

# **SEMESTER -1**

## CC1 – STUDY OF TEXTILES

**Credits- 4T+2P**

### **Course Objectives:**

To provide working knowledge of textile, the best utilisation of available fabric resources, the awareness of its property, suitability for a particular use to every student. This course is aimed to empower the student with various way to enhance aesthetic and functional value of textile material for fashion industry. Students will be able to understand and apply the acquired knowledge in their designs.

### **Course Outcomes (CO):**

Sl	Course Outcome
1	Remember & Understand different types of Textile materials available in the market and their uses.
2	Understand various kinds of fabrics ,their structure, properties and the utility.
3	Understand Textile dyeing, printing and finishing techniques and
4	Apply dyeing & Printing techniques on fabric samples to add aesthetic value to it
5	Remember & Understand various traditional hand embroidery techniques of India, and Apply this techniques for surface ornamentation of fabric samples
6	Apply different embellishment techniques on different samples for value addition to it

### **Theory –BFDM(T) 101**

CO	Blooms Level (if applicable)	Modules	%age of questions
CO1	1,2	Module 1	20
CO2	1,2	Module 2	30
CO3	1,2	Module 3	25
CO4	2,3	Module 4	25
			<b>100</b>

### **Practical –BFDM 191**

CO	Blooms Level (if applicable)	Modules	%age of questions
CO1			
CO2			
CO3			
CO4			
CO5	2,3	Module 5	50
CO6	2,3	Module 6	50
			<b>100</b>

### **Detailed Course Curriculum:**

#### **Module I (4 Hours)**

**Introduction to Textiles and classification of fibres** according to source – Natural and Manmade. Identification and properties of Textile fibres- Cotton, Silk, Wool, Linen, Rayon (regenerated), Acetate, Polyester, Nylon and Acrylic.

## **Module II (12 Hours)**

**Process of yarn formation** – hand spinning, mechanical – ring spinning and modern- open end spinning.  
Yarn classification – simple and novelty yarns, characteristics, properties and uses of different yarn.

**Method of fabric construction:** Weaving- Basic weaves- plain, satin, twill and their variations. Fancy weaves- pile, dobby, jacquard, extra warp and weft figure, leno, crepe and double cloth.

Other method of fabric construction- knitting, braiding, lace and felt. Non-woven fabrics and their applications.

## **Module III (8 Hours)**

**Finishes given to fabrics-** definition, importance to the consumer, classification according to durability and function. singeing, scouring, bleaching, mercerization calendaring, sizing, de-sizing, brushing, carbonizing, crabbing, fulling, heat setting, shearing, weighting, stentering, napping.

Special Finishes and Treatments- water repellent and water proof finishes, antistatic finish, anti-slip finish, flame retardant finishes, crease resistant finishes, durable press and shrink resistant finishes.

## **Module IV (8 Hours)**

**Dyeing-** Stages of dyeing- fibre stage, yarn dyeing, fabric, cross, union dyeing and product stage. Method of dyeing- batch dyeing, reel dyeing, jig dyeing and package dyeing.

**Printing-** Direct roller printing, block printing, duplex printing, discharge printing, screen printing- flat and rotary, resist, batik and tie-dye.

## **Module V 20 Hours (10 Hours Training + 10 Hours Practice)**

**Embroidery-**Embroidery tools and techniques, embroidery threads and their classification, selection of threads, needle and cloth, tracing techniques, ironing and finishing of embroidered articles.

Basic Hand Embroidery. Basic and two variations of running stitch, back stitch, stem stitch, chain stitch, lazy daisy stitch, buttonhole stitch, feather stitch, herringbone stitch, knot stitch, satin stitch and cross stitch.

Traditional Embroidery- Origin, application & colours. Kantha, Chikan, Kasuti, Zardosi (Four variations), Kutch and Mirror work (Two variations).

## **Module VI 20 Hours (10 Hours Training + 10 Hours Practice)**

### **Surface Embellishment**

Printing & Painting techniques: –origin and applications -Block printing, Kalamkari and Patachitra.

Dyeing and weaving techniques:-Ikats, Patola, Bhandini, Laharia, Shibori, Brocade weave and Carpet weaving.

Special embellishment techniques: Batik - splash, t-janting, crackled, Tie and dye - lehariya, bandini, shibori, sunray and marbling, Block printing - vegetable block and wooden blocks, Applique (2 methods), quilting (2 methods), Smocking - Chinese smocking (2 methods), honey comb, gathered with embroidery, Fabric painting (4 methods), hand, Stencil- dabbing and spraying.

## **Suggested readings:**

1. Fiber to fabric., B.T.Corbman, Mc.Graw Hill
2. From fiber to fabrics, E.gale,Allman& Sons Ltd.
3. Fiber Science and their selection., Wingate, Prentice hall
4. Encyclopedia of textiles., Editors of American fabric magazine.
5. Textiles., Hollen.N., Macmillan publishing company.
6. Murphy.W.S.,Textile Finishing, Abhishek Publications, Chandigarh.
7. Indian Tie-Dyed Fabrics, Volume IV of Historic Textiles of India. Merchant: Celunion Shop
8. Traditional Indian Textiles., John Gillow/Nocholas Barnard, Thames & Hudson.
9. Surface design for fabric, Richard M Proctor/Jennifer F Lew, University of Washington Press.
10. Art of Embroidery: History of style and technique, Lanto Synge,Woodridge
11. The Timeless Embroidery, Helen M, David & Charles.
12. Readers Digest, Complete guide to Sewing,1993, Pleasant ville-Nu Gail L,Search Press Ltd.

13. Barbara. S, Creative Art of Embroidery, London, Numbly Pub.group Ltd.
14. Shailaja N, Traditional Embroideries of India., Mumbai APH Publishing.

## **CC2 – COMPUTER BASICS AND ITS APPLICATION IN DESIGN FUNDAMENTALS**

**Credits- 4T+2P**

### **Course Objectives:**

To introduce and familiarize students with the elements and principles of design along with color theory and its application in design as a whole. To represent concepts using the above and to explore the same in the area of fashion design.

### **Course Outcomes (CO):**

Sl	Course Outcome
1	Remember & Understand the Elements of Design
2	Remember & Understand the Principles of Design
3	Remember and understand Colour Theory
4	Understand how to Apply design elements and principles in fashion and garment industry.
5	Understand the basics of MS-Office and learn to Apply in Design elements and principles
6	Remember and understand CorelDraw software and learn to Apply in fashion & garment industry

### **Theory-BFDM(T) 102**

CO	Blooms Level (if applicable)	Modules	%age of questions
CO1	1,2	Module 1	25
CO2	1,2	Module 2	25
CO3	1,2	Module 3	25
CO4	2,3	Module 4	25
			<b>100</b>

### **Practical- BFDM 192**

CO	Blooms Level (if applicable)	Modules	%age of questions
CO1	1,2	Module 1	20
CO2	1,2	Module 2	10
CO3	1,2	Module 3	10
CO4	2,3	Module 4	20
CO5	2,3	Module 5	20
CO6	2,3	Module 6	20
			<b>100</b>

### **Detailed Course Curriculum:**

#### **Module I (8 hours Theory + 10 hours Practical)**

##### **Elements of Design:**

Types of Design- structural and decorative.

Design elements - form, shape, space, line, colour and texture.

## **Module II (14 Hours) (6 hours Theory + 8 hours Practical)**

### **Principles of Design:**

Principles of design – balance -formal, informal and radial, proportion, emphasis, rhythm and harmony.

## **Module III (14 Hours) (6 hours Theory + 8 hours Practical)**

**Colour theory-** Prang colour system & Munsell. Colour wheel- primary, secondary and tertiary. Colour Dimensions-Hue, Value and Chroma, Tint, tone, shade, Colour harmony- Related & contrasting colour harmonies & its sub divisions.

## **Module IV (10 hours) (6 hours Theory + 4 hours Projects)**

### **Application in Fashion Design:**

Use of elements and principles of design in clothing, according to body shapes.  
Application of colour in clothing. Seasonal colours. Colour Psychology.  
Explore using human figure illustrations.

## **Module V (14 Hours Practical)**

### **Microsoft Office:**

- **Microsoft Word-** Familiarizing with Microsoft Word-Typing, editing & designing the document, alignment of pictures with text, illustrating elements & principles of designs with MS Word
- **Microsoft Excel -** Introduction to MS excel: Inserting formula, formatting worksheet, preparing cost sheet of garments using Excel
- **Microsoft PowerPoint-**Working in Microsoft PowerPoint - animation in PowerPoint, slide transition in PowerPoint & presentation, creative presentation with PowerPoint.

## **Module VI (14 Hours Practical)**

**CorelDraw:** Getting started with Corel Draw, how to illustrate the inside features of garments, how to produce technical drawing of a garment highlighting details, how to make Specification sheets, Illustrating Colour wheel using CorelDraw.

(Nodes, Paths, tools for precision, colours, fills, working with texts, working with layers, symbols, clip arts, bitmaps)

### **Suggested readings:**

1. Elements of design and apparel design., Sumathy. G. New Age International Pvt. Ltd, 2002.
2. Art and Fashion in Clothing Selection, M.C. Gimsely and Harriot. T., Nova State Uty. Press, New York.
3. Fashion Design (Process, Innovation & Practice), Kathryn Mckelvey & Janine Munslow
4. Color Harmony – A guide to creative color combinations, Hideaki Chijiwa, Rockport Publishers
5. The Complete Color Harmony, Tina Sutton and Bride M. Whelan, Rockport Publishers

## **AECC 1: ENGLISH COMMUNICATION (BFD 164)**

### **Course Objective:**

The course is designed to develop the student's communicative competence in English by giving adequate exposure in the four communication skills - LSRW - listening, speaking, reading and writing and the related sub-skills, thereby, enabling the student to apply the acquired communicative proficiency in social and professional contexts.

### **Course Outcome:**

<b>Sl</b>	<b>Course Outcome</b>	<b>Mapped modules</b>
1	Students will be able to Remember & Understand the basic concepts of the usage of English grammar & vocabulary in communication.	M1

2	Students will be able to Comprehend facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating the main ideas given in written texts.	M1,M2
3	Students will be able to Synthesise and Apply acquired linguistic knowledge in producing various types of written texts	M1, M3
4	Students will be able to Comprehend facts and ideas from aural inputs and Synthesise and Apply acquired linguistic knowledge in giving spoken response	M1, M4

### Syllabus:

Module Number	Content	Total Hours	%age of questions	Blooms Level (if applicable)	Remarks (If any)
M 1	Functional grammar & Vocabulary	2	10	1,2	
M 2	Reading Skills	2	20	1,2	
M 3	Writing Skills	8	40	2,3,4,	
M 4	Listening & Speaking Skills	8	30	2,3,4	
		<b>20</b>	<b>100</b>		

### Detailed Course Curriculum:

**Paper: English Communication**

**Code:**

**Contact Hours / Week: 2L**

**Credits: 2**

**Module 1: Functional Grammar & Vocabulary:** Tense: Formation and application; Affirmative / Negative / Interrogative formation; Modals and their usage; Conditional sentences; Direct and indirect speech; Active and passive voice; usage of common phrasal verbs, synonyms & antonyms.

1L + 1T

**Module 2: Reading Skills:** Comprehension passages; reading and understanding articles from technical writing. Interpreting texts: analytic texts, descriptive texts, discursive texts; SQ3R reading strategy.

1L + 1T

**Module 3: Writing Skills:** Writing business letters - enquiries, complaints, sales, adjustment, collection letters, replies to complaint & enquiry letters; Job applications, Résumé, Memo, Notice, Agenda, Reports – types & format, E-mail etiquette, advertisements

4L + 4T

### Module 4: Listening & Speaking

Listening: Listening process, Types of listening; Barriers in effective listening, strategies of effective listening

Speaking: Presentations, Extempore, Role-plays, GD, Interview

4L + 4

### Suggested readings:

1. Bhatnagar, M & Bhatnagar, N (2010) Communicative English for Engineers and Professionals. New Delhi: Pearson Education.

2. Raman, M & Sharma, S (2017) Technical Communication. New Delhi: OUP.
3. Kaul, Asha (2005) The Effective Presentation: Talk your way to success. New Delhi: SAGE Publication.
4. Sethi, J & Dhamija, P.V. (2001), A Course in Phonetics and Spoken English. New Delhi: PHI.
5. Murphy, Raymond (2015), English Grammar in Use. Cambridge: Cambridge University Press