hand book of decorative Design and ornament by Mary Jean Alexande