

# **BACHELOR OF COSTUME DESIGN AND FASHION**

**SYLLABUS: 2017-18 Onwards**



**Dr. N.G.P ARTS AND SCIENCE COLLEGE (Autonomous)**  
(Re-Accredited with A Grade by NAAC)  
(Affiliated to Bharathiar University,)  
Dr. N.G.P. Nagar - Kalapatti Road  
Coimbatore-641 048

## **BACHELOR OF COSTUME DESIGN AND FASHION REGULATIONS**

### **ELIGIBILITY**

A candidate who has passed in Higher Secondary Examination with any Academic stream or Vocational stream as one of the subject under Higher Secondary Board of Examination and as per the norms set by the Government of Tamil Nadu or an Examination accepted as equivalent thereto by the Academic Council, subject to such conditions as may be prescribed thereto are permitted to appear and qualify for **the Bachelor of Costume Design and Fashion** Degree examination of this College after a course of study of three academic years.

### **OBJECTIVES OF THE COURSE**

The Curriculum is designed to attain the following learning goals which students shall accomplish by the time of their graduation:

1. To educate the students about textiles and garment industries
2. To train the students with technical knowledge in textiles/fashion designing and manufacturing processes
3. To enhance creativity in fashion designing and to develop entrepreneur skills
4. To impart managerial and merchandising abilities

## SCHEME OF EXAMINATION

Course	Subject	Hrs of Ins	Exa m Dura tion (Hrs)	Max Marks			Credit Points
				CA	CE	Total	
First Semester							
Part- I							
17UTL11T/ 17UHL11H/ 17UML11M/ 17UFL11F	Tamil-I/ Hindi-I/ Malayalam-I/ French-I	5	3	25	75	100	3
Part- II							
17UEG12E	English-I	5	3	25	75	100	3
Part- III							
17UCF13A	Core - I: Fashion Designing	3	3	20	55	75	3
17UCF13B	Core - II: Apparel Designing	3	3	20	55	75	3
17UCF13P	Core Practical - I: Fashion Designing	4	3	30	45	75	2
17UCF1AP	Allied Practical – I: Apparel Designing	8	3	30	45	75	4
Part- IV							
17UFC 1FA	Environmental Studies	2	2	-	50	50	2
		30				550	20
Second Semester							
Part- I							
17UTL21T/ 17UHL21H/ 17UML21M/	Tamil-II/ Hindi-II/ Malayalam-II/	5	3	25	75	100	3

*Signature*  
10/01/2018

BoS Chairman/HoD  
Department of Costume Design & Fashion  
Dr. N. G. P. Arts and Science College  
Coimbatore - 641 048

*Signature*  
Dr. P. R. MUTHUSWAMY  
PRINCIPAL  
Dr. NGP Arts and Science College  
Dr. NGP - Kalapatti Road  
Coimbatore - 641 048  
Tamilnadu, India

**B. Sc Costume Design and Fashion (students admitted during 2017- 18)**

17UFL21F	French-II						
<b>Part- II</b>							
17UEG22E	English-II	5	3	25	75	100	3
<b>Part- III</b>							
17UCF23A	Core -III: Sewing Technology	4	3	20	55	75	4
17UCF23P	Core Practical -II: Pattern Making and Grading	6	3	30	45	75	3
17UCF23Q	Core Practical - III: Fashion Illustration	4	3	30	45	75	2
17UCF2AA	Allied theory - II: Pattern Making and Grading	4	3	20	55	75	4
<b>Part- IV</b>							
17UFC2FA	Value Education- Human Rights	2	2	-	50	50	2
		<b>30</b>				<b>550</b>	<b>21</b>
<b>Third Semester</b>							
<b>Part- III</b>							
17UCF33A	Core - IV: Textile Science	4	3	20	55	75	4
17UCF33B	Core -V: Fashion Concepts	4	3	20	55	75	4
17UCF33P	Core Practical - IV: Textile Science	4	3	30	45	75	2
17UCF33Q	Core Practical - V: Surface Embellishment	4	3	30	45	75	2
17UCF3AA	Allied theory - III: Computers in the garment industry	4	3	20	55	75	4
17UCF3SP	Skill based Practical - I : Children's Apparel	6	4	40	60	100	3
17UFC34T	Industrial Training *	-	-	-	50	50	4
<b>Part- IV</b>							

**B. Sc Costume Design and Fashion (students admitted during 2017- 18)**

	NMEC- I	2	2	-	50	50	2
17UFC3FA/ 17UFC3FB/ 17UFC3FC/ 17UFC3FD	Basic Tamil / Advanced Tamil / Value Education (Yoga for Human Excellence) / Women's Rights	2	2	-	50	50	2
		<b>30</b>				<b>625</b>	<b>27</b>
<b>Fourth Semester</b>							
<b>Part- III</b>							
17UCF43A	Core - VI: Fabric Construction	4	3	20	55	75	4
17UCF43B	Core - VII: Traditional Textiles and Costumes of India	4	3	20	55	75	4
17UCF43P	Core Practical - VI: Fabric Construction	4	3	30	45	75	2
17UCF43Q	Core Practical - VII: Draping	4	3	30	45	75	2
17UPA4AE	Allied theory -IV: Business Management	4	3	25	75	100	4
17UCF4SP	Skill based Practical-II: Women's Apparel	6	4	40	60	100	3
<b>Part IV</b>							
	NMEC- II	2	-	-	50	50	2
17UFC4FA/ 17UFC4FB/ 17UFC4FC	Basic Tamil / Advanced Tamil /General Awareness	2	2	-	50	50	2
		<b>30</b>				<b>600</b>	<b>23</b>
<b>Fifth Semester</b>							
<b>Part III</b>							
17UCF53A	Core - VIII: Textile Finishes	6	3	20	55	75	6
17UCF53B	Core - IX: Textile Processing and Dyeing	4	3	20	55	75	4

**B. Sc Costume Design and Fashion (students admitted during 2017- 18)**

17UCF53P	Core Practical - VIII: Men's Apparel	6	4	40	60	100	3
17UCF53Q	Core Practical- IX: Textile Processing and Dyeing	4	3	20	55	75	2
17UCF5EA/ 17UCF5EB/ 17UCF5EC	Elective- I	4	3	25	75	100	4
17UCF5SP	Skill based subject- III: Computer Aided Designing -I	6	3	30	45	75	3
17UCF53V	Mini project**	-	-	-	50	50	4
<b>TOTAL</b>		<b>30</b>				<b>550</b>	<b>26</b>
<b>Sixth Semester</b>							
<b>Part III</b>							
17UCF63A	Core - X: Textile Printing	4	3	20	55	75	4
17UCF63P	Core Practical - X : Textile Printing	4	3	30	45	75	2
17UCF63Q	Core Practical - XI: Accessory Designing	4	3	30	45	75	2
17UCF6EA/ 17UCF6EB/ 17UCF6EC	Elective- II	4	3	25	75	100	4
17UCF6ED/ 17UCF6EE/ 17UCF6EF	Elective- III	4	3	25	75	100	4
17UCF63V	Project - Fashion Portfolio Presentation (Project with Viva voce)	4	-	30	45	75	2
17UCF6SP	Skill based subject- IV: Computer Aided Designing -II	6	3	30	45	75	3

**B. Sc Costume Design and Fashion (students admitted during 2017- 18)**

<b>Part V</b>							
17UEX65A	Extension Activity	-	-	50	-	50	2
		<b>30</b>				<b>625</b>	<b>23</b>
TOTAL						3500	140

## Total Credit Distribution

Subjects	Credits	Total		Total	Cumulative
Part I: Tamil	3	2*100	200	06	12
Part II: English	3	2*100	200	06	
Part III:					
Core theory	3	2*75	150	06	114
	4	7*75	525	28	
	6	1*75	75	06	
Core Practical	2	9*75	675	18	
	3	1*75	75	03	
	3	1*100	100	03	
Industrial training	4	1*50	50	04	
Mini project	4	1*50	50	04	
Project	2	1*75	75	02	
Elective	4	3*100	300	12	
Allied Theory	4	2*75	150	08	
	4	1*100	100	04	
Allied Practical	4	1*75	75	04	
Skill based subject	3	2*75	150	06	
	3	2*100	200	06	
Part IV:					
Value Education	2	3*50	150	06	12
Environmental Studies	2	1*50	50	02	
NMEC	2	2*50	100	04	
Part V:					
Extension Activity	2	1*50	50	02	02
Total			3500	140	140



**ELECTIVE- I**

(Student shall select any one of the following subject as Elective in fifth semester)

S. No	Subject Code	Name of the Subject
1.	17UCF5EA	Garment quality and cost control
2.	17UCF5EB	Home Textiles
3.	17UCF5EC	Design Thinking

**ELECTIVE- II**

(Student shall select any one of the following subject as Elective in sixth semester)

S. No	Subject Code	Name of the Subject
1.	17UCF6EA	Apparel Marketing and Merchandising
2.	17UCF6EB	Principles of Textile Testing
3.	17UCF6EC	Fashion merchandising

**ELECTIVE- III**

(Student shall select any one of the following subject as Elective in sixth semester)

S. No	Subject Code	Name of the Subject
1.	17UCF6ED	International trade and documentation
2.	17UCF6EE	Introduction to technical textiles
3.	17UCF6EF	Retail management

### NON MAJOR ELECTIVE COURSE

1. The Department offers the following two papers as Non Major Elective Course for other department students.
2. Student shall select the following subject as Non Major Elective Course during their third and fourth semester

S. No	Semester	Course Code	Course Title
1.	III	17UNM34H	Basics of fashion
2.	IV	17UNM44H	Body Language and Personal Grooming

### FOR COURSE COMPLETION

#### Students should complete:

1. Language (Tamil/Malayalam/French/Hindi) and English papers in I and II semesters.
2. Environmental Studies in I semester and papers of Value Education in II,III and IV semesters.
3. Allied papers in I - IV semesters.
4. Non Major Elective Course in III and IV semesters respectively.
5. Elective papers in the V and VI semesters.
6. Extension activity in VI semester.

\*An industrial training in the month of May at the end of II semester for 15 days in any of the fashion/textile/apparel/processing units.

\*\*Mini project in the V semester related to fashion/ textile/ apparel/ processing field.

**Earning Extra credits is not mandatory for course completion**

**Extra credits**

<b>S.No</b>	<b>Subject</b>	<b>Credit</b>	<b>Total credits</b>
1	BEC/ Self study courses	1	1
2	Hindi / French/ Other foreign Language approved by certified Institutions	1	1
3	Type Writing / Short Hand Course	1	1
4	Diploma/certificate/CPT/ ACS Inter/ NPTEL Course	1	1
5	Representation – Academic/Sports /Social Activities/ Extra Curricular / Co-Curricular activities at University/ District/ State/ National/ International	1	1
<b>Total</b>			<b>5</b>

**Rules:**

The students can earn extra credits only if they complete the above during the course period (I to V sem) and based on the following criteria. Proof of Completion must be submitted in the office of the Controller of Examinations before the commencement of the VI Semester. (Earning Extra credits are not mandatory for Course completion)

1. Student can opt BEC course/ Self study course to earn one credit. They have to Enroll and complete any one of the course during their course period before fifth semester (I sem to V sem).

Self study paper offered by Costume Design and Fashion  
Department

S. No.	Semester	Course Code	Course Title
1.	I sem To	17UCFSS1	Body Language and Personal Grooming
2.	V sem	17UCFSS2	Care and Maintenance of Textiles

2. Student can opt Hindi/ French/ Other foreign Language approved by certified Institutions to earn one credit. The certificate(Hindi) must be obtained from Dakshina Bharat Hindi Prachar Sabha and He/ she has to enroll and complete during their course period ( first to fifth semester)
3. Student can opt for Type writing /short hand course to earn one extra credit. He/she has to enroll and complete the course during their course period to obtain certificate through Tamil Nadu Board of Technical Education
4. Student can opt for Diploma/certificate/CPT/ACS Inter/ NPTEL Course to earn one extra credit. Student who opt for Diploma/ Certificate course have to enroll any diploma/certificate course offered by Bharathiar University through our Institution. Student who opt for CPT/ ACS/CMA have to enroll and complete the foundation level during the course period. Students who opt for

NPTEL course should complete the course certificate through NPTEL.

5. Award Winners in Academic/ Representation in Sports /Social Activities/ Extra Curricular/ Co-Curricular Activities at University/ District/ State/ National/ International level can earn one extra credit.

17UCF13A	CORE - I: FASHION DESIGNING	SEMESTER - I
----------	-----------------------------	--------------

**PREAMBLE:**

1. To understand the fashion design concepts
2. To know criteria for designing garments

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical in the construction of garment.

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	Apply the design and its types and analyze the knowledge of elements of design , principles of design and various types of fashion accessories.	K3 , K4
CO2	Organize various color theories and dimensions and apply the principles of color in garment design and standardized color harmonies	K3
CO3	Summarize the Factors influencing fashion change	K3
CO4	Role of fashion designers and types of designers in Fashion industry	K4
CO5	Fashion cycle and adoption of fashion theory	K5 , K6

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	S	S
<b>CO2</b>	S	S	S	S	S
<b>CO3</b>	S	S	S	S	S
<b>CO4</b>	S	S	S	S	S
<b>CO5</b>	S	S	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**

17UCF13A	CORE - I: FASHION DESIGNING	SEMESTER - I
----------	-----------------------------	--------------

**TOTAL CREDITS:3**

**HOURS / WEEK:3**

### **CONTENT**

#### **UNIT - I**

Definition and origin of fashion. Types of design- structural and decorative design. Elements of design- line, shape or form, colour, size and texture. Application of elements of design in a dress. Principles of design- balance, rhythm, emphasis, harmony and proportion. Application of principles of design in a dress.

#### **UNIT - II**

Colour- definition, colour theories- prang colour chart and munsell colour system, dimensions of colour- hue, value and intensity. Standard colour harmonies- application in dress design. Colour in principles of design- application of the same in dress design.

#### **UNIT - III**

Factors influencing fashion change- Psychological factors- social factors, seasonal factors, economical factors, legal factors, technological factors, political factors, role of costume as a status symbol, personality and dress, cloth as sex appeal, cultural value.



#### **UNIT- IV**

Fashion show- types- formal, designers trunk show, department fashion show and informal fashion show. Steps to be done before conducting fashion show. Fashion designers- types- classicist, idealist, influenced, realist and thinking poet. Role of fashion designers in the industry.

#### **UNIT- V**

Fashion cycle- Fashion evaluation- length of cycle, consumer groups in fashion cycle, fashion leaders, fashion innovators, fashion motivators, fashion victims, fashion followers. Adoption of fashion- Trickle down, trickle up, trickle across theory. Fashion forecasting- Aim of fashion forecasting.

#### **TEXT BOOKS:**

1. *John Peacock*, 2005. *The Complete Fashion Source Book*.  
Thames and Hudson, London.
2. *Sumathi G J*, 2002. *Elements of Fashion Apparel Design*. 1<sup>st</sup> Edition,  
New Age International Pvt Ltd.

#### **REFERENCE BOOKS:**

1. *Tracy Diane and Tom Cassid*, 2005. *Colour Forecasting*. Om Books International.
2. *Charlotte Mankey Calasibetta and Phyllis Tortora*, 2005. *Dictionary of Fashion*.  
Om Books International

<b>17UCF13B</b>	<b>CORE -II: APPAREL DESIGNING</b>	<b>SEMESTER- I</b>
-----------------	------------------------------------	--------------------

**PREAMBLE:**

1. Basic sewing.
2. Style variations.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical in the construction of garment.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Basic Apparels and apparel categories demonstrate the seams and seam finishes.	K3
<b>CO2</b>	Explain and apply the definition and types of fullness, facings and bindings in garment construction.	K2 , K3
<b>CO3</b>	Summarize the characteristics of a good placket, types of plackets and construct the types of plackets in garment construction.	K2 ,K3
<b>CO4</b>	Demonstrate and develop the types of sleeves and yokes	K2 , K3
<b>CO5</b>	Categorize the definitions of collars and pockets, types of collars and pockets.	K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	S	S
<b>CO2</b>	S	S	S	S	S
<b>CO3</b>	S	S	S	S	S
<b>CO4</b>	S	S	S	S	S
<b>CO5</b>	S	S	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**

17UCF13B	CORE -II: APPAREL DESIGNING	SEMESTER- I
----------	-----------------------------	-------------

**TOTAL CREDITS:3**

**HOURS / WEEK:3**

#### **UNIT - I**

Introduction to apparels, apparel categories- women's wear, men's wear, children's wear (clothing categories, size, ranges, styling and prize).  
Seams and seam finishes- types, working of seams and seam finishes.  
Hems- types, stitches used.

#### **UNIT - II**

Fullness- definition, types. Darts, tucks, pleats, flares, godets, gathers, shirrs, frills or ruffles and flounces. Facings - bias facing, shaped facing and decorative facing. Binding - single bias binding, double bias binding.

#### **UNIT - III**

Plackets - definition, characteristics of a good placket, types - inconspicuous plackets and conspicuous plackets. Method of constructing the same. Fasteners - conspicuous (button and button-holes, button loops, button with holes, shank buttons, eyelets and cords). Inconspicuous (press buttons, hooks and eyes, zips).

#### **UNIT - IV**

Sleeves- definition, types- set-in-sleeves- plain sleeve, puff sleeve, bishop sleeve, bell, circular. Modified armhole- squared armhole, cap sleeve and magyar sleeve. Sleeve and bodice combined- raglan, kimono and

dolman. Yokes- definition, types, simple yoke, yoke with fullness within the yoke, yoke supporting/ releasing fullness.

## **UNIT - V**

Collars- definition, types- peter pan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, chinese, turtle neck, shawl collar. Pockets- definition, types- patch pocket, bound pocket, pocket in a seam, front hip pocket. Assembling of the garments- men's, women's and children's.

### **TEXT BOOKS:**

1. *Premlata Mullik*, 2002. Garment Construction Skills. First Edition, Kalyani Publishers.
2. *Zarapker K. R*, 2014. Zarapker System of Cutting. Navneet Publications India Ltd.

### **REFERENCE BOOKS:**

1. *Gayatri Verma*, 2003. Cutting and Tailoring Course (Illustrated). Asian Publishers.
2. *Gayatri Verma*, 1999. Cutting and Tailoring Theory. Asian Publishers.

17UCF13P	CORE PRACTICAL - I: FASHION DESIGNING	SEMESTER- I
----------	---------------------------------------	-------------

Total Credits: 2  
Hours / Week:4

**PREAMBLE:**

1. To understand the fashion design concepts
2. To know criteria for designing garments

**CONTENTS**

Illustrate and practice colour theories and garment designs

1. Prepare the following charts
  - a) Prang colour chart
  - b) Value chart
  - c) Intensity chart
2. Creating illustrations with various garment styles for men, women and children- for casual wear, party wear and sports wear.
3. Illustrate garment designs for the elements of design
  - a) Line
  - b) Shape or form
  - c) Color
  - d) Size
  - e) Texture
4. Illustrate and apply principles of design and color harmonies in a garment
  - I. Principles of design
    - a) Balance
    - b) Harmony

- c) Emphasis
  - d) Proportion
  - e) Rhythm
5. Color harmonies
- a) Monochromatic
  - b) Analogous
  - c) Complementary
  - d) Double complementary
  - e) Split complementary
  - f) Triad
  - g) Tetrad
  - h) Neutral.
6. Developing illustrations from the pictures of magazine. Analyzing a normal figure into fashion figure- front and back pose to be done using pictures from magazines.

**TEXT BOOKS:**

1. *Bina Abbing*, 1987. Fashion Sketch Book. Fair Child Publications, New York Wardrobe.
2. *Sumathi .G. J*, 2002. Elements Of Fashion Apparel Design- 1<sup>st</sup> Edition. New Age International (Pvt Ltd).

**REFERENCE BOOKS:**

1. *John Peacock*, 2005. The Complete Fashion Source Book. Thames and Hudson, London.
2. *Tracy Diane and Tom Cassid*, 2005. Colour Forecasting. Om Books International.

<b>17UCF1AP</b>	<b>ALLIED PRACTICAL -I: APPAREL DESIGNING</b>	<b>SEMESTER -I</b>
-----------------	---	--------------------

**Total Credits:4  
Hours / Week:8**

**PREAMBLE:**

1. Basic sewing.
2. Style variations.

**CONTENTS**

1. Preparation of samples for seams and seam finishes
  - A. Seam
    - (i) Plain seam
    - (ii) Top stitched seam
    - (iii) Flat fell seam
    - (iv) French seam
    - (v) Mantua maker seam
    - (vi) Piped seam.
  - B. Seam finishes
    - (i) Pinked finish
    - (ii) Edge stitched finish
    - (iii) Double stitch finish
    - (iv) Overcast finish
    - (v) Herringbone finish
    - (vi) Bound seam edge finish.
2. Preparation of samples for hems
  - (i) Seam binding hem
  - (ii) Stitched and turned hem



- (iii) Catch stitched hem
- (iv) Narrow machine stitched hem
- (v) Rolled or whipped hem
- (vi) Shell edged hem

3. Preparation of samples for fullness(ANY 3)

- (i) Darts
- (ii) Tucks
- (iii) Pleats
- (iv) Flares
- (v) Godets
- (vi) Gathers and Shirrs
- (vii) Frills /Ruffles

4. Preparation of samples for facing and binding

A. Facing (ANY 1)

- (i) Shaped facing
- (ii) Bias facing.

B. Binding (ANY 1)

- (i) Single bias binding
- (ii) Double bias binding

5. Preparation of samples for plackets and fasteners(ANY 2)

A. Plackets

- (i) Continuous bound
- (ii) Bound and faced placket
- (iii) Zipper placket
- (iv) Tailored Placket

B. Fasteners (ANY 2)

- (i) Button and Button hole
- (ii) Button loops
- (iii) Snaps / press button
- (iv) Hook and eye

6. Preparation of samples for sleeve(ANY 2)

- (i) Plain sleeve
- (ii) Puff sleeve (any one type)
- (iii) Raglan sleeve
- (iv) Circular Sleeve
- (v) Cap sleeve

**TEXT BOOKS:**

1. *Premlata Mullik*, 2002. **Garment Construction Skills**. First Edition, Kalyani Publishers.
2. *Mary Mathews*, 1986. **Practical Clothing Construction-Part I and II**. Cosmic Press, Chennai.

**REFERENCE BOOKS:**

1. *Gayatri Verma*, 2003. **Cutting and Tailoring Course (Illustrated)**. Asian Publishers.
2. *Gayatri Verma*, 1999. **Cutting and Tailoring Theory**. Asian Publishers.

17UCF23A	CORE - III: SEWING TECHNOLOGY	SEMESTER- II
----------	-------------------------------	--------------

**PREAMBLE:**

1. To understand the importance of sewing machines and functions.
2. To know the production unit process.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical in the construction of garment.

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	Construct about stitch and seam classification, Know the essential qualities	K2
CO2	Examine about lower and upper threading of sewing machines , stitching mechanisms of sewing machine, loops and loop spreader, Types of feeding and mechanisms	K3
CO3	Spreading technology of garment industry, marker plan, requirements of marker planning. Utilize the marker efficiency in fabric cutting, Importance of grain line	K4
CO4	Explain the definition and function of fabric cutting , the cutting .	K2
CO5	Various types of pressing in textiles industry and types of sewing threads	K3 , K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	S	S
<b>CO2</b>	S	S	S	S	S
<b>CO3</b>	S	S	S	S	S
<b>CO4</b>	S	S	S	S	S
<b>CO5</b>	S	S	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**

17UCF23A	ALLIED – I: SEWING TECHNOLOGY	SEMESTER- II
----------	-------------------------------	--------------

**Total Credits: 4**

**Hours / Week: 4**

### **UNIT - I**

Sewing machineries- classification of sewing machines, Single needle machine, double needle machine, over lock machine, flat lock machine, bar tacking machine, button hole making machine, button fixing machine, blind stitching machine. Feeding mechanisms- drop feed, differential feed, needle feed, compound feed, unison feed, puller feed.

### **UNIT - II**

Stitching mechanism- needles, bobbin and bobbin case, bobbin winding, loops and loop spreader, threading finger, upper and lower threading, auxiliary hooks, throat plates, take-ups, tension discs- upper and lower thread tension, needle threader. Special attachments - pressure foot and its types, adjustments of sewing machines- tension, stitch length, pressure and pressure foot, needle changing.

### **UNIT - III**

Spreading- types, qualities, equipments, tools and its methods. Marking - methods - manual and computerized, types of markers, efficiency of a marker plan, requirements of marker planning.

### **UNIT - IV**

Cutting technology- definition, function. Cutting tools- scissors, dress making shears, pinking shears, buttonhole scissors, electric scissors. Cutting machines - straight knife cutting machine, rotary cutting

machine, band knife cutting machine, die cutters and notches. Preparation of fabric for cutting- importance of grain in cutting and construction, steps in preparing the fabric for cutting.

## **UNIT - V**

Stitches, definition, standards of stitches, stitch classification, Application of various stitches in apparels, defects and remedies of stitches used in apparel industry. Sewing threads- types, essential qualities of a sewing thread. Needle, types and sizes of needle and its usage. Pressing equipments- purpose, pressing equipments and methods- iron, steam press, steam air finisher, steam tunnel, special types- pleating, permanent press.

## **TEXT BOOKS:**

1. *Mary Mathews*, 1986. Practical Clothing Construction- Part I and II. Cosmic Press, Chennai.
2. *Harold Carr and Barbara Latham*. 1994. The Technology of Clothing Manufacture. Blackwell Science Publishers.

## **REFERENCE BOOKS:**

1. *Gerry cooklin T.B*, 2005. Introduction to Clothing Manufacture. Blackwell Science Publishers.
2. *Dorothy Wood*, 2000. How to Sew. South Water Publishers.

17UCF23P	CORE PRACTICAL II- PATTERN MAKING AND GRADING	SEMESTER - II
----------	--	---------------

Total Credits:3  
Hours / Week:6

**PREAMBLE:**

1. Knowledge about drafting,
2. Pattern making and its techniques.

1. Drafting the Pattern

Drafting a Basic Bodice Front ,

Drafting a Basic Bodice Back,

Drafting a Sleeve,

Drafting a Skirt,

Drafting a Collars

2. Preparation of pattern for the following

Pattern a Bodice Front,

Pattern a Bodice Back,

Pattern a Sleeve,

Pattern a Collars,

Pattern a Skirts.

3. Layouts.

Folds – Bold design,

Checks and Stripes,

Asymmetric designs,

one way design,

Dove tailing.

4. Darts manipulation methods:

Styles created by shifting of blouse darts ,

Adding fullness to the bodice,

Converting darts to seam and partial yokes

Incorporating darts into seams forming yokes.

5. Pattern alterations:

General principles for pattern alteration,

Common pattern alteration in a blouse

**REFERENCE BOOKS:**

1. ZARAPKAR system of cutting.



17UCF23Q	CORE PRACTICAL – III: FASHION ILLUSTRATION	SEMESTER- II
----------	---	--------------

Total Credits:2  
Hours / Week:4

**PREAMBLE:**

1. Different techniques and sketching medium.
2. Basics of fashion sketching.

**CONTENTS**

1. Lines and line drawings- object drawing and perspective view drawings, enlarging and reducing motifs.
2. Learning the usage of various drawing and sketching mediums- pencils, ink, charcoal, brushes and poster colors
3. Drawing head, hands, legs and feet in different angles.
4. Learning various types of hair styling.
5. Illustrating different type of ornaments and accessories.
6. Dividing the figure into various parts using lines like plumb line, center front line, princess line, waistline, side seam, armholes, jewel neckline, panty line, bust line.
7. Practicing the art of creating textures.
8. Basic concept and types of silhouette.
9. Proportion study- 8 1/2 and 10 head theory- stick, block and flesh figures for men and women.
10. Drawing the stylized figures of men, women and children (using 10 heads or 12 heads).
11. Illustrating pattern details- pockets, sleeves, yokes, skirts, trousers, tops.
12. Illustrating details of ruffles, cowls, shirring, smocking, quilting, draping, gathers, pleats, frills and flounces.

**TEXT BOOKS:**

1. *Ireland Patrick John*, 2005. Fashion Design Illustration: Children. Om Book International.
2. *Bina Abbing*, 1987. Fashion Sketch Book. Fair Child Publications, New York Wardrobe.

**REFERENCE BOOKS:**

1. *Patrick John*, 2005. Fashion Design Illustration: Men. Om Book International.
- Raviraj*, 2007. Pencil Shading – Basic Techniques. [New](#) Century Book House (P) Ltd.

17UCF2AA	<b>ALLIED - II : PATTERN MAKING AND GRADING</b>	<b>SEMESTER- II</b>
----------	---	---------------------

**PREAMBLE:**

1. To understand the importance of body measurements.
2. To know the types of pattern making.
3. To explain the fitting and grading.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical in the construction of garment.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Explain the importance of body measurements and understand the length and girth measures in ladies/gentlemen and the preparation of fabric for cutting.	K2
<b>CO2</b>	Show the definition, types and methods of pattern making and illustrate the basic bodice and sleeve pattern.	K2
<b>CO3</b>	Develop the styles created by shifting of blouse darts and explain the standards of a good fit and the solving fitting problems in a blouse.	K2 , K3
<b>CO4</b>	Outline the pattern alteration and its importance and develop the definition and types of pattern grading to the graded patterns of basic bodice and sleeve.	K2 , K3

<b>CO5</b>	Explain the definitions and purpose of pattern layout and its types and examine the layouts for asymmetric, fabric with bold design and one way designs.	<b>K2</b>
------------	--	-----------

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	S	S
<b>CO2</b>	S	S	S	S	S
<b>CO3</b>	S	S	S	S	S
<b>CO4</b>	S	S	S	S	S
<b>CO5</b>	S	S	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**

17UCF2AA	ALLIED - II : PATTERN MAKING AND GRADING	SEMESTER- II
----------	---	--------------

**Total Credits:4**

**Hours / Week:4**

### **UNIT - I**

Pattern making- Definition, pattern production terms, measuring techniques- Introduction, measurement chart and tools required for measuring process. Body measurement- importance, preparing for measuring, children, women and men's measurements. Standardizing body measurements- importance and techniques, different standards of measurements.

### **UNIT - II**

Pattern making- method of pattern making (drafting and draping), merits and demerits. Types of paper patterns (patterns for bespoke and commercial patterns).

Principles of pattern drafting- pattern details, steps in drafting basic bodice blocks (front and back) and sleeve blocks, collar blocks, cuff blocks and skirt blocks. An introduction to computerized pattern making.

### **UNIT - III**

Grading- definition, principles of grading- master and basic grades- back, front, sleeve, collar, cuff and facing. Styles of grading- grading of skirt, trousers, jacket and waist coat. Selecting a grading system- multitruck grading and a simplified system. An introduction to computerized grading.

#### **UNIT - IV**

Fitting- standards of a good fit, steps in preparing a garment for fitting, checking the fit of a garment, solving fitting problems in a garment, fitting techniques, different types of fit- classic fit, slim fit, super slim fit.

#### **UNIT - V**

Pattern alteration - importance of altering patterns, general principles for pattern alteration, common pattern alteration in various garments. Styles created by shifting of darts, adding fullness to the bodice, converting darts to seam and partial yokes and incorporating darts into seams forming yokes.

#### **TEXT BOOKS:**

1. *Mary Mathews*, 1986. Practical Clothing Construction- Part I and II. Cosmic Press, Chennai.
2. *Zarapker. K. R*, 2014. Zarapker System of Cutting. Navneet Publications India Ltd.

#### **REFERENCE BOOKS:**

1. *Helen Joseph Armstrong*, 2006. Pattern Making for Fashion Design. Library of Congress-In-Publication Data.
2. *Martin M Shoben*, 1987. Pattern Cutting and Making Up. CBS Publishers and Distributors P (Ltd).

<b>17UCF33A</b>	<b>CORE - IV: TEXTILE SCIENCE</b>	<b>SEMESTER - III</b>
-----------------	-----------------------------------	-----------------------

**PREAMBLE:**

1. To analyse the different types of fibres, yarn and nonwovens.
2. To know about manufacturing process of various fibres, yarn and nonwovens.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical skill in the textile science.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Classify the fibres, yarns and its characteristics	K2
<b>CO2</b>	Explain the manufacturing process, properties and uses of natural fibres	K2
<b>CO3</b>	Explain the manufacturing process, properties and uses of man-made fibres	K2
<b>CO4</b>	Summarize the various process of spinning	K2
<b>CO5</b>	Outline the manufacturing of non woven, types and application	K2

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	M	S	S
<b>CO2</b>	M	S	M	S	S
<b>CO3</b>	M	S	M	S	S
<b>CO4</b>	M	S	M	S	S
<b>CO5</b>	M	S	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**



17UCF33A	<b>CORE – IV: TEXTILE SCIENCE</b>	<b>SEMESTER - III</b>
----------	---------------------------------------	-----------------------

**Total Credits: 4  
Hours / Week:4**

## **CONTENTS**

### **UNIT - I**

Introduction to the field of textiles- classification of fibres- natural and man-made- primary and secondary characteristics of textile fibres. Yarn classification- definition, classification- simple and fancy yarns, yarn count and types of yarn package.

### **UNIT - II**

Manufacturing process, properties and uses of natural fibres- cotton, linen, jute, pineapple, hemp, silk, wool and hair fibers.

### **UNIT - III**

Manufacturing process, properties and uses of Man-made fibres - viscose rayon, acetate rayon, nylon, polyester, bamboo and acrylic.

### **UNIT - IV**

Spinning- definition, classification- chemical and mechanical spinning- ginning, blending, opening, cleaning, carding, drawing, combing, roving, spinning. Chemical spinning- melt, dry, wet.

## UNIT - V

Process sequence in manufacturing of non wovens- types of non-wovens, manufacturing of non-woven fabrics- mechanical bonded, chemical bonded, thermal bonded, spun bonded and melt blown. Application of non-woven fabrics.

### TEXT BOOKS:

1. *Corbmann.B.P*, 1985. **Textiles- Fibre to Fabric: International Student's Edition**. McGraw Hill Book Company, Singapore.
2. *Barker. A.F*, 2007. **Handbook of Textiles**. Abhishek Publications, Chandigarh.
3. *Kaplam .N.S*, 2002. **A Practical Guide to Fibre Science**. Abhishek Publications, Chandigarh

### REFERENCE BOOKS:

1. *Gordon Cook.J*, 2001. **Handbook of Textile Fibres: Natural Fibre Volume I**. Woodhead Publishing Limited.
2. *Gordon Cook.J*, 2001. **Handbook of Textile Fibres: Manmade Fibre Volume II**. Woodhead Publishing Limited.
3. *Arthur Price Pizzuto.J.J*. 1994. **Fabric Science- 6<sup>th</sup> Edition**. Fairchild Publications.

<b>17UCF33B</b>	<b>CORE -V: FASHION CONCEPTS</b>	<b>SEMESTER - III</b>
-----------------	----------------------------------	-----------------------

**PREAMBLE:**

1. To understand the fashion concept, trimmings and different accessories used.
2. To know and apply the different stages of designing.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in fashion concept.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	To remember and understand the Principles of Fashion Design and Fashion Design Elements.	K2
<b>CO2</b>	To apply fashion design presentation and fashion design process	K3
<b>CO3</b>	To analyse the Stages of design process	K4
<b>CO4</b>	To Define and understand the types of accessories used in fashion designing.	K2
<b>CO5</b>	To apply the different types of Trimmings used in designing	K3

## MAPPING WITH PROGRAMME OUTCOMES

COS/POS	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	M	M
CO2	S	S	M	M	M
CO3	S	S	M	M	M
CO4	S	S	M	M	M
CO5	S	S	M	M	M

**S- STRONG, M- MEDIUM, L- LOW**

17UCF33B	CORE -V: FASHION CONCEPTS	SEMESTER - III
----------	---------------------------	----------------

**Total Credits: 4**

**Hours / Week: 4**

## **CONTENT**

### **UNIT - I**

Principles of Fashion Design - Aesthetic Value , Principles of Aesthetic .  
Fashion Design Elements - How to Achieve Good & Creative Design ,  
Line and Direction, Shape and Silhouette, Texture , Fabric Patterns ,  
Colours

### **UNIT - II**

Fashion Design Presentation - Graphical Skills , IT Skills - Use of  
Computer Aided Design, Presentation Skills. Fashion Design Process -  
Introduction, Translate Observations into Inspirations , The Purpose and  
Importance of Using Sketch Books

### **UNIT - III**

Stages of design process First stage - Analyze the Design Brief, Second  
stage - Research Inspiration, Third stage - Research inspiration, Creative  
Process Production of Prototype, Evaluation of Collection

### **UNIT - IV**

Definition and types of Accessories used in Fashion Designing, Hats,  
Hand bags, Footwear, Scarf, Shawls, Ties, Fabric Bows, Belts, Jewellery

### **UNIT - V**

Trimmings – Threads, Elastics, Interfacings, Narrow fabrics- laces,  
embroidery, ribbons, braids and cords, Fasteners-zippers, buttons, hook  
and loop, Belts

**REFERENCE BOOKS:**

1. *Gayatri Verma*, 2003. **Cutting and Tailoring Course (Illustrated)**. Asian Publishers.
2. *Mary Mathews*, 1986. **Practical Clothing Construction- Part I and II**. Cosmic Press, Chennai.

<b>17UCF33P</b>	<b>CORE PRACTICAL - IV: TEXTILE SCIENCE</b>	<b>SEMESTER III</b>
-----------------	---	---------------------

**Total Credits: 2**  
**Hours / Week: 4**

**PREAMBLE:**

1. Fibre identification.
2. Testing the properties of fibre, yarn and fabric.

**CONTENTS**

1. Identification of textile fibres- cotton, linen, jute, wool, silk, rayon, nylon, polyester.
  - a) Microscopic method
  - b) Flame test.
  - c) Chemical test.
2. Determining the yarn count by
  - a) Wrap reel.
  - b) Beesley's balance.
3. Determining the twist of the yarn using twist tester.
4. Determining the strength of the yarn by lea strength tester.
5. Determining the weight of the fabric.
6. Determining the fabric count by
  - a) Raveling method
  - b) Pick glass method
7. Course length and loop length of knitted fabric.
8. Color fastness to water.
9. Tearing strength test
10. Bursting strength test.

**TEXT BOOKS:**

1. *Corbmann.B.P*, 1985. **Textiles- Fibre to Fabric- International Student's Edition**. McGraw Hill Book Company, Singapore.
2. *Barker.A.F*, 2007. **Handbook of Textiles**. Abhishek Publications, Chandigarh.
3. *Kaplan.N.S*, 2002. **A Practical Guide to Fibre Science**. Abhishek Publications, Chandigarh.

**REFERENCE BOOKS:**

1. *Gordon Cook.J*, 2001. **Handbook of Textile Fibres- Natural Fibre Volume I**. Wood Head Publishing limited.
2. *Gordon Cook.J*, 2001. **Handbook of Textile Fibres- Manmade Fibre volume II**. Wood Head Publishing Limited.
3. *Arthur Price Pizzuto .J.J*, 1994. **Fabric science 6<sup>th</sup>- Edition**. Fairchild Publications.



17UCF33Q	<b>CORE PRACTICAL – V: SURFACE EMBELLISHMENT</b>	<b>SEMESTER - III</b>
----------	--	-----------------------

**Total Credits: 2**

**Hours / Week: 4**

### **CONTENTS**

#### **PREPARE SAMPLES FOR THE FOLLOWING**

1. Basic stitches- flat stitches- running stitch, back stitch, stem stitch, satin stitch, couching stitch, cross stitch, herringbone stitch.
2. Loop stitches- chain stitch, magic chain stitch, lazy-daisy stitch, button hole stitch, blanket stitch, fishbone stitch, feather stitch, fly stitch.
3. Knotted stitches- french knot stitch, double knot stitch, bullion knot stitch.
4. Applique work
5. Mirror work.
6. Smocking.
7. Combining various textures for Embroideries.
8. Traditional embroidery
  - a. Embroidery of Kashmir,
  - b. Phulkari of Punjab,
  - c. Gujarat- Kutch embroidery,
  - d. Embroidery of Rajasthan,
  - e. Kasuti of Karnataka,
  - f. Chickenkari of Lucknow,
  - g. Kantha of Bengal.

**TEXT BOOKS:**

1. *Shailaja D. Naik*. 2010. **Traditional Embroideries of India**. Ashish Publishers
2. *Mary Mathews*, 1986. **Practical clothing construction-** Part I and II, Cosmic Press, Chennai.

**REFERENCE BOOKS:**

1. *Mummi Srivastava*. 2003. **Embroidery Techniques From East And West**.Trafalgar Square Publiser.
2. *Jan Messent*, 1976. **Designing For Needlepoint And Embroidery From Ancient And Primitive Sources**. Macmillan Publishers.

17UCF3AA	<b>ALLIED - III: COMPUTER IN THE GARMENT INDUSTRY</b>	<b>SEMESTER III</b>
----------	---	---------------------

**PREAMBLE:**

1. Basic knowledge about computerized machineries.
2. Computer Aided Designing.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge about the usage of computers in garment industry.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLE DGE LEVEL</b>
<b>CO1</b>	Classify the computers; know its generations and specification, organization of computer sections and its storage.	K3
<b>CO2</b>	Role of computers in fashion industry functions of CAD, CAM, CIM, CAA, PPC and Computerized colour matching system.	K2
<b>CO3</b>	Textile designing, Creating embroidery designs, Garment designing, 2D and 3D forms.	K3
<b>CO4</b>	Brief knowledge about CAD in pattern making and grading	K3
<b>CO5</b>	Computer application in fabric defect checking, laying/spreading, cutting marker planning, labelling. Computerized sewing machines and Recent developments of computers in fashion industry.	K3

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	S	S
<b>CO2</b>	S	S	S	S	S
<b>CO3</b>	S	S	S	S	S
<b>CO4</b>	S	S	S	S	S
<b>CO5</b>	S	S	S	S	S

**S - STRONG   M - MEDIUM   L - LOW**

<b>17UCF3AA</b>	<b>ALLIED - III: COMPUTER IN THE GARMENT INDUSTRY</b>	<b>SEMESTER - III</b>
-----------------	---	-----------------------

**Total Credits: 4  
Hours / Week: 4**

### **CONTENTS**

#### **UNIT - I**

Classification of computers, computer generations, computer specification, organization of computer sections. Types of storage devices (primary and secondary), input devices, output devices.

#### **UNIT - II**

Role of computers in fashion industry- Information flow- CAD, CAM, CIM, CAA, PPC- definition and functions. Computerized colour matching system.

#### **UNIT - III**

Textile designing- weaving, knitting and printing. Creating embroidery designs. Garment designing- 2D and 3D forms.

#### **UNIT - IV**

CAD in pattern making and grading- system description- information flow- process involved in pattern making, process involved in pattern grading.

## UNIT-V

Computer application in fabric defect checking, laying/spreading, cutting, marker planning, labelling- parts and functions. Computerized sewing machines. Recent developments of computers in fashion industry.

### TEXT BOOKS:

1. *Harold Carr and Barbara Latham*, 1994. **The Technology of Clothing Manufacture**. Blackwell Ltd.
2. *Sheela John.R and Amsamani.S*, 2013. **Computers in the Garment Industry**. Ganesh Shankar D, Siva Salapathy Printers, Coimbatore.

### REFERENCE BOOKS:

1. *Mahadevan.M.G*, 2008. **Textile Robotics and Automation**. Abhishek Publishing.
2. *Balagurusam.E*, 2009. **Fundamentals of Computers**. Tata McGraw Hill Publishing.

17UCF3SP	<b>SKILL BASED PRACTICAL – I: CHILDREN’S APPAREL</b>	<b>SEMESTER - III</b>
----------	--	-----------------------

**Total Credits: 3  
Hours / Week: 6**

**PREAMBLE:**

1. To design, draft and construct children’s wear.

**CONTENTS**

1. Preparation of samples- yoke with fullness within the yoke, yoke supporting fullness.
2. Preparation of samples peterpan collar, full shirt collar, shawl collar.
3. Preparation of samples patch pocket, bound pocket.
4. Bib- variation in outline shape and panty-plain or plastic lined panty.
5. Jabla- without sleeve, front open (or) magyar sleeve, back open.
6. Knicker- elastic at waist, side pockets.
7. A-Line petticoat- double pointed dart, neck line and arm hole finished with facing (or) petticoat with gathered at waist.
8. Summer frock- with suspenders at shoulder line, without sleeve/collars (or) angel top with raglan sleeve, fullness at neck line.
9. Yoke frock- yoke at chest line, with open, puff sleeve, gathered skirt or frock- with collar, without sleeve, gathered/ circular skirt at waist line (or) princess line frock.

\* For contents 4 - 9

1. Designing, drafting and constructing the following garments for the feature prescribed.

2. List the measurements required and materials suitable.
3. Calculate the material required-layout method and direct measurement method.
4. Calculate the cost of the garment.

**TEXT BOOKS:**

1. *Zarapker. K. R,* 2014. **Zarapker System of Cutting.** Navneet Publications India Ltd.
2. *Winifred Aldrich,* 2009. **Metric Pattern Cutting for Children's Wear and Baby wear- 4<sup>th</sup> Edition.** John Wiley and Sons.

**REFERENCE BOOKS:**

1. *Gayatri Verma,* 2003. **Cutting and Tailoring Course (Illustrated).** Asian Publishers.
2. *Mary Mathews,* 1986. **Practical Clothing Construction- Part I and II.** Cosmic Press, Chennai.



<b>17UCF43A</b>	<b>CORE - VI: FABRIC CONSTRUCTION</b>	<b>SEMESTER - IV</b>
-----------------	---------------------------------------	----------------------

**PREAMBLE:**

1. Process involved in woven and knit fabrics.
2. Weaving mechanism and Knit structures.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in fabric construction.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Discuss the Elements of woven design, methods of fabric representation.	K2
<b>CO2</b>	Classify the Twill weave and Crepe weaves.	K3
<b>CO3</b>	Explain Ordinary and brighten honey comb, huck a back, mock leno, Extra warp and extra weft figuring and Backed fabrics.	K2
<b>CO4</b>	Explain knitting and compare weaving and knitting, warp and weft knitted fabrics. Classify warp and weft knitting	K2,K3
<b>CO5</b>	Explain Weft knitting and Warp knitting Categorize types of threading, production of nets, curtains, heavy fabrics, elasticized fabrics.	K2,k4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	M	M
<b>CO2</b>	S	S	S	M	M
<b>CO3</b>	S	S	S	M	M
<b>CO4</b>	S	S	S	M	M
<b>CO5</b>	S	S	S	M	M

**S- STRONG, M- MEDIUM, L- LOW**

17UCF43A	CORE - VI: FABRIC CONSTRUCTION	SEMESTER - IV
----------	--------------------------------	---------------

**Total Credits: 4**  
**Hours / Week: 4**

## CONTENTS

### UNIT - I

Elements of woven design, methods of fabric representation, draft – types – straight, skip, pointed, grouped draft and lifting plan. Plain, warp rib, weft rib and matt rib.

### UNIT - II

Twill weave– classification- continuous, pointed/ Zigzag, rearranged twill (satin, sateen and corkscrew weaves), combination, broken and transposed twill. Crepe weaves- types.

### UNIT - III

Ordinary and brighten honey comb, huck a back, mock leno. Extra warp and extra weft figuring- single and double colours. Backed fabrics –warp and weft backed fabrics.

### UNIT - IV

Introduction to knitting, comparison of weaving and knitting, classification of warp and weft knitting, comparison of warp and weft knitted fabrics. General terms and basic knitting elements of weft and warp knitting. 3 way technique to develop design – knit, tuck, miss.

## UNIT - V

Weft knitting - Single jersey, rib, interlocks, purl, Warp knitting - lapping variations – tricot, raschel, single bar, 2 bar, multi bar machines. Types of threading, production of nets, curtains, heavy fabrics, elasticized fabrics.

### TEXT BOOKS:

1. *Murphy.W. S*, 2004. **Textile Weaving and Design**. Abhishek Publication.
2. *Lord.P.R, Mohamed.M.H*, 1973. **Weaving: Conversion of Yarn to Fabric**. Woodhead Publishing Ltd.
3. *David J spencer*, 2001. *Knitting technology: A comprehensive handbook and practical guide*. Wood head publishing.
4. *Manmeet sodhina*, 2004. *Knitting technology*. Kalyani publishers.

### REFERENCE BOOKS:

1. *Grosicki.Z.J, Watson*, 1912. **Watsons Advanced Textile Design**. Wood Head Publishing Ltd.
2. *Ashenhurst*, 2004. **Textile Calculation and Structure of Fabrics**. Abhishek Publication.
3. *A jonker. D*, 1998. *Principles of knitting*. Universal Publishing Corporation.
4. *DR.N.Albumen*, 2007. *Knitting fundamentals, machines, structures and developments*. New age international (p) Ltd., publishers.

<b>17UCF43B</b>	<b>CORE - VII: TRADITIONAL TEXTILES AND COSTUMES OF INDIA</b>	<b>SEMESTER - IV</b>
-----------------	---	----------------------

**PREAMBLE:**

1. To recall the different types of costumes used during the old ages
2. To know about the different accessories used in historic period

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in traditional textiles and costumes of India

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Relate the Indian textiles and type of costumes, symbols and ancient Indian textiles.	K2
<b>CO2</b>	Name the woven textiles of India and discuss the dyed and printed textiles of India	K2
<b>CO3</b>	Describe the traditional costume of southern and eastern India	K2
<b>CO4</b>	Restate the traditional costume of northern India	K3
<b>CO5</b>	Discuss jewellerys used in the period of Indus valley civilization and temple jewellerys of southern India.	K3

## MAPPING WITH PROGRAMME OUTCOMES

COS/POS	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	M	M
CO2	S	S	M	M	M
CO3	S	S	M	M	M
CO4	S	S	M	M	M
CO5	S	S	M	M	M

**S- STRONG, M- MEDIUM, L- LOW**

<b>17UCF43B</b>	<b>CORE - VII: TRADITIONAL TEXTILES AND COSTUMES OF INDIA</b>	<b>SEMESTER - IV</b>
-----------------	---	----------------------

**Total Credits: 4  
Hours / Week: 4**

### **CONTENTS**

#### **UNIT - I**

Beginning of costume, growth of dress out of painting, cutting. Introduction to Indian textiles and costumes - history, types, motifs and symbols. Ancient Indian textiles and costumes - Vedic, Mauryan, Kushans, Satavahanas and Gupta.

#### **UNIT - II**

Study of woven textiles of India- Dacca muslin, Banarasi, Chanderi Brocades, Baluchar, Himrus and Amrus, Kashmir Shawls, Pochampalli, Silk Sarees of Kancheepuram.

Study of dyed and printed textiles of India- Bhandhani, Patola, Ikkat, Kalamkari- in all the above types and techniques used.

#### **UNIT - III**

Traditional costume of southern and eastern India - Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orissa, Bihar, Mizoram, Nagaland, West Bengal.

#### **UNIT - IV**

Traditional costume of northern India- Maharashtra, Rajasthan, Haryana, Himachal Pradesh, Uttarpradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh.

## UNIT - V

Indian Jewellery- Jewelleries used in the period of Indus valley civilization, Mauryan period, Gupta period, Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery of south India, tribal jewellery

### TEXT BOOKS:

1. *Nigam.M.L*, 1999. **Indian Jewellery**. Lustre Press Pvt Ltd, India.
2. *Ghurye.G.S*, 1997. **Indian Costume**. Popular Books Pvt Ltd

### REFERENCE BOOKS:

1. *John Gillow , Nicholas Barnard*, 2008. **Indian Textiles**. Om Book International.
2. *Parul Bhatnagar*, 2005. **Decorative Design History in Indian Textiles and Costumes**. Abhishek Publication, Chandigarh.
3. *Vishu Arora*, 2008. **SUVASAS - The Beautified Costumes**. Abhishek Publication, Chandigarh.



<b>17UCF43P</b>	<b>CORE PRACTICAL - VI: FABRIC CONSTRUCTION</b>	<b>SEMESTER - IV</b>
-----------------	---	----------------------

**Total Credits: 2**  
**Hours / Week: 4**

**PREAMBLE:**

1. Designing, drafting and constructing various weaves and knits.

**CONTENTS**

**Identify the samples:**

1. Plain weave
2. Warp rib/weft rib
3. Twill weave (Right hand twill/Left hand twill).
4. Satin/Sateen
5. Honey comb weave
6. Huck a back weave
7. Extra warp/weft figuring.
8. Plain knit
9. Rib
10. Interlock
11. Tricot
12. Raschel – net, dress lace

**TEXT BOOKS:**

1. *Murphy.W.S,* 2004. **Textile Weaving and Design.** Abhishek Publication.
2. *Lord.P.R, Mohamed.M.H,* 1973. **Weaving: Conversion of Yarn to Fabric.** Woodhead Publishing Ltd.

**REFERENCE BOOKS:**

1. *Grosicki.Z.J, Watson,* 1912.**Watsons Advanced Textile Design.** Woodhead Publishing Ltd.
2. *Kanwar Varinder Pal Singh,* 2004. **Textile Weaving and Design.** Abhishek Publications.

17UCF43Q	CORE PRACTICAL - VII: DRAPING	SEMESTER IV
----------	-------------------------------	-------------

Total Credits: 2  
Hours / Week: 4

## CONTENTS

### 1. Basics

- a) Bodice front and back.
- b) Skirt front and back.
- c) Plain sleeve.

### 2. Skirts (Any two)

- a) Drindle.
- b) Peg.
- c) Circular.
- d) Pleated.
- e) Straight.

### 3. Necklines (Any two)

- a) Sweet heart.
- b) Scooped.
- c) Scalloped.
- d) Boat.
- e) V and U neck.
- f) Round- Halter.

### 4. Yokes (Any two)

- a) Bodice- midriff.
- b) Skirt- gathered.
- c) Bodice- shoulder.

### 5. Collars(Any two)

- a) Convertible.
- b) Mandarin.
- c) Peter pan.

- d) Turtle.
- e) Ruffled.
- f) Shawl.
- g) Cowls.

**TEXT BOOKS:**

1. *Connie Amadan Crawford*, 1989. **The Art of Fashion Draping**. Om Book International.
2. *Manmeet Sodhia*, 2004. **Advanced Drafting and Draping**. Kalyani Publishers.

**REFERENCE BOOKS:**

1. *Manmeet Sodhia*, 2001. **Dress Designing**. [Kalyani Publishers](#).
2. *Winifred Aldrich*, 2007. **Fabric Form and Flat Pattern Cutting - 2nd Edition**. Blackwell Publishers.

<b>17UBM4AB</b>	<b>ALLIED -IV: ENTREPRENEURIAL DEVELOPMENT</b>	<b>SEMESTER IV</b>
-----------------	--	--------------------

**PREAMBLE:**

1. To understand the character, function, types and factors affecting entrepreneurship
2. To identify the institutional support, projects and source of finance for entrepreneurs.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in business management.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	To know the Meaning, Characteristics, Functions and Types of entrepreneur	K2
<b>CO2</b>	To understand the Factors affecting Entrepreneurial growth	K2
<b>CO3</b>	To identify the institutional support to entrepreneurs	K2
<b>CO4</b>	To interpret the Characteristics, Classification, Identification and Selection of a project.	K3
<b>CO5</b>	To analyze the Source of finance for a project	K4

## MAPPING WITH PROGRAMME OUTCOMES

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	M	M	S	S
<b>CO2</b>	M	M	M	S	S
<b>CO3</b>	M	M	M	S	S
<b>CO4</b>	M	M	M	S	S
<b>CO5</b>	M	M	M	S	S

**S- STRONG, M- MEDIUM, L- LOW**

<b>17UBM4A B</b>	<b>ALLIED -IV: ENTREPRENEURIAL DEVELOPMENT</b>	<b>SEMESTER IV</b>
----------------------	--	--------------------

**Total Credits: 4  
Hours / Week: 4**

## **CONTENT**

### **UNIT - I**

Meaning of Entrepreneurship - Characteristics - Functions-Types of entrepreneur-Entrepreneur Vs Manager - Role of entrepreneurship in economic development-Women Entrepreneurs-Problems.

### **UNIT - II**

Factors affecting Entrepreneurial growth- Entrepreneurship Development Programmes - Need - Objectives – Course contents and Curriculum- Phases - Problems - Steps for starting a small industry.

### **UNIT - III**

Institutional support to entrepreneurs-DIC- NSIC- SIDO- SISI- SIDCO- KVIC-TCO- NPC- Industrial Estates

### **UNIT - IV**

Project- Characteristics of a project- Classification- Identification - Selection – Project life cycle phases- project formulation – Contents of a project report –Specimen of a project report - Project Appraisal methods.

### **UNIT - V**

Source of finance for a project - Institutional finance to entrepreneurs- IFCI-ICICI- IDBI- SIDBI- SIPCOT- TIIC- SFC- EXIM Bank.

**TEXT BOOKS:**

1. Khanka.S.S, 2007. Entrepreneurial Development. S.Chand & Company Ltd. New Delhi.
2. Gupta.C.B and Srinivasan.N.P, 2015. Entrepreneurial Development. Sultan Chand and Sons, New Delhi.

**REFERENCE BOOKS:**

1. Choudhury.S, 2017. Project Management. Tata McGraw Hill Publishing Co. Ltd., Chennai.



17UCF4SP	<b>SKILL BASED PRACTICAL - II: WOMEN'S APPAREL</b>	<b>SEMESTER - IV</b>
----------	--	----------------------

**Total Credits: 3**  
**Hours / Week: 6**

**PREAMBLE:**

1. Designing, drafting and constructing women's wear.

**CONTENTS**

1. Saree petticoat- six panels, decorated bottom.
2. Skirts- circular or umbrella or panel with style variations.
3. Blouse- front open, fashioned neck, waist band at front, with sleeve.
4. Salwar or Churidhar or Parallels or Bell bottom
5. Kameez- with or without slit, with or without flare, with or without opening, with or without panels, with or without yoke.
6. Nightie- with yoke, front open, with sleeve, full length.
7. Ladies pant- waist band, zip attached, tight fitting or parallel pants.
8. Short kurta or top- decorative or surface design in tailored placket, with or without collar.

**INSTRUCTIONS FOR THE ABOVE CONTENTS:**

1. Designing, drafting and constructing the following garments for the features prescribed.
2. List the measurements required and materials suitable.
3. Calculate the cost of the garment.
4. Calculate the material required- layout method and direct measurements method.

**TEXT BOOKS:**

1. *Zarapker.K.R,* 2014. **Zarapker System of Cutting.** Navneet Publications India ltd.
2. *Winifred Aldrich,* 2009. **Metric Pattern Cutting for Children's Wear and Baby Wear - 4<sup>th</sup> Edition.** John Wiley and Sons.

**REFERENCE BOOKS:**

1. *Manmeet Sodhia .T.B,* 2004. **Drafting and Draping.** Kalyani Publishers.
2. *Eshwari Anwani,* 1968. **Cutting and Tailoring Practicals- Vol II,** RB Publications.

<b>17UCF53A</b>	<b>CORE - VIII: TEXTILE FINISHES</b>	<b>SEMESTER - V</b>
-----------------	--------------------------------------	---------------------

**PREAMBLE:**

1. To understand the various finishes in textiles.
2. To know about special finishes.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in textile finishing.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Understand the production sequence of textile fabrics. Finishes- classification, importance and its application methods.	K2
<b>CO2</b>	Analyze the methods and applications of Mechanical finishes, Aesthetic finishes, Drape and Texture	K4
<b>CO3</b>	Analyze the methods and applications of Functional finishes	K4
<b>CO4</b>	Analyze the methods and applications of Special purpose finishes	K4
<b>CO5</b>	Analyze the Recent trends in finishing and Environmental pollution during chemical processing of textiles.	K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	M	M
<b>CO2</b>	M	S	S	M	M
<b>CO3</b>	M	S	S	M	M
<b>CO4</b>	M	S	S	M	M
<b>CO5</b>	M	S	S	M	M

**S- STRONG, M- MEDIUM, L- LOW**

17UCF53A	CORE - VIII: TEXTILE FINISHES	SEMESTER - V
----------	-------------------------------	--------------

**Total Credits: 6**  
**Hours / Week: 6**

## CONTENT

### UNIT - I

Production sequence of textile fabrics- flow chart- brief description.  
Finishes- classification- importance of finishes- application methods

### UNIT - II

Mechanical finishes- methods and applications. Aesthetic finishes- Luster- glazed, moiré, schreiner, embossed. Drape- crisp and transparent, burnt out, sizing, weighting. Texture- sheared, brushed, embossed, plisse, pleated, flocked, embroidered, napped, fullered.

### UNIT - III

Functional finishes- methods and applications- wrinkle free finishes, water repellant finish, flame retardant finish, rot and mildew proof finish, antistatic finish and soil release finish.

### UNIT - IV

Special purpose finishes- methods and applications- silicone finish, denim finish- stonewash and enzyme wash, fragrance finish, UV protection finish, anti bacterial finish and phase change finishes.

### UNIT - V

Recent trends in finishing- definition, types, significance and uses- micro encapsulation, nano and plasma finish. Environmental pollution during chemical processing of textiles.

**TEXT BOOKS:**

1. *Shenai.V.A, Naresh M. Saraf*, 1987. **Technology of Finishing**. Sevak Publications.
2. *Prayag.R.S*, 1994. **Textile Finishing**. R.S. Prayag.

**REFERENCE BOOKS:**

1. *Horrocks.A.R and Anand.S.C*, 2000. **Hand book of Technical textiles**. Woodhead Publishing Ltd, England.
2. **Murphy. W.S**, 2003. *Textile Finishing*. **Abhishek Publications**.

<b>17UCF53B</b>	<b>CORE-IX: TEXTILE PROCESSING AND DYEING</b>	<b>SEMESTER - V</b>
-----------------	---	---------------------

**PREAMBLE:**

1. To understand the various process in textile processing
2. To know about types of dyes and its properties .

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in textile processing and dyeing.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Analyze the water hardness and its types and to apply the water softening process, singeing , desizing, scouring, synthetic fiber heat setting	K2, K3
<b>CO2</b>	Understand the types and methods of mercerization , bleaching, wool carbonizing and silk weighting	K2, K3
<b>CO3</b>	Classify the colourants to evaluate the properties of dyes and to rectify the defects in dyeing	K2
<b>CO4</b>	Categorize the different types of dyeing machines and methods	K3
<b>CO5</b>	Apply the enzymes in textile processing and to understand the pollution and effluent treatment	K5

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	M	M
<b>CO2</b>	M	S	S	M	M
<b>CO3</b>	M	S	S	M	M
<b>CO4</b>	M	S	S	M	M
<b>CO5</b>	M	S	S	M	M

**S- STRONG, M- MEDIUM, L- LOW**



<b>17UCF53B</b>	<b>CORE-IX: TEXTILE PROCESSING AND DYEING</b>	<b>SEMESTER - V</b>
-----------------	---	---------------------

**Total Credits: 4**  
**Hours / Week: 4**

### **CONTENT**

#### **UNIT - I**

Water- water hardness- types- softening process: ion exchange- lime soda process. Typical sequence of processes. Object, methods and equipments used for singeing, desizing, scouring, synthetic fibre heat setting.

#### **UNIT - II**

Mercerization- theory process- methods- chemicals- effects. Bleaching- hypo chlorites- hydrogen peroxide- sodium chlorite. Equipments and chemicals for bleaching of cotton, viscose, cotton/viscose, polyester/cotton. Wool carbonizing, weighting of silk.

#### **UNIT - III**

Dyeing- classification of colorants- fastness properties of dyes, classification of dyes- direct dye, sulphur dyes, vat dyes, disperse dyes, reactive dyes, acid dyes, basic dyes, vegetable dyes. Various defects in dyeing.

#### **UNIT - IV**

Dyeing machines- fiber, yarn, fabric and garment dyeing machines- loose stock fiber bale- hank package- jigger- winch- beam jet- padding mangles - garment dyeing - piece dyeing - dip dyeing

## UNIT - V

Application of enzymes in textile processing. Pollution- treatment of textile effluents. Techniques for effluent treatment- physical, chemical and biological methods. Zero discharge methods. Need for eco standards- eco labels and norms- need for eco testing- toxicity of dyes and chemicals.

### TEXT BOOKS:

1. *Shenai.V.A*, 1981. **Technology of Textile Processing Vol- III, V, VII.** Sevale Publications, Bombay.
2. *Prof. Krishna Kumar .K.B*, **Pollution in Textile Industry.** SSM I.TT. Komarapalayam.

### REFERENCE BOOKS:

1. *Smith.J. L*, 2006. **Textile Processing.** Abhishek Publications.
2. *Kanwar Varinder Pal Singh*, 2004. **Elementary Idea of Textile Dyeing Printing and Finishing- 1<sup>st</sup> Edition.** Kalyani Publishers.

17UCF53P	CORE PRACTICAL - VIII: MEN'S APPAREL	SEMESTER - V
----------	--------------------------------------	--------------

**Total Credits: 3**

**Hours / Week: 6**

**OBJECTIVES:**

1. To design , draft and construct the men's garment

**CONTENTS**

**Create garments with the following features**

1. S.B. Vest- with or without collar, button attached, sleeveless.
2. Full sleeve shirt- full open, shirt collar, patch pocket, full sleeve with cuff.
3. Nehru kurtha - side pocket, round neck, half open.
4. Pyjama- elastic or tape attached waist.
5. Pleated pant- pleats in front, darts at back, side pocket, fly with button or zip.
6. Night Dress- knee length, shawl collar, overlap front, with belt.
7. Boxer shorts- with / without flap, tape attached waist.

**INSTRUCTIONS FOR THE ABOVE CONTENTS:**

1. Designing, drafting and constructing the following garments for the features prescribed.
2. List the measurements required and materials suitable.
3. Calculate the cost of the garment.
4. Calculate the material required- layout method and direct measurement method

**TEXT BOOKS:**

1. *Zarapker. K. R,* 2014. **Zarapker System of Cutting.** Navneet Publications India Ltd.
2. *Gayatri Verma,* 2003. **Cutting and Tailoring Course (Illustrated).** Asian Publishers.

**REFERENCE BOOKS:**

1. *Eshwari Anwani,* 1968. **Cutting and Tailoring Practicals.** R.B. Publications, Delhi
2. *Manmmet Sodhia,* 2005. **Dress Designing.** Kalyani Publishers.

<b>17UCF53Q</b>	<b>CORE PRACTICAL - IX: TEXTILE PROCESSING AND DYEING</b>	<b>SEMESTER - V</b>
-----------------	---	---------------------

**Total Credits: 2**  
**Hours / Week: 4**

### **CONTENTS**

#### **Preparation of samples for Processing**

1. Desizing
2. Scouring
3. Bleaching
4. Mercerising
5. Degumming

#### **Dye the given fabric using suitable dye**

6. Direct Dye
7. Sulphur Dye
8. Vat Dyes
9. Disperse Dyes
10. Reactive Dyes
11. Acid Dyes
12. Basic Dyes
13. Natural Dyes

**TEXT BOOKS:**

1. *Paters.R.H*, 1970.**Textile Chemistry Vol- I, II.** Textile Institute, Manchester.
2. *Shenai.V.A*, 1981. **Technology of Textile Processing Vol- III,V,VII.** Sevale Publications, Bombay.

**REFERENCE BOOKS:**

1. *Kanwar Varinder Pal Singh*, 2007. **Elementary Idea of Textile Dyeing Printing and Finishing.** Kalyani Publishers.
2. *Smith.J. L*, 2006. **Textile Processing.** Abhishek Publications.

<b>17UCF5EA</b>	<b>ELECTIVE - I</b> <b>GARMENT QUALITY AND COST CONTROL</b>	<b>SEMESTER - V</b>
-----------------	--	---------------------

**Total Credits: 4**  
**Hours / Week: 4**

**PREAMBLE:**

1. To know about the quality aspects in different department of garment construction.
2. To understand the different standards used for quality inspection.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in garment quality and cost control

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Examine raw material quality in apparel manufacturing industry and assess the scope of quality control.	K2
<b>CO2</b>	Categorize quality specification of apparel manufacturing industry and justifying sampling plans industry with quality standards.	K2
<b>CO3</b>	Predict functions of production control and recommend to distribution of documents and records.	K3
<b>CO4</b>	Restate types of cost control forms of basic production system	K3
<b>CO5</b>	Identifying the types of cost and expensive in apparel manufacturing industry.	K3

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	M	M	S
<b>CO2</b>	M	S	M	M	S
<b>CO3</b>	M	S	M	M	S
<b>CO4</b>	M	S	M	M	S
<b>CO5</b>	M	S	M	M	S

**S- STRONG, M- MEDIUM, L- LOW**



17UCF5EA	<b>ELECTIVE - I</b> <b>GARMENT QUALITY AND COST CONTROL</b>	<b>SEMESTER - V</b>
----------	--	---------------------

**Total Credits: 4**  
**Hours / Week: 4**

### **CONTENTS**

#### **UNIT - I**

Definition and scope of quality control- establishing merchandising standards- establishing raw material quality, quality control specifications- quality control of raw material.

#### **UNIT - II**

Establishing processing quality specification- training quality control personnel- quality standard control- quality control inspection, procedures for processing- quality control of finished garments- quality control and government contacts- quality control for packaging, warehousing and shipping- statistical quality control. Sampling plans- industry- wide quality standards.

#### **UNIT - III**

Function of production control, production analysis, quality specifications, qualitative specifications, scope of apparel manufacturing activity, coordinating departmental activities, distribution of documents and records.

#### **UNIT - IV**

Type of control forms- basic production systems- whole garment, departmental whole garment, subassembly systems and progressive bundle systems, principles for choosing a production system- evaluating

production systems- flow process grids and charts- basic flow process grids construction- flow process grids for production control.

#### **UNIT-V**

Functions of cost control, types of costs and expenses. Apparel manufacturing cost categories- sales cost control, purchasing cost control, production cost control, administration cost control- cost ratio policies- the manufacturing budget- cash flow controls- standard cost sheet, break even- charts

#### **TEXT BOOKS:**

1. *Solinger, Jacob*, 1961.**Apparel Manufacturing Analysis**. Textiles Books, New York.
2. *Solinger, Jacob*, 1988.**Apparel Manufacturing Hand Book- Analysis Principles and Practice**. Columbia Media Corp.

#### **REFERENCE BOOKS:**

1. *Gerry Cooklin*, 2011. **Garment Technology for Fashion Designers- 2nd Edition**. John Wiley and Sons.
2. *Helen Goworek*, 2007. **Fashion Buying- 2nd Edition**. John Wiley and Sons.

<b>17UCF5EB</b>	<b>ELECTIVE - I FASHION MERCHANDISING</b>	<b>SEMESTER - V</b>
-----------------	---	---------------------

**Total Credits: 4  
Hours / Week: 4**

**PREAMBLE:**

1. To know the role of merchandiser in the industry
2. To understand the fashion forecasting and inspection procedures in production

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in fashion merchandising.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Discuss the role of fashion merchandiser and Write the fashion merchandising terminology.	K2
<b>CO2</b>	List out the types of merchandiser, types of display and explain branded merchandising.	K2
<b>CO3</b>	Identifying the fashion forecasting of orders procurement and compose buying house and buying agencies.	K3
<b>CO4</b>	Inspect the production follow up of garment industry and production follow up problem and parameters.	K3
<b>CO5</b>	Justify the production scheduling costing and programming and problem in CMT sub-contract of vendors rating.	K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	S	M
<b>CO2</b>	M	S	S	S	M
<b>CO3</b>	M	S	S	S	M
<b>CO4</b>	M	S	S	S	M
<b>CO5</b>	M	S	S	S	M

**S- STRONG, M- MEDIUM, L- LOW**

17UCF5EB	ELECTIVE - I FASHION MERCHANDISING	SEMESTER V
----------	------------------------------------	------------

Total Credits: 4  
Hours / Week: 4

## CONTENT

### UNIT - I

Introduction to fashion merchandising – Structure of Merchandising – Work Schedule – qualities, Skills and knowledge required for merchandising. Fashion merchandising terminology ,Role and function of merchandiser.

### UNIT - II

Types of merchandising- Visual Merchandising and display, purpose, store image;,seasonal visual merchandise, Windows and types of display, Branded merchandising.

### UNIT - III

Export House-manufacture house- buying house and buying agency. Forecasting- order procurement –Sample order execution – P.O sheet/ specification and standards .

### UNIT - IV

Yarn follow-up/ types/ quality/ parameters. Knitting follow-up and quality parameters, Fabric follow- up and fabric inspection ,Accessories follow-up and and inspection.

Production follow – up – problem and solutions. Inspection and types –AQL inspection of various styles and approval of labels. LC- types and its importance.

## **UNIT - V**

Production scheduling costing & programming, CMT calculation, problem in CMT unit. Sub-contract / evaluations, vendors rating.

Order placements – merchant order – CMT order and approvals.

### **REFERENCES BOOKS:**

1. **Fashion Design and product development** ,Harold Carr and John Pomery, Black Well science Inc Cambridge (1992)
2. **Fashion Merchandising**. Strong Elia
3. **Fashion Marketing**, Mike Easey, Oxford University press , Wyntord drive , Don Mills , Ontario (1995).

17UCF5EC	ELECTIVE - I DESIGN THINKING	SEMESTER - V
----------	------------------------------	--------------

**PREAMBLE:**

1. To apply the stages of thing in designing
2. To understand the different stages of thinking

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in design thinking.

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	Explain the stage of thinking and its benefits	K2
CO2	Develop a design brief and research about the target groups	K3
CO3	Create ideas based on design directions , various themes, inspiration and references	K6
CO4	Elaborate thinking in images ,signs, shapes, proportions and words	K6
CO5	Develop prototype and implement it according to the stages of thinking	K6

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	S	S	M	S
<b>CO2</b>	S	S	S	M	S
<b>CO3</b>	S	S	S	M	S
<b>CO4</b>	S	S	S	M	S
<b>CO5</b>	S	S	S	M	S

**S- STRONG, M- MEDIUM, L- LOW**



17UCF5EB	ELECTIVE - I FASHION MERCHANDISING	SEMESTER -V
----------	------------------------------------	-------------

**Total Credits: 4**  
**Hours / Week: 4**

## CONTENTS

### UNIT - I

Stages of thinking – design thinking introduction, benefits of design thinking, difference between traditional and design thinking. Stages of thinking-define, research, ideate, prototype, select, implement, learn.

### UNIT - II

Define - Design brief, objective, proportion. Research - identifying drivers, information gathering, target groups, sample and feedback.

### UNIT - III

Idea generation - basic design directions, themes for thinking, inspiration and references, brainstorming, inclusion.

### UNIT - IV

Refinement - thinking in images, thinking in signs, thinking in shapes, thinking in proportion, thinking in colour appropriations, thinking in words, modifications.

### UNIT - V

Prototyping- developing design, types of prototype, vocabulary. Stages of implementation.

**TEXT BOOKS:**

1. *Thomas Lockwood*, 2009. **Design Thinking: Integrating Innovation, Customer Experience, and Brand Value.** Allworth Press.
2. *Gavin Ambrose*, 2009. **Basics Design 08: Design Thinking.** Fairchild Books.

<b>17UCF5SP</b>	<b>SKILL BASED PRACTICAL- III: COMPUTER AIDED DESIGNING -I</b>	<b>SEMESTER - V</b>
-----------------	--	---------------------

**Total Credits: 3**  
**Hours / Week: 6**

### **CONTENTS**

1. Create the following designs
  - a) Motifs / small designs.
  - b) Neck lines.
  - c) Chest prints for T-shirts.
2. Children's Garments (any 5 styles among the following)

Frocks/Middi/Baba suit.

3. Women's Garments (any 7 styles among the following)

Churidhar/Full gowns/Middi and tops/Princess line  
Dress/Nighties/Saree Blouse.

4. Men's Garments (any 5 styles among the following)
5. S B vest/T- Shirt/Shirts/Kurta/Pyjama/Trousers
6. Logos for companies (any 3 designs)
6. Labels for garments (any 3 types)

**TEXT BOOKS:**

1. *Bina Abbing*, 2005. **Fashion Sketch Book**. Fair child Publications, New York wardrobe.
2. *Gary David Bouton*, 2008. **Corel Draw X4: The Official Guide**. McGraw-Hill Osborne.

**REFERENCE BOOK:**

1. *Kathryn Mckelvey and Janine Munslow*, 2007. **Illustrating Fashion - 2nd Edition**. Blackwell Publishing.
2. *John Peacock*, 2005. **The Complete Fashion Source Book**. Thames and Hudson, London.

17UCF63A	CORE - X: TEXTILE PRINTING	SEMESTER - VI
----------	----------------------------	---------------

**PREAMBLE:**

1. To know how to create printing design.
2. To learn various Printing techniques.

**COURSE OUTCOME:**

On successful completion of the course, students will be able to acquire knowledge in textile printing.

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	Learn printing, differences between printing and dyeing, preparation of fabric for printing, methods of printing, preparation of printing paste, and selection of thickening agents.	K2
CO2	Predict Direct printing -block printing, Stencil printing	K2,K3
CO3	Outline the stencil printing through various methods	K2,K3
CO4	Identify the resist printing through batik and tie and dye methods	K4
CO5	Categorize the different minor printing methods	K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	S	M
<b>CO2</b>	M	S	S	S	M
<b>CO3</b>	M	S	S	S	M
<b>CO4</b>	M	S	S	S	M
<b>CO5</b>	M	S	S	S	M

**S- STRONG, M- MEDIUM, L- LOW**

17UCF63A	CORE - X: TEXTILE PRINTING	SEMESTER - VI
----------	----------------------------	---------------

**Total Credits: 4**  
**Hours / Week: 4**

## **CONTENTS**

### **UNIT - I**

Printing- introduction to printing, differences between printing and dyeing, preparation of fabric for printing- cotton, linen, polyester, wool and silk, methods of printing, preparation of printing paste, selection of thickening agents.

### **UNIT - II**

Direct printing- block printing- history, preparation of design, blocks, table, print paste and printing process.

Stencil printing- history, preparation of fabric, stencils (for one or more colour), materials used for preparing stencils, process involved and techniques used.

### **UNIT - III**

Screen printing- history, flat, rotary and roller screen printing, preparation of screen, print paste and screen printing process.

### **UNIT - IV**

Resist printing- history, batik printing – history, wax used, equipments required, process sequence and techniques used.

Tie and dye- history, equipments required, process sequence and techniques used.

## **UNIT - V**

Minor printing methods- ink jet printing, heat transfer printing, Introduction to 3D printing.

Discharge printing- chemicals used, process involved. Recent developments in textile printing.

### **TEXT BOOKS:**

1. *Shenai .V.A, Naresh M. Saraf, 1987. Technology of Finishing, Sevak Publications.*
2. *W.S Murphy, 1994. Textile Finishing*

### **REFERENCE BOOKS:**

1. *Vidhyasagar. P.V , 2000, Hand book textiles, Woodhead publishing ltd, England.*
2. *Murphy. W.S,2003. Textile finishing, Abhishek Publication.*



17UCF63P	<b>CORE PRACTICAL - X: TEXTILE PRINTING</b>	<b>SEMESTER - VI</b>
----------	---	----------------------

**Total Credits: 2  
Hours / Week: 4**

**OBJECTIVES:**

1. Creating print design.
2. Printing textile with various techniques.

**CONTENTS**

**Prepare samples using the following techniques**

1. Block printing- vegetable and wooden blocks.
2. Stencil printing- positive and negative with single/ double/multi colours.
3. Tie and dye- any three methods with single/double/ multi colours.
4. Batik technique- any three methods with single/double/ multi colours.
5. Screen printing method- single/double/multi colours.
6. Fabric painting- dry/wet/sponging/strokes.

**TEXT BOOKS:**

1. *Hurst.G.H*, 2004. **Silk Dyeing Printing and Finishing**. Abhishek Publication.
2. *Pellew C E*, 2007. **Dyes and Dyeing**. Abhishek Publications.

**REFERENCE BOOKS:**

1. *Margo Singer*, 2007. **Textile Surface Decoration: Silk and Velvet**. A and B Publishers , London.
2. *Kanwar Varinder Pal Singh*, **Elementary Idea of Textile Dyeing, Printing and Finishing-1<sup>st</sup> Edition**. Kalyani Publishers.

17UCF63Q	CORE PRACTICAL XI: ACCESSORY DESIGNING	SEMESTER - VI
----------	---	---------------

Total Credits: 2  
Hours / Week: 4

**OBJECTIVES :**

1. Prepare the following samples using the available raw materials/any base material.

**CONTENT**

1. Hand bags .
2. Purse / Wallets/Cell phone covers.
3. Chain or Necklace.
4. Bangles/ bracelets/watches
5. Slippers/ shoes
6. Ear rings
7. Finger rings/toe rings
8. Belts
9. Hair bands
10. Anklets
11. A set of bridal ornaments.
12. A set of ornaments for fashion show garment – 4 sets

<b>17UCF6EA</b>	<b>ELECTIVE – II</b> <b>APPAREL MARKETING AND MERCHANDISING</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**Total Credits: 4**  
**Hours / Week: 4**

**PREAMBLE:**

1. To learn the Marketing concepts.
2. To understand Merchandising policies in apparel industry.

**COURSE OUTCOME:**

On successful completion of the course, students will be able to acquire knowledge in apparel marketing and merchandising.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Explain the fashion marketing, fashion Marketing environment- and trends in marketing environment.	K2
<b>CO2</b>	Apply the Marketing Function- assembling, standardization and grading, packaging, product planning and development .	K3
<b>CO3</b>	Classify and analyze the types of buyers, merchandiser and their functions.	K2 ,K3
<b>CO4</b>	Identify the Process flow in apparel industry- buyer sourcing and communication.	K4
<b>CO5</b>	Apply the Visual merchandising of fashion, types of displays, elements of display, merchandising presentation- tools and techniques.	K3, K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	M	S	S	S
<b>CO2</b>	M	M	S	S	S
<b>CO3</b>	M	M	S	S	S
<b>CO4</b>	M	M	S	S	S
<b>CO5</b>	M	M	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**

<b>17UCF6EA</b>	<b>ELECTIVE - II</b> <b>APPAREL MARKETING AND MERCHANDISING</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**Total Credits: 4**  
**Hours / Week: 4**

## **CONTENT**

### **UNIT - I**

Meaning and classification of marketing, fashion marketing, fashion market- size and structure. Marketing environment- micro and macro marketing environment, trends in marketing environment.

### **UNIT - II**

Marketing Function- assembling, standardization and grading and packaging, product planning and development, importance of fashion products, nature of fashion products. The fashion industry and new product development, product mix and range planning. Merchandising- introduction, meaning- apparel merchandising- concepts of 'six rights'- organization structure of an apparel industry- classification of exporters- rating or grading of export houses.

### **UNIT - III**

Classification of buyers- export merchandising and retail merchandising- company profile and its contents. Types of merchandiser- functions of a merchandiser- essential requisites of a good merchandiser- vendor sourcing, evaluation and development- global sourcing- vendor nomination by buyers- reasons for vendor nomination- documents recording and maintenance- claims and reasons for claims- factory audits- buyer's code of conducts.

#### **UNIT - IV**

Process flow in apparel industry- buyer sourcing and communication- enquiry- order confirmation- order review and its importance- planning and programming- master planning, scheduling or route card- factors for route card- programming for yarn, knitting, dyeing, stitching, sampling, accessories- samples- meaning and importance- types of samples- expedition of samples.

#### **UNIT - V**

Visual merchandising of fashion, types of displays- window displays, interior displays, color blocking and theme. Elements of display- the merchandise, mannequins and forms, props, signage, lighting. Merchandising presentation- tools and techniques- back drop, forms, and fixtures. Fashion show- definition, planning, budgeting, location, timings, selection of models, collection. Set design, music, preparing the commentary, rehearsal.

#### **TEXT BOOKS:**

1. *Manmeet Sodhia*. 2004. **Fashion Marketing and Merchandising**. Kalyani Publishers.
2. *Sak Onkvisit*. 2008. **International Marketing : Strategy and Theory**. Routledge Publishers.

#### **REFERENCE BOOKS:**

1. *Mary G Wolfe*. 1998. **World of Fashion Merchandising**. Goodheart-Wilcox Publisher.
2. *Mike Easey*. 1995. **Fashion marketing**. Blackwell Science Ltd.

<b>17UCF6EB</b>	<b>ELECTIVE - II</b> <b>PRINCIPLES OF TEXTILE TESTING</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**PREAMBLE:**

1. Testing standards and methods.
2. Fiber, yarn and fabric testing.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge about textile testing and its forms.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Introduction to testing its terminologies, selection of samples for testing - fibre, yarn and fabric. Standard RH and temperature for testing.	K3
<b>CO2</b>	Fiber testing- cotton fiber length, baer sorter, fineness, sheffield micronire, maturity, strength. Determination of trash and lint in cotton.	K3
<b>CO3</b>	Yarn Testing, yarn numbering system, instruments for count determination, yarn strength testing, Yarn twist, twist testers, Yarn evenness and crimp testing.	K3
<b>CO4</b>	Various forms of Fabric testing.	K4
<b>CO5</b>	Various forms Color fastness tests to fabrics.	K4

## MAPPING WITH PROGRAMME OUTCOMES

COS/POS	PO1	PO2	PO3	PO4	PO5
CO1	M	S	M	S	M
CO2	M	S	M	S	M
CO3	M	S	M	S	M
CO4	M	S	M	S	M
CO5	M	S	M	S	M

**S - STRONG    M - MEDIUM    L - LOW**



<b>17UCF6EB</b>	<b>ELECTIVE - II</b> <b>PRINCIPLES OF TEXTILE TESTING</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**Total Credits: 4**  
**Hours / Week: 4**

## **CONTENTS**

### **UNIT - I**

Introduction to testing- terminology of testing- selection of samples for testing fibre, yarn and fabric. standard R H and temperature for testing- measurement of moisture regain conditioning oven- Shirley moisture meter.

### **UNIT - II**

Fiber testing- cotton fiber length, Baer sorter, fineness, sheffield micronire, maturity, strength. Determination of trash and lint in cotton.

### **UNIT - III**

Yarn Testing- yarn numbering system, instruments for count determination, yarn strength testing, single strength tester, lea strength tester. Yarn twist, twist testers. Yarn evenness, methods of measuring evenness, yarn faults, classifications. Yarn hairiness and crimp testing.

### **UNIT - IV**

Fabric testing- fabric particulars, fabric strength, fabric abrasion, pilling testing, fabric drape, fabric stiffness, fabric crease resistance and crease recovery measurements, fabric permeability.

### **UNIT - V**

Color fastness tests- crocking, perspiration, sunlight, laundering, pressing. Grey scale, whiteness index.

**TEXT BOOKS:**

1. *Booth.J.E*, 1970. **Principles of Textile Testing**. S.K Jain CBS Publishers and Distribution.
2. *Saville.B.P*, 2000. **Physical Testing Of Textiles**. Woodhead Publishing Limited with Textile Institute Abington.

**REFERENCE BOOKS:**

1. *Angappan.P and Gopalakrishnan.R*, 2002. **Textile Testing**. SSM Institute of Textile Technology, Komarapalayam.
2. *Mishra.S.P and Kesavan.B.K*, **Fiber Science**. SSM Institute of Textile Technology, Komarapalayam.

17UCF6EC	<b>ELECTIVE - II HOME TEXTILES</b>	<b>SEMESTER - VI</b>
----------	--	----------------------

**Total Credits: 4  
Hours / Week: 4**

**PREAMBLE:**

1. Concepts of home textiles.
2. Suitable home furnishing material.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge about home textiles and its forms.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Introduction of various home textile fibers and fabrics	K2
<b>CO2</b>	Detailing about various coverings like wall coverings and floor coverings for aesthetic purpose and protection	K2
<b>CO3</b>	Brief knowledge about Door and window treatments, curtains and draperies	K3
<b>CO4</b>	Knowledge of Soft furnishing for living and bedroom its various types and products and its care advantages and disadvantages.	K3
<b>CO5</b>	Knowledge of Soft furnishing for kitchen, dining and bathroom- factors affecting its selection, use and care. Construction of Terry towels.	K3

## MAPPING WITH PROGRAMME OUTCOMES

COS/POS	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	S	S
CO2	S	S	M	S	S
CO3	S	S	M	S	S
CO4	S	S	M	S	S
CO5	S	S	M	S	S

**S - STRONG    M - MEDIUM    L - LOW**

17UCF6EC	ELECTIVE - II HOME TEXTILES	SEMESTER - VI
----------	-----------------------------	---------------

**Total Credits: 4**  
**Hours / Week: 4**

## **CONTENTS**

### **UNIT - I**

Introduction to home textiles- definition, types of home textiles (woven and non-woven's). Role of fabric in interior furnishing. Various fibers used for home textiles. Recent trends in home textiles

### **UNIT- II**

Floor and wall coverings- definition of floor covering, types of floor covering - hard, soft, and resilient floor coverings, uses and care of floor covering, definition of wall covering, uses and care of wall coverings. Benefits of Coverings.

### **UNIT - III**

Door and window treatments- definition, size and parts of door and windows, definition - curtains and draperies, materials used for curtains and draperies. Types of curtains - draw, tailored, pleated, cafe curtains, three tire curtains. Type of draperies – swags.

### **UNIT - IV**

Soft furnishing for living and bedroom- definition for living and bedroom linens, types & designs of living and bedroom linens such as sofa, sofa covers, wall hangings, cushion/cushion covers, upholsteries, bolster and bolster covers, bed sheets, covers, blankets, blanket covers, comfort and comfort covers, bed spreads, mattress and mattress covers, pillow and pillow covers, pads, uses and care advantages and disadvantages.

## UNIT - V

Soft furnishing for kitchen, dinning and bathroom- definition, types of kitchen linens, dish cloth, hand towels, fridge, mixie and grinder covers, their uses and care- definition for dinning. Bathroom linens – types, factors affecting the selection of table and bathroom linens, use and care. Construction of Terry towels.

### TEXT BOOKS:

1. *Gloria Nicol*, 2005. **Readers Digest Quick and Easy Home Sewing Projects**. Cico Books.
2. *Cheryl Mendelson*, 2005. **Home Comforts the Art and Science Keeping House**. Scriber, New York.
3. *Hanlyn Octopus*, 2001. **Cushions and Pillows- Professional Skills Made Easy**. Octopus Publishing Group, New York.

### REFERENCE BOOKS:

1. *Pat A Jomes*, 1979. **House Hold Linen**. The Singer Company.
2. *Magi Mc McCormick Gordon*, 2002. **The Ultimate Sewing Book 200 Sewing Ideas for You and Your Home**. Collins & Brown, London.
3. *Anne van Wagner*, 1993. **Childs Leisure Arts- Inc., Sew- no- more Home Décor**. Arkansas, U.S.A.

<b>17UCF6ED</b>	<b>ELECTIVE - III INTERNATIONAL TRADE AND DOCUMENTATION</b>	<b>SEMESTER - VI</b>
-----------------	---	----------------------

**PREAMBLE:**

1. To Know the types Of Import And Export Documents
2. To learn Export and Import procedures

**COURSE OUTCOME:**

On successful completion of the course, students will be able to acquire knowledge in international trade and documentation.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Outline the Firm Establishment, Export Promotion Councils, and Registration Formalities.	K2
<b>CO2</b>	Examine the Foreign Trade Documents, Letter Of Credit, and Letter Of Hypothecation- Bank Certificate for Payment- Document Relating to Inspection.	K3
<b>CO3</b>	Investigate the Import Procedure, Special Schemes- Replenishment License- Advance License.	K3, K4
<b>CO4</b>	Evaluate the Shipment and Customs, Documentation Terms, Customs Clearance of Import Cargo, Claiming Duty Drawback and Other Benefits.	K5
<b>CO5</b>	Assess the Payment and Deliveries Terms of Payment, Cost of Various Payment Terms- Assessing the Risk In Payment- Role of ECGC and Standard Policy.	K5

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	S	M
<b>CO2</b>	M	S	S	S	M
<b>CO3</b>	M	S	S	S	M
<b>CO4</b>	M	S	S	S	M
<b>CO5</b>	M	S	S	S	M

**S- STRONG, M- MEDIUM, L- LOW**



<b>17UCF6ED</b>	<b>ELECTIVE - II</b> <b>INTERNATIONAL TRADE AND</b> <b>DOCUMENTATION</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**Total Credits: 4**  
**Hours / Week: 4**

### **CONTENT**

#### **UNIT - I**

Firm Establishment Introduction- Export Promotion Councils and Their Role- Registration Formalities- RCMC- IE Code- RBI Code- Garment Classification and Categories for Various Countries- Quota- Quota Distribution Methods- Quota Transfer

#### **UNIT - II**

Foreign Trade Documents need, Rationale And Types of Documents Relating to Goods- Invoice- Packing Note and List- Certificate of Origin- Certificate Relating to Shipments- Mate Receipt- Shipping Bill- Caret Ticket- Certificate Of Measurement- Bill Of Lading- Air Way Bill- Documents Relating to Payment- Letter Of Credit- Types Of L/C- Bill Of Exchange- Letter Of Hypothecation- Bank Certificate for Payment- Document Relating to Inspection- Certificate Of Inspection- GP and Other Forms.

#### **UNIT - III**

Import Procedure- Import License- Procedure For Import License- Import Trade Control Regulation Procedure- Special Schemes- Replenishment License- Advance License- Split Up License- Spares For After Sales Service License- Code Number- Bill Of Entry.

#### **UNIT - IV**

Shipment and Customs- Preshipment Inspection and Quality Control- Foreign Exchange Formalities- Preshipment Documents- Documentation Terms- Excise and Customs Clearance of Export Cargo- Shipment of Goods and Port Procedures- Customs Clearance of Import Cargo. Post-Shipment formalities and Procedures- Claiming Duty Drawback and Other Benefits.

#### **UNIT - V**

Payment and Deliveries Terms of Delivery- INCO terms- EXW- FCA- FOB- CFR- CIF- CPT- DAF- DDP- DDU. Terms of Payment- Open Account- Cheque- Cash Payment Against Documents- Bank Payment Against Documents (LC)- Security and Cost of Various Payment Terms- Assessing the Risk In Payment- Role of ECGC and Standard Policy.

#### **TEXT BOOKS:**

1. *Paras Ram*, 1990, **Hand Book of Import and export Procedures.**  
Government of Pakistan
2. *Govt. Of India*: **Hand Book Of Import And Export Procedures.**

#### **REFERENCE BOOKS:**

1. *Bose. A.* 1965. **Streamline Your Export Paper Work**, International Trade Form.

<b>17UCF6EE</b>	<b>ELECTIVE - III</b> <b>INTRODUCTION TO TECHNICAL TEXTILES</b>	<b>SEMESTER - VI</b>
-----------------	--	----------------------

**PREAMBLE:**

- 1 Technical textiles and its application.
- 2 Various sectors of technical textiles.

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to acquire knowledge in technical textiles.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Explain the definition, types and scope of Technical textiles. Identify the Fibres used in technical textiles, technical yarns and Technical fabrics	K2 & K4
<b>CO2</b>	Discuss the definition, material used, types and uses of Agrotech , Buildtech and Clothtech	K2
<b>CO3</b>	Discuss the definition, material used, types and uses of Geotech, Hometech and Indutech.	K2
<b>CO4</b>	Discuss the definition, material used, types and uses of Mobiltech, Oekotech or Ecotech, and Packtech.	K2
<b>CO5</b>	Discuss the definition, material used, types and uses of Protech, Sporttech, Smart textiles, and Intelligent textiles.	K2

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	S	S	S	M
<b>CO2</b>	M	S	S	S	M
<b>CO3</b>	M	S	S	S	M
<b>CO4</b>	M	S	S	S	M
<b>CO5</b>	M	S	S	S	M

**S- STRONG, M- MEDIUM, L- LOW**

<b>17UCF6EE</b>	<b>ELECTIVE - III</b> <b>INTRODUCTION TO TECHNICAL</b> <b>TEXTILES</b>	<b>SEMESTER -</b> <b>VI</b>
-----------------	--	--------------------------------

**Total Credits: 4**  
**Hours / Week: 4**

### **CONTENT**

#### **UNIT - I**

Technical textiles- definition and scope of technical textiles, global and Indian scenario, classification of technical textiles. Fibres used in technical textiles, technical yarns: staple yarns, monofilament, multifilament yarns. Technical fabrics- knitted, woven, nonwoven and braided structures.

#### **UNIT - II**

Agrotech (agro-textiles)- definition, material used, types, uses. Buildtech (construction textiles)- definition, material used, types, uses. Clothtech (clothing textiles) - definition, material used, types, uses.

#### **UNIT - III**

Geotech (geo-textiles)- definition, material used, types, uses. Hometech (domestic textiles)- definition, material used, types, uses. Indutech (industrial textiles)- definition, material used, types, uses.

#### **UNIT - IV**

Mobiltech (transport, automotive and aerospace)- definition, material used, types, uses. Oekotech or Ecotech (environmentally friendly textiles)- definition, material used, types, uses. Packtech (packaging textiles)- definition, material used, types, uses.

## UNIT - V

Protech (protective textiles)- Definition, material used, types, uses.  
Sporttech (sports textiles)- definition, material used, types, uses. Smart  
textiles- definition, material used, types, uses. Intelligent textiles-  
definition, material used, types, uses.

### TEXT BOOKS:

1. *Shenai.V.A, Naresh.M.Saraf*, 1987. **Technology of Finishing**. Sevak Publications.
2. *Prayag .R.S*, 1994. **Textile Finishing**. R.S. Prayag.

### REFERENCE BOOKS:

1. *Horrocks.A.R and Anand.S.C*, 2000. **Handbook of Technical Textiles**. Woodhead Publishing Ltd, England.
2. *Murphy.W.S*, 2003. **Textile Finishing**. Abhishek Publications.

17UCF6EF	<b>ELECTIVE - III RETAIL MANAGEMENT</b>	<b>SEMESTER- VI</b>
----------	---	---------------------

**Total Credits: 4**

**Hours / Week: 4**

**PREAMBLE:**

1. To gain knowledge about retail industry
2. To understand the

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge and technical in the construction of garment.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	To understand the marketing channel, retail organization structures, retail merchandising, retailing formats	K3
<b>CO2</b>	To understand the retail locations, retail growth and expansion, international retailing and retailing advertising.	K2
<b>CO3</b>	To acquire knowledge in Brands, private labels , Merchandise resources and Trade shows.	K3
<b>CO4</b>	To analyse the financial aspects of merchandising	K3
<b>CO5</b>	To know about the Store layout and merchandise presentation.	K3

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	M	M	S	S	S
<b>CO2</b>	M	M	S	S	S
<b>CO3</b>	M	M	S	S	S
<b>CO4</b>	M	M	S	S	S
<b>CO5</b>	M	M	S	S	S

**S- STRONG, M- MEDIUM, L- LOW**



<b>17UCF6EF</b>	<b>RETAIL MANAGEMENT</b>	<b>SEMESTER VI</b>
-----------------	--------------------------	--------------------

**Total Credits: 4**  
**Hours / Week: 4**

### **CONTENT**

#### **UNIT - I**

Retail merchandising- the marketing channel, retail organization structures, retail merchandising, retailing formats- department stores specialty stores, hard- to- classify stores, depth and breadth, discounting, other retailing formats- non store retailers.

#### **UNIT - II**

Retail locations- unplanned shopping districts, planned shopping centers, the mix of stores in a shopping center. Retail growth and expansion- retail ownership. International retailing, retailing advertising.

#### **UNIT - III**

Brands and private labels- branded merchandising, licensing, private labels, private labels as brands. Merchandise resources- manufacturers, merchant wholesale- distributors. Trade shows.

#### **UNIT - IV**

The financial aspects of merchandising- measures of productivity- productivity, turnover, stock-to- sales ratio, sales per square foot,

space management. Retail pricing- markup. Markdowns, residue merchandise, maintain markup. Tactical price changes, managing markdowns, promotional pricing, deceptive pricing, resale price maintenance.

#### **UNIT - V**

Store layout and merchandise presentation- store planning and design, visual merchandising, store layout, fixtures, merchandise presentation, signs.

#### **TEXT BOOKS:**

- 1 *John Donnellan*, 1996. **Merchandise Buying and Management.** Fairchild Publications, New York.
- 2 *Ellen Diamond*, 2005. **Fashion Retailing: A Multi-Channel Approach- 2<sup>nd</sup> Editions.** Prentice Hall.

17UCF6SP	SKILL BASED SUBJECT - IV : COMPUTER AIDED DESIGNING -II	SEMESTER - VI
----------	--	---------------

Total Credits: 3  
Hours / Week: 6

**OBJECTIVES:**

2. Prepare designs/ patterns as given below

**CONTENT**

1. Application of colour harmony in design
  - a) Monochromatic colour harmony.
  - b) Analogous colour harmony.
  - c) Complementary colour harmony.
  - d) Double complementary colour harmony.
  - e) Split complementary colour harmony.
  - f) Triad colour harmony.
  - g) Tetrad colour harmony.
  - h) Neutral colour harmony.
2. Applications of principles of design in dress design
  - a) Balance- formal and informal.
  - b) Rhythm- by line movement, gradation, radiation.
  - c) Emphasis.
  - d) Proportion.
  - e) Harmony.
3. Design garments for the following.
  - a) Party wear- children/men/women.
  - b) Sportswear- children/men/women.
  - c) Fashion show- children/men/women.

- d) Winter wear- children/men/women.
- e) Summer wear children/men/women.
- f) Spring Wear- children/men/women.
- g) School uniforms (Boy and girl) - preschool/school/higher secondary.

4. Prepare pattern for the following.

- a) Bib.
- b) Jabla.
- c) Knicker.

5. Grade the following patterns.

- a) Bodice front.
- b) Bodice back.

6. Editing designs

- a) Scan designs from books/magazines/photos - Edit colour, Edit features,  
Edit back ground, Edit ornaments and accessories.

**TEXT BOOKS:**

1. *Kathryn Mckelvey, Janine Munslow*, 2007. **Illustrating fashion- 2nd Edition**. Blackwell Publishing.
2. *Laurie Ulrich Fuller, Robert C.Fuller*, 2008. **Photoshop CS3**. Willey India (P) Ltd.

**REFERENCE BOOKS:**

1. *Ireland Patrick John*, 2005. **Fashion design Illustration: Children**. Om Book International.
2. *Bina Abling*, 1987. **Fashion Sketch Book**. Fair Child Publications, New York Wardrobe.

<b>17UNM34H</b>	<b>NMEC- I BASICS OF FASHION</b>	<b>SEMESTER - III</b>
-----------------	----------------------------------	-----------------------

**PREAMBLE:**

1. To acquire knowledge about different elements and principles of design
2. To learn about colour theories, designing garments for different types of figures and wardrobe planning

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge in basics of fashion.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	Explain design and its types; name the requirements of a good design.	K2
<b>CO2</b>	Outline the elements of design and principles of design.	K3
<b>CO3</b>	Investigate prang colour system and design standard colour harmonies in dress form.	K3
<b>CO4</b>	Synthesize the designing dresses for unusual figures .	K3
<b>CO5</b>	To understand the wardrobe planning for different age groups.	K3

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	M	S	M	S
<b>CO2</b>	S	M	S	M	S
<b>CO3</b>	S	M	S	M	S
<b>CO4</b>	S	M	S	M	S
<b>CO5</b>	S	M	S	M	S

**S- STRONG, M- MEDIUM, L- LOW**

17UNM34H	NMEC- I BASICS OF FASHION	SEMESTER - III
----------	---------------------------	----------------

**Total Credits: 2**  
**Hours /Week: 2**

## **CONTENT**

### **UNIT - I**

Design- definition and types- structural and decorative design, requirements of a good structural and decorative design.

### **UNIT - II**

Elements of design- line, shape or form, colour, size and texture. Principles of design- balance, rhythm, emphasis, harmony and proportion.

### **UNIT - III**

Colour- definition, colour theories- prang colour chart, dimensions of colour- hue, value and intensity. Standard colour harmonies.

### **UNIT - IV**

Designing dresses for unusual figures- becoming and unbecoming for the following figure types- stout figure, thin figure, tall figure and short figure.

### **UNIT - V**

Wardrobe planning for different age groups, factors influencing wardrobe selection based on fashion and season. Designing dresses for different occasions- business meetings, parties, marriage functions, sports.



**TEXT BOOKS:**

1. *John Peacock*, 2005. **The Complete Fashion Source Book**. Thames and Hudson, London.
2. *Sumathi G J*, 2002. **Elements of Fashion Apparel Design**. 1<sup>st</sup> Edition, New Age International Pvt Ltd.

**REFERENCE BOOKS:**

1. *Tracy Diane and Tom Cassid*, 2005. **Colour Forecasting**. Om Books International.
2. *Charlotte Mankey Calasibetta and Phyllis Tortora*, 2005. **Dictionary of Fashion**. Om Books International.

<b>17UNM44H</b>	<b>NMEC II - BODY LANGUAGE AND PERSONAL GROOMING</b>	<b>SEMESTER - IV</b>
-----------------	--	----------------------

**PREAMBLE:**

1. To understand body language and gestures.
2. To learn about enhancing the features for different occasion

**COURSE OUTCOME:**

In the successful completion of the subject, a student will be able to get adequate knowledge about body language and personal grooming.

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
<b>CO1</b>	To discuss about Introduction, types body language	K2
<b>CO2</b>	To illustrate the different Gestures and its impact	K3
<b>CO3</b>	Importance of Body language in business , Introduction to Negotiation skills, planning and how to negotiation and importance of effective body language-	K3
<b>CO4</b>	Learn about enhancing the features	K4
<b>CO5</b>	How to Dress elegantly for different body shapes, different types of neck line, clothing style and Planning interview attire.	K4

**MAPPING WITH PROGRAMME OUTCOMES**

<b>COS/POS</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>
<b>CO1</b>	S	M	M	M	S
<b>CO2</b>	S	M	M	M	S
<b>CO3</b>	S	M	M	M	S
<b>CO4</b>	S	M	M	M	S
<b>CO5</b>	S	M	M	M	S

**S - STRONG    M - MEDIUM    L - LOW**

17UNM44H	NMEC II - BODY LANGUAGE AND PERSONAL GROOMING	SEMESTER - IV
----------	--	---------------

Total Credits : 2  
Hours / Week: 2

## CONTENTS

### UNIT - I

Introduction to body language -Different types of body language, Aggressive body language, Attentive body language - How to communicate body language.

### UNIT - II

Gestures – Smiling gestures. Hand and Arm gestures – types, steeping hands, gripping hands, arms & wrists, displaying thumb, thumb – up gestures, folded arms gesture. Hand – to – face gestures – types – hand covering the mouth , touching the nose, rubbing the eye, ear rub, scratching the neck, pulling the collar, cheek and chin gestures. Leg barriers - leg – lock portion, standing leg cross, ankle – lock gesture, foot – lock gestures.

### UNIT - III

Body language in business – space around you, hand-to – face movements . Introduction to Negotiation skills, planning and how to negotiation. Importance of effective body language- effective body language in meeting- reading body language and encouraging interaction four main aspects.

#### UNIT - IV

How to enhance the features – make – up hair care, dental care , clean body , lip balm or lip gloss , make use of cologne / perfume , manicure and pedicure , face shape , types of hair style . personal hygiene – breath , perspiration – body odour.


#### UNIT - V

Dress elegantly – body shapes , different types of neck line , clothing style . Different types of shoe, ties, glasses, sunglasses, watches and hand bags . Plan your interview attire.

#### TEXT BOOKS:

1. S. Kant, Body language, 2009, Lotus press, New Delhi.
2. Vinay Mohan Sharma, Body language. The art of reading gestures V&S Publishers, 2014 New Delhi
3. Bibhu Prasad Minshra , preparing for a Winning Interview ,2012 V&S Publishers, New Delhi
3. Mahadevan.M.G, 2008. **Textile Robotics and Automation.** Abhishek Publishing.
4. Balagurusamy.E, 2009. **Fundamentals of Computers.** Tata McGraw Hill Publishing.

  
BoS Chairman/HoD  
Department of Costume Design & Fashion  
Dr. N. G. P. Arts and Science College  
Coimbatore – 641 048

  
Dr. R.R. MUTHUSWAMY  
PRINCIPAL  
Dr. NGP Arts and Science College  
Dr. NGP - Kalapatti Road  
Coimbatore - 641 048  
Tamilnadu, India