

**KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]  
COIMBATORE - 641 029**

**B.Sc Costume Design and Fashion**

CURRICULUM & SCHEME OF EXAMINATION UNDER CBCS

**[APPLICABLE TO THE STUDENTS ADMITTED DURING THE**

**ACADEMIC YEAR 2014-2015 & ONWARDS]**

Semester	Part	Subject code	Title of the Paper	Instruction Hours / Cycle	Exam.marks			Duration of Exam. (hours)	Credits
					CIA	ESE	Total		
					₹				
I	I	13TML1A1	Lang-Tamil I @	6	25	75	100	3	3
	II	14ENG101	Lang - English I	6	25	75	100	3	3
	III	14UCD101	C.P.1 – Pattern making	5	25	75	100	3	4
		13UCD1CL	C.Pr.1– Basics of Apparel Designing	6	40	60	100	4	3
		13UCD1AL	Allied.Pr.1 Fashion Illustration	5	40	60	100	3	5
	IV	12EVS101	Environmental studies**	2	-	50	50	3	2
II	I	13TML2A2	Lang-Tamil II @	6	25	75	100	3	3
	II	14ENG202	Lang - English II	6	25	75	100	3	3
	III	14UCD202	C.P.2 – Fiber To Yarn	3	25	75	100	3	3
		14UCD203	C.P.3- Fashion Designing and Fashion Psychology	3	25	75	100	3	4
		13UCD2CM	C.Pr.2 – Apparel Designing-Kids Wear	5	40	60	100	4	3
		14UCD2AM	Allied. Pr.2. Surface Ornamentation	5	40	60	100	3	5
		14VED201	Value Based Education – Moral & ethics**	2	-	50	50	3	2
III	III	14UCD31T	£ 2 weeks Internship Training in garment unit	Grade					
		14UCD304	C.P.4– Weaving	5	25	75	100	3	4
		14UCD305	C.P.5 – Garment Production machineries	4	25	75	100	3	4
		13UCD3CN	C Pr.3 –Apparel Designing-Women's Wear	6	40	60	100	4	3
		13UCD3CO	C.Pr.4. Fashion Sketching	5	40	60	100	3	3
		14UCD3A1	Allied.P.1- Accounting and Export Management	6	25	75	100	3	5
	IV	12UCD3S1	Skill based subject 1 – Introduction to Textile Testing	2	25	75	100	3	3

		13TBT301/ 13TAT301/ 12UHR3N1	<b>Basic Tamil* / Advanced Tamil** / Non Major Elective-I ** Human Rights</b>	2		75		3	2
IV	III	14UCD406	C.P.6 - Knitting	4	25	75	100	3	4
		14UCD407	C.P. 7- Textile Processing	5	25	75	100	3	4
		13UCD4CP	C Pr. 5 -Textile Processing	5	40	60	100	3	3
		14UCD4CQ	C Pr.6 - Apparel Designing - Men's wear	6	40	60	100	4	4
		14UCD4A2	Allied P. 2 - Fundamentals of Research and Statistics	6	25	75	100	3	5
	IV	12UCD4SL	Skill based subject 2 – Textile Testing I practical's	2	40	60	100	3	3
		13TBT402/ 13TAT402/ 12UWR4N2	<b>Basic Tamil* / Advanced Tamil** / Non Major Elective II** Women's Rights</b>	2		75		3	2
V	III	14UCD5IT	£ 2 weeks internship training in garment unit	Grade					
		14UCD508	C.P.8- Historic Costumes of India	5	25	75	100	3	4
		14UCD509	C.P.9 – Fabric Care	5	25	75	100	3	4
		14UCD5CR	C.Pr. 7. Portfolio Presentation	7	40	60	100	4	4
		13UCD5CS	C.Pr.8 - Computer Aided Design I	6	40	60	100	4	3
		14UCD5E1	Major Elective I	5	25	75	100	3	5
	IV	12UCD5SM	Skill based subject-3 Textile Testing II practical's	2	40	60	100	3	3
VI	III	14UCD610	C.P.10. Organization of Garment Unit	6	25	75	100	3	4
		13UCD6CT	C.Pr.9. Computer Aided Design – II	6	40	60	100	4	3
		13UCD6CU	C.Pr.10 Home furnishing	5	40	60	100	3	4
		13UCD6Z1	Project & Viva Voce ***	6	20	80	100	-	5
		14UCD6E2	Major Elective II	5	25	75	100	3	5
	IV	14UCD6S2	Skill Based subject 2 – Quality Inspection and Standards	2	25	75	100	3	3
	V	14NCC/ NSS/YRC/ PYE101	Extension Activities*	-	50	-	50	-	1
			Total	180			3800		140

- \* No End-of-semester Examinations. Only Continuous Internal Assessment (CIA)  
 \*\* No Continuous Internal Assessment (CIA). Only End-of-semester Examinations (ESE).  
 \*\*\* Project record 60 marks; viva voce 20 marks.

### Major elective papers

Two papers are to be chosen from the following **Five** papers

Non Woven & Technical Textiles
Global Fashion Market
Apparel Marketing & Merchandising
Fashion History
Visual Merchandising and Display

### Non-major elective papers

- Human Rights
- Womens Rights

### PART-WISE TOTAL MARKS:

S.No	Part	SUBJECT	MARKS	TOTAL MARKS	CREDITS
	I	Language – Tamil/Hindi/ Malayalam/ French /Sanskrit	200	200	6
	II	English	200	200	6
3.	III	Core – Theory/Practical / Project	2100	2700	77
		Allied	400		20
		Electives	200		10
	IV	Basic Tamil/ Advanced Tamil (OR) Non Major Elective	150	650	4
		Skill Based Subject	400		12
		Environmental Studies	50		2
		Value Based Education	50		2
	V	Extension activities	50	<b>50</b>	1
		<b>TOTAL MARKS</b>	<b>3800</b>	<b>3800</b>	<b>140</b>

**CBCS** – Choice Based Credit System, **CIA** – Continuous Internal Assessment,  
**ESE** – End Semester Examinations

- ❖ 25% CIA is applicable to all Theory subjects under Part I, Part II, and Part III.
- ❖ CIA not applicable for subject under part IV except skill based subjects.

£ The students of B.Sc Costume Design and Fashion course shall undergo two weeks Internship Training at the end of the second and fourth semester (during summer vacation) and submit the report during the third and fifth semester .The report will be evaluated for 100 marks

along with the Internal Viva-Voce by respected Faculty. According to their marks, the Grades will be awarded as given below.

Marks %	Grade
85-100	O
70-84	D
60-69	A
50-59	B
40-49	C
<40	U(Reappear)

\*\*\*Project work which is compulsory carries 100 marks. Students should select a topic for project work in the beginning of VI semester and submit the Project Report (Dissertation) at the end of the VI semester. There is a Viva – voce for the project work. The Internal and the External Examiner shall jointly evaluate the project work and conduct the Viva – voce.

- **Job Oriented Course (JOC)** offered by the Department

1. Fashion Designing

- **Part Time Diploma Courses** offered by the department

1. Fashion Design

2. Garment Merchandising

3. Garment Manufacturing Technology

**MARKS SPLIT - UP FOR THEORY AND PRACTICALS  
ESE AND CIA**

**1. Break up Marks for CIA of Theory**

CIA Exam	-	15
Assignment	-	5
Attendance	-	5
		<hr/>
Total		25
		<hr/>

**2. Components of Practical:**

Break up Marks for CIA of Practical

CIA Practical Exam	-	25
Observation Notebook	-	10
Attendance	-	5
		<hr/>
Total		40
		<hr/>

Break up Marks for ESE of Practical

Experiment	-	50
Record	-	10
		<hr/>
Total	-	60
		<hr/>

**3. Component for Project:**

CIA / ESE	Particulars	Project Out of 100 Marks (UG)
<b>CIA</b>	Project Review	15
	Regularity	5
	<b>Total Internal Marks</b>	<b>20</b>
<b>*ESE</b>	Project Report	60
	Viva Voce	20
	<b>Total External Marks</b>	<b>80</b>
<b>Total Marks(CIA+ESE)</b>		<b>100</b>

# **PART III**

# **CORE PAPERS**

**UCD 01**  
**SEMESTER I**  
**C.P.1. PATTERN MAKING**

**14UCD101**

**OBJECTIVE :**

- To impart skills in basic techniques of pattern making and dart manipulation.
- To study the method of pattern grading and draping.

(Total Hours-75)

**CREDITS : 4**

**UNIT I**

(14 hours)

**BODY MEASUREMENTS** – Importance, Preparation for measuring, Girls and Ladies measurements, Boy's and Men's measurements. Standardizing body measurements – Importance, Techniques used. \*Relative length and girth measurements.

**UNIT II**

(16 hours)

**PATTERN MAKING** – Methods of pattern making, Types of paper patterns, Pattern making tools, Steps in drafting Bodice front, Bodice back, Sleeve, Skirt front and Skirt back - Study of commercial pattern - Merits & Demerits. Fitting – Standards of a good fit, Steps in preparing a blouse for fitting, checking the fit of a blouse.

**UNIT III**

(15 hours)

**DART MANIPULATION** – Single- Dart series- Slash- Spread technique- Center front waist dart- Center front neck dart, Mid-shoulder dart, French dart. Single- Dart series- Pivotal-transfer technique- Mid-neck dart, Side dart, Mid- Armhole dart, Shoulder- Tip dart. Two- Dart series- Slash- Spread technique- Two- dart working pattern- Waist and side dart, Mid- shoulder and Waist dart- Mid – armhole and Waist dart. Two- dart series – Pivotal- transfer technique- Mid- neck and waist dart, Shoulder- Tip and waist dart, Center front neck and Waist dart, shoulder dart, back neck dart.

**UNIT IV**

(16 hours)

**GRADING & DRAPING** - Grading – Manual Grading of basic bodice, Sleeve, Collar - Computerized Garding. Draping – Tools and Equipments used for Draping, Dress form - Preparation of dress form, Draping basic bodice pattern- Preparing the Fabric and Draping steps of basic back and front bodice- Basic back and Front skirt- Basic Sleeve- Draping of Peter pan collar.

**UNIT V**

(14 hours)

**PATTERN LAYOUT** – Preparation of fabric for Cutting – Importance of grain in cutting, and construction. Pattern layout - Definition, Purpose, Rules in layout, Types of layout (methods), and Special layouts. Piecing, Transferring pattern markings Stay stitching and Ease stitching.

**\* SELF STUDY**

**TEXT BOOK**

1. Cutting and Tailoring course, Gayatri Verma and Kapil Dev, Asian publishers, 2006.
2. Practical Clothing Construction- Part I and II, - Mary Mathews, Cosmic Press, Madras, 1990.
3. Cutting and Tailoring Theory – Verma Kapil Dev, Asian Publishers, New Delhi, 2005.
4. The Practical Guide to Pattern Making for Fashion Designers .Lori A. Knowles, Fair child publications, Inc, Newyork, 2005.

## UCD 02

### REFERENCES:

1. Designing Patterns - Hillary Campbell, Stanley Thornes Publishers Ltd. 2000.
2. Pattern Making for Fashion Design-.Helen Joseph-Armstrong Pearson Education Inc, 2006
3. The Art of Fashion Draping, III Edition, Connie Amaden-Crawford,OM Books International,2005
4. Encyclopedia of Dress Making, Rahul Jewel, AP.H, Publishing corporation, New Delhi, 2005



## UCD 03

### SEMESTER I

13UCD1CL

#### C.Pr.1 BASICS OF APPAREL DESIGNING

##### OBJECTIVE

- To impart knowledge and skills required for garment designing.
- To impart practical exposure in basic sewing techniques. (Total hours - 90 hours)

**CREDITS: 3**

##### I. SEAMS AND SEAM FINISHES

(16 hours)

Plain, Single Top Stitch, Double Top Stitch, Welt, Lapped, Slot, Flat Fell, French, Mantua Maker's, Piped Seam. Seam finishes - Edge stitch, Double Stitch, Overcast, Herringbone, Bound seam edge finish. Hems-Seam binding, Catch stitched, Narrow Machine Stitched, Rolled or Whipped finish, Shell Edged.

##### II. FULLNESS:

(18 hours)

Darts - Single Pointed, Double pointed. Tucks - Pin, Piped or Corded, Shell or Scalloped, Cross tucking, Group tuck with Scalloped effect, Pleats - Knife, Box, Inverted, Kick, Pinch, Cartridge Godets, Flares, Gathering - Hand, Machine, Using elastic, With cord piping. Shirring or gauging, ruffle - Single, Double, Circular Ruffle.

##### III. NECK FINISHES, PLACKETS & FASTENERS

( 20 hours)

Neck Finishing- Bias facing, Shaped facing, Decorative facing, Single Bias binding, French binding. Plackets - Continuous bound, Two-piece, Tailored, Zipper, Bound neck, Centre front / back placket. Fasteners - Button and button holes, Snap fasteners, Hooks and Eyes, Zip.

##### IV. SLEEVES AND POCKETS

( 18 hours)

Various styles of Set - in - Sleeves- Plain, Puff at top, Circular. Modified arm hole Sleeve and Bodice combined - Raglan, Kimono sleeve. Pockets - Patch, Bound, \*pocket in a seam.

##### V. COLLARS AND YOKE

( 18 hours)

Collar - Peter pan collar, Sailor, Rippled, Full shirt, Chinese, Turtle neck collar, Shawl collar. Yoke- Plain yoke, Yoke with fullness within the yoke, Yoke supporting / releasing fullness.

##### \* SELF STUDY

##### TEXT BOOKS

1. Zarapker System of Cutting - K R Zarapker, Navneet Publications Ltd, New Delhi. 2005.
2. Practical clothing construction - part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.
3. Cutting and Tailoring course, Gayatri Verma and Kapil Dev, Asian publishers, 2006.
4. Practical Drafting, Cutting and Tailoring, Vol -I, Anwani, R.B. Publications, New Delhi.

##### REFERENCE

1. Dress Making- Thangam Subramaniam, Bombay tailoring and Embroidery college, Chennai, 2006

**UCD 04**  
**SEMESTER II**  
**C.P.2 FIBER TO YARN**

**14UCD202**

**OBJECTIVE**

- To impart the knowledge of fibres, their sources, identification and properties
- To provide students with the knowledge of yarn and its classification.
- To inculcate the knowledge of fiber production and conversion to yarn.

(Total hours - 45 hours)

**CREDITS : 3**

**UNIT I**

(10 hours)

**INTRODUCTION TO TEXTILES** – Importance of Textiles, Definition of Fibers, Classification of fibers – Natural and Man-made, Primary and Secondary characteristics of Textile fibers

**UNIT II**

(10 hours)

**NATURAL FIBERS** - Manufacturing process, Properties and Uses of Natural fibers – Cotton, Linen, Jute, Silk, Wool, Hair fibers.

**UNIT III**

(7 hours)

**MAN-MADE FIBERS** - Manufacturing process, Properties and Uses of Man-made fibers – Viscose rayon, Acetate rayon, Nylon, Polyester, Acrylic.

**UNIT IV**

(9 hours)

**ADVANCED SPINNING METHODS** - Spinning sequence - Blending, Opening, Cleaning, Carding, Doubling, Combing, Drawing, Roving and Spinning. Open End spinning, Friction spinning, Electrostatic spinning, Vortex spinning, Air-jet spinning, Wet and Dry spinning, Melt spinning, Bicomponent spinning, Biconstituent spinning\*, Integrated Composite spinning.

**UNIT V**

(9 hours)

**YARN CLASSIFICATION**–Yarn definition, Yarn twist, Yarn count, Classification– Simple - Single, Ply, Cord - Fancy yarns - Spiral, Slub, Flake, Cockscrew, Knot boucle, Loop.

**\* SELF STUDY**

**TEXT BOOKS**

1. Textile Raw Material – Ajay Jindal, Rakesh Jindal, Abhisek Publications, Chandigarh, 2006.
2. Textiles – Fiber to fabric, Corbmann B P, Mc Graw Hill Book Co, Singapore 1985
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneet kaur, Dreamtech press, NewDelhi, 2010

## **UCD 05**

### **REFERENCE**

1. Fabric Science, Joseph J Pretal, Fairchild Publications, New York , 5th edition ,1990
2. Fundamentals of Textiles and their care–Susheela Dantyagi, Orient Blackwan,Ltd., NewDelhi, 2006.
3. Textiles – Sara J.Kadolph Pearson Education India Pvt. Ltd., New Delhi, 2009.
4. A Textbook of Fibre Science and Technology,SP Mishra,New Age International Publishers, 2005
5. Animal Textile, Rastogi,M,Sonali publications,New Delhi,2009

**C.P.3.FASHION DESIGNING AND FASHION PSYCHOLOGY**

**OBJECTIVES**

- To enable students to gain knowledge of elements and principles of design.
- To understand the fashion design concept and factors influencing fashion changes.
- To enable students to design garments for various figure irregularities.

(Total hours =45) **CREDITS:4**

**UNIT I**

(9 hours)

**FASHION TERMINOLOGIES** – Fashion, Fad, Style, Classic, Collection, Custom made, Mannequin, High fashion, Trend, Advant-garde, Bridge, Buying house, Fashion merchandising, Fashion cycle, Forecasting, Haute couture, Couture, Couturier, Pre- a-porter. **DESIGN** – Definition and types – Structural and Decorative design. Elements of a design – Line, Shape or form, Colour, Size and texture and illustrating garment design using elements of design.

**UNIT II**

(9 hours)

**PRINCIPLES OF DESIGN** – Balance – Formal and Informal, Rhythm – Through repetition, Radiation and Gradation, Emphasis – Grouping of design units, Using contrast hues, By leading lines, A combination of any of the above, Repeating details such as Tucks, Gathers, Unusual Shapes and Textures, Applied design on a contrast background, Harmony and Proportion- illustrating garment design using principles of design.

**UNIT III**

(9 hours)

**COLOUR** – Colour theories- Prang and Munsell, Colour harmonies - Monochromatic, Analogous, Complementary, Double complementary, Spilt complementary, and Triad colour harmony and illustrating garment design using colour harmonies.

**UNIT IV**

(9 hours)

**FACTORS INFLUENCING FASHION CHANGES** – Psychological, Social, Technological, Economical, Political, Legal and Seasonal influence. **FASHION EVOLUTION** – Fashion cycles, Consumer groups in fashion cycles – Fashion leaders, Fashion innovators, Fashion motivation, Fashion victims, Fashion followers. Adoption of fashion – Trickle down, Trickle up and Trickle across theory.

**UNIT V**

(9 hours)

**DESIGNING DRESSES FOR FIGURE IRREGULARITIES** – Becoming and Unbecoming of Stout figure, Thin figure, Slender figure, Large bust, Flat chest, Large hip, Large abdomen, Round face, Large face, Small face, Prominent chin and jaw, Prominent forehead, Narrow shoulders, Broad shoulders, \*Round shoulders.

**\* SELF STUDY**

## **UCD 07**

### **TEXT BOOKS**

- 1.The Dynamics of Fashion –Elaine Stone, Fair child Publications, New York, 2001.
- 2.Fashion Studies – An Introduction, Payal Jain, Anand Publications Pvt., Ltd., India, 2005.
- 3.Comdex Fashion Design,vol-I Fashion Concepts,Navneetkaur,Dreamtech press,Newdelhi,2010
- 4.Fashion from Concept to Consumer, Seventh Edition,Gini Stephens Frings,Pearson Education,2006

### **REFERENCES**

1. Handbook of Garment Manufacturing Technology, EIRI Board, Sudhir Gupta,Delhi, 2006.
2. Introduction to Fashion Technology - Pooja Khurana and Monikasrthi, Firewall Media Pvt, Ltd., New Delhi, 2007.
3. Elements of Fashion and Apparel Design – Sumathi. G.J.,New Age International publishers,New Delhi, 2002.

**UCD 08**  
**SEMESTER II**  
**C.Pr.2. APPAREL DESIGNING – KID’S WEAR**

**13UCD2CM**

**OBJECTIVE**

- To gain practical skill in drafting, pattern making and constructing selected kid’s wear.  
(Total hours - 75 hours)

**CREDITS : 3**

- ✓ **Designing, drafting and constructing the following garments with the given features.**
- ✓ **Required measurements and materials.**
- ✓ **Cost Calculation of the garment.**
- ✓ **Required measurements – Layout method / Direct measurement method**

**GARMENTS TO BE STITCHED IN WOVEN FABRIC:**

**I. JABLA, PANTY AND BIB** – with /without sleeve, with opening (15 hours)

**II. A-LINE FROCK** - Neckline Variations, collar, sleeve variations (15 hours)

**YOKE FROCK** - yoke at chest line, with opening, any type of sleeve, and skirt with fullness.

**III . ROMPER** - knicker or panty attached, with opening (15 hours)

**SUMMER FROCK** -with suspenders at shoulder line, fullness at neckline

**GARMENTS TO BE STITCHED IN KNITTED FABRIC:**

**IV. KNICKER** - elastic waist, side pockets (15 hours)

**SUNSUIT** - knickers with chest piece attached

**V. MIDI** - gathered, layered or pleated skirt (15 hours)

**MIDI TOPS** – Variation in neckline and sleeve

\*Construction of suitable Accessories – Layette/Bed, Belt, cap / Bonnet, Socks with any of the garments.

**\* SELF STUDY**

**TEXT BOOK**

1. Zarapkar System of Cutting, - K R Zarapker, Navneet publications, New Delhi. 2005.

**REFERENCES**

1. The complete Book of Sewing – Bety Hosegood, Dorling Kindersley Limited, London, 1996.
2. Cutting and Tailoring Course – Verma Kapil Dev, Asian Publishers, New Delhi, 2005
3. Practical Drafting, Cutting and Tailoring, Vol -I, Anwani, R.B.Publications, New Delhi.

**UCD09**  
**SEMESTER III**  
**C.P. 4. WEAVING**

**14UCD304**

**OBJECTIVES**

- To acquire knowledge of the different types of fabric structures and design
- To enable the students prepare woven designs with suitable draft and peg plan.
- To enable the students to gain knowledge of different weaving machines and weaving Mechanism

(Total Hours-75)

**CREDITS: 4**

**UNIT I**

(18 hours)

**WEAVING-** Definition, History of Weaving, Characteristics of woven fabric. Calculation of warp and weft, Sizing – sizing agents and process, Warping process, Dressing the loom, Winding the warp, Threading the loom.

**UNIT II**

(15 hours)

**LOOM** – Hand loom its Parts & functions - Shedding, Picking, Beating up (Battening) and Taking up and letting off. \*Selvedge, Fabric Count.

**UNIT III**

(15 hours)

**MODERN LOOMS** - Automatic, Shuttle less, Air jet, Water jet, Rapier, Projectile, Multiphase weaving machines. Advantages and disadvantages.

**UNIT IV**

(14 hours)

**WEAVES** - Basic weaves – Plain, Twill weave, Satin and Sateen weave and derivatives. Design, draft and peg plan for Plain weave, Twill weave.

**UNIT V**

(13 hours)

**FANCY WEAVES** – Dobby, Jacquard, Crepe, Gauze, Pile, Double cloth

**\* SELF STUDY**

**TEXT BOOKS:**

1. Textiles – Fiber to Fabric, Corbmann B P, International Students edition, Mc Graw Hill Book Co, Singapore. 1985
2. Fabric Science, Joseph J Pretal, Fairchild Publications, New York, 5th edition, 1990
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**REFERENCES:**

1. Fabric Structure and Design, - N.Gokarneshan, New Age International, New Delhi. 2006.
2. Modern Weaving technology – J. K. Arora, Aghisek Publications, Chandigarh, 2002.
3. Weaving –Conversion of Yarn to Fabric -P.R.Lord, M.H. Mohamed, Wood head Publishing Limited, 1998.
4. Fabric studies, Kanwar variender pal singh, Kalyani publications, New Delhi, 2009.



**UCD11**  
**SEMESTER III**  
**C.P.5 . GARMENT PRODUCTION MACHINERIES**

**14UCD305**

**OBJECTIVE:**

- To inculcate knowledge on working mechanism of sewing machine and other related machines.

(Total hours - 60 hours)

**CREDITS: 4**

**UNIT I**

(12hours)

**SEWING MACHINES** – Classification of sewing machines, Parts and functions of single needle machine, Over lock machine, Bar tacking machine, Button hole making machine, Button fixing machine, Feed-of-the-arm machine, Blind stitching machine, Fabric examining machine. Special attachments, \*Care and maintenance, Common problems and Remedies

**UNIT II**

(12 hours)

**STITCHING MECHANISM** – Needles, Bobbin and Bobbin case, Bobbin winding, Loops and Loop spreader, Threading finger, Upper and Lower threading, Throat plates, Take-ups, Tension discs – Upper and Lower thread tension, Stitching auxiliaries, Pressure foot and its types.

**UNIT III**

(12hours)

**MARKER PLAN & SPREADING** - The planning drawing and reproduction of the marker - Requirement, Efficiency , Methods of marker planning and marker use, Spreading -lay process - Requirements, Tools used - Methods of spreading and quality requirements in spreading

**UNIT IV**

(12 hours)

**CUTTING AND PRESSING**– Definition, function, scope. Cutting equipments and tools, hand shears, straight knife ,round knife, band knife computer controlled cutting knives, die-cutters, laser cutting ,plasma cutting ,water jet cutting and ultrasonic cutting, quality requirements in cutting. Pressing Equipments – purpose and methods – iron, steam press, steam air finisher, steam tunnel, special types – pleating, permanent press.

**UNIT V**

(12 hours)

**SEWING FEDERAL STANDARDS** - for stitch and stitch classification, federal standards for seam and seam classification, Fabric sewability, Sewing threads – types - Properties - essential qualities of a sewing thread, Manufacturing process of cotton and synthetic threads, \*twisting process.

**\* SELF STUDY**

**TEXT BOOK**

1. The Technology of Clothing Manufacture – Harrold Carr and Barbara Latham, Blackwell Science ,1994.
2. Handbook of Garment Manufacturing Technology, EIRI Board, Sudhir Gupta, Delhi 2006.

**REFERENCE**

1. Managing Productivity in Apparel Industry ,Rajesh Bheda, CBS publishers and Distributors, 2003
2. Reader's Digest Sewing Guide, Complete Guide for Sewing, 13th Edition, The Reader's Digest Association Inc, Pleasant Ville. 2004.
3. Practical Drafting, Cutting and Tailoring, Vol -I, Anwani, R.B.Publications, New Delhi.

**UCD 12**  
**SEMESTER III**  
**C.Pr.3 APPAREL DESIGNING – WOMEN’S WEAR**

**13UCD3CN**

**OBJECTIVE**

- To gain practical skill in drafting, pattern making and constructing selected Women’s wear.  
(Total hours - 90 hours)

**CREDITS: 3**

- ✓ **Designing, drafting and constructing the following garments with the given features.**
- ✓ **Required measurements and materials.**
- ✓ **Cost Calculation of the garment.**
- ✓ **Required measurement – Layout method / Direct measurement method**

**GARMENTS TO BE STITCHED IN WOVEN FABRIC:**

- I. SAREE PETTICOAT**–six panel, decorated bottom-pleated/ruffles (16 hours)  
**NIGHTIE**–with yoke, front open, with sleeve, full length.
- II. SALWAR** /Churidhar /Parallels /bell bottom and (20 hours )  
**KAMEEZ / KURTA**– with / without slit, with / without flare, with / without opening, With / without panels, with / without yoke
- III. BLOUSE / CHOLI** – front open, fashioned neck, waist band at front, with Sleeve(18 hours)  
**GHAGRA** – variations, with / without waist band, full length skirts.

**GARMENTS TO BE STITCHED IN KNITTED FABRIC:**

- IV. SKIRT**–circular/gathered/pleated, with waist band and (18 hours)  
**TOPS**-variations in neckline, with or without collar, with or without sleeve
- V. NIGHT SUIT TOP** - variations in tops, with or without yoke, with or without (18 hours)  
Yoke, with or without pocket.  
**PANTS** - with pockets, elastic/ waist band.

\*Construction of suitable Accessories – Handbags, Cellphone Pouches, Scarves, Hair Band, Neckband with any of the garments.

**\* SELF STUDY**

**TEXT BOOKS**

1. Zarapker System of Cutting – K R Zarapker, Navneet Publications Ltd, New Delhi. 2005.
2. Practical clothing construction – part I and II, Mary Mathews, Cosmic Press, Chennai,1986.

**REFERENCE**

1. Dress Making- Thangam Subramaniam,Bombay tailoring and Embroidery college, Chennai. 2006.
2. Practical Drafting, Cutting and Tailoring, Vol -I, Anwani, R.B.Publications, New Delhi.

**UCD13**  
**SEMESTER III**  
**C.Pr.4 FASHION SKETCHING**

**13UCD3CO**

**OBJECTIVES**

- To gain practical skill in sketching various head theories
- To impart practical knowledge in sketching various garments styles for men, women

(Total hours - 75 hours)

**CREDITS: 3**

**I. ILLUSTRATING DIFFERENT TYPES OF ACCESSORIES –** (15 hours)  
Bags, Footwear, Hats, and Sketching ornaments - Various types of hair styling

**II. HEAD THEORIES AND FREE HAND CROQUIE –** (20 hours)  
Drawing 7 ½ Head, 8 Head, 10 Head and 12 Head Theory. Drawing the Free hand croquie-men, women.

**III. CREATING ILLUSTRATIONS WITH VARIOUS GARMENTS STYLE-I** (10 hours)  
Summer wear, Winter Wear, Casual wear for Men, Women.

**IV. CREATING ILLUSTRATIONS WITH VARIOUS GARMENTS STYLE-II** (15 hours)  
Bridal Wear, Party wears and Sports wear for Men, Women.

**V. DEVELOPING ILLUSTRATIONS AND RENDERING –** (15 hours)  
Developing illustrations from the pictures of magazines. Rendering- Textured material (any two) –prints –checks –\*plaids on the Croquie

**\*SELF STUDY**

**TEXTBOOK**

1. Pencil Shading, Basic Techniques-, Raviraj, New Century Book House Pvt Ltd, Chennai, 2007
2. Introduction to Fashion Technology, Pooja Khurana & Monika Sethi, Firewall Media Pvt.Ltd, New Delhi, 2007
3. Fashion Rendering, Ranjana Singhal, Kannari Bharat, OM books International, 2010

**REFERENCE**

1. Fashion Sketch Book, Bina Ablang, 4<sup>th</sup> Edition, OM Books International, New Delhi, 2004

**UCD14  
SEMESTER IV  
C.P.6.KNITTING**

**14UCD406**

**OBJECTIVE:**

- To enable students gain knowledge in knitting and its types
  - To acquire knowledge of the different types of Knitted fabric structures and design
- (Total hours - 60 hours)

**CREDITS:4**

**UNIT I** (8 hours)

**KNITTING** – Definition, Classification and history, Difference between weaving and knitting. Types of Knitting – Hand and machine, Characteristics of Knitted goods. Difference between warp and weft knitting.

**UNIT II** (12 hours)

**PRINCIPLES OF KNITTING** - General terms in Knitting, Principles of knitting technology, Parts of Knitting machine, Machine knitting needles – Types and functions, Knitting cycle, Knitting notations – Verbal, Graph, Diagrammatic and Symbolic.

**UNIT III** (16 hours)

**WEFT KNITTING** – Basic stitches – Knit, Purl, Miss and Tuck ; Weft knitted fabrics and their properties - Single jersey, Purl, Rib , Jacquard, Pile, Double knit, Interlock; Weft knitting machines classification – Circular and Flat machines.

**UNIT IV** (12 hours)

**WARP KNITTING** – Lapping variations – Warp knitted fabrics - Tricot, Raschel, Simplex and Milanese and their variation and properties; Types of warp knitting machines - Single bar, Two bars and Multi bar machines.

**UNIT V** (12 hours)

**KNITTED GARMENTS** - Classification of knitted garments - Fully cut, Stitch shaped cut, Fully fashioned integral. Defects in knitted material, \*Care and maintenance of Knitted material – Washing, Drying, Ironing, Storing.

**\* SELF STUDY**

**TEXT BOOKS:**

1. Fundamentals of Knitting, Anbumani, New Age Publishers, 2007
2. Knitting Technology - D B Ajgoanker, Universal Publishing Corporation, Mumbai, 2006.
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, New Delhi, 2010

**REFERENCE:**

1. Knitting Technology - Manmeet Sodhia VarinderPal singh, Kalyani Publishiers, Ludhiana, 2003
2. Knitting technology, David Spencer, Pergamen Press, Oxford, 1982.
3. Fabric studies, Kanwar variender pal singh, Kalyani publications, New Delhi, 2009.

**UCD 15**  
**SEMESTER IV**  
**C.P.7.TEXTILE PROCESSING**

**14UCD407**

**OBJECTIVE:**

- To enable the students to learn Textile preparatory processes.
- To familiarize with the principles processing of textiles. (Total hours =75 hours)

**CREDITS: 4**

**UNIT I**

(12hours)

**PREPARATORY PROCESSES** – Need for processing and its classification, basic finishes – singeing or gassing, scouring, bleaching(different methods), mercerizing, sizing, and calendaring - Aesthetic finishes: Luster – glazed, moiré, Schreiner, Comfort related finishes: water repellent, Anti-static. Biological control finishes – Moth and Mildew, Anti bacterial, Anti fungi. Control Safety related finishes – flame retardant.

**UNIT II**

(17 hours)

**DYEING** – Dyes – classification and Fastness properties of dyes, direct, vat, reactive, acid, basic, azoic dyes. Vegetable dyes – types used, significance of vegetable dyes

**UNIT III**

(16 hours)

**STAGES OF DYEING** – fibre, yarn, fabric and garment – process involved advantages and limitations. Methods of Dyeing; Batch dyeing – Winch, Jig, Padding, Package dyeing, Combination dyeing, machines used and process involved.

**UNIT IV**

(15hours)

**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. Printing process, drying after printing, Dye stuff fixation, Final treatment.

**UNIT V**

(15hours)

**METHODS OF PRINTING** – Types, preparation of screen, printing process, Discharge printing – chemicals used, process involved. Resist printing:, batik printing, Tie and dye Process sequence and techniques used. - Direct printing: \*block printing, Stencil printing

**\* SELF STUDY**

**TEXT BOOKS**

1. Textiles-Fabrics and their Selection, - Wingate IB, Allied Publishers, Chennai, 2006.
2. Textiles – Fiber to Fabric, Corbmann B P, Mc Graw Hill Book Co, Singapore, 1985
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**REFERENCES:**

1. Thickening Agents and Emulsion Thickenings in Textile Printing – Herbert Barthm, New Delhi , 1994.
2. Understanding Textiles -Phyllis G.Tortora, Collier Macmillan Publishers, London 1982.

**UCD17**  
**SEMESTER V**  
**C.Pr.5.TEXTILE PROCESSING**

**13UCD4CP**

**OBJECTIVE:**

- To enable students get practical exposure in basic preparatory process, dyeing and printing  
(Total hours=75 hours)

**CREDITS: 3**

**I. PREPARATION OF SAMPLES FOR PROCESSING** (14 hours)

Desizing , Scouring, Bleaching, Mercerizing

**II. DYEING THE GIVEN FABRIC USING SUITABLE DYE** (15 hours)

Direct dye, Sulphur dye, Vat dyes, Disperse dyes, Reactive dyes,  
Acid dyes, Basic dyes, Natural dyes (any one)

**III. CREATE DESIGN WITH BLOCK PRINTING** – vegetable / wooden blocks (15 hours)

All over design (single or double colour)  
Border design (single or double colour)

**IV. A) STENCIL PRINTING** – (16 hours)

Create design for chest prints or neck or yoke designs with  
**Stencil printing** - single or double colour

**B) Tie and dye designs** with any of the three following methods

Methods – Pegging & Clipping, Tying, Tritic, \*Marbling, Knotting,  
Stripes and checks - Single colour, Double colour, Multi colour

**V. A) Batik printing** (15 hours)

Single colour, Double colour, Multi colour

**B) Screen printing** method

**\* SELF STUDY**

**TEXT BOOK:**

- 1.Textiles Fabrics and Their Selection, - Wingate IB, Allied Publishers, Chennai, 2006.
- 2.Fundamentals of Textiles and Their Care – Susheela Dantiyagi, Orient Longmann Ltd ,1980.

**REFERENCE:**

1. Textiles–, Sara J Radolph and Anna L Langford, Prentice hall, New Jersey, 2002.
2. Textile processing – J L Smith, Abhishek publications, Chandigarh, 2003.
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**UCD18**  
**SEMESTER IV**  
**C.Pr.6- APPAREL DESINGING- MEN'S WEAR**

**14UCD4CQ**

**OBJECTIVE:**

- To gain practical skill in drafting, pattern making and constructing selected mens' wear.  
(Total hours=90 hours)

**CREDITS : 4**

- ✓ **Designing, drafting and constructing the following garments with the given features.**
- ✓ **Required measurements and materials.**
- ✓ **Cost Calculation of the garment.**
- ✓ **Required measurements – Layout method / direct measurement method**

**TO BE STITCHED IN WOVEN FABRIC:**

**I. SLACK SHIRT** – With collar, Half sleeve, Patch pocket (16 hours)

**SB VEST**-Double sided, bound pocket.

**II. KALIDHAR KURTA** – Kali piece, Side pocket, Round neck, Half open and (20 hours)

**PYJAMA** - Elastic/tape attached waist

**III.SHIRT** – Full open, Shirt collar, Patch pocket, Half / Full sleeve with cuff, (20 hours)

**PLEATED TROUSERS** – Pleats in front, Darts at back, Side pocket, Fly with Button/zip

**TO BE STITCHED IN KNITTED FABRIC:**

**IV. T- SHIRT** – Front half open, Zip attached, With collar (18 hours)

**BERMUDAS** - Elastic/tape attached waist

**V. HOOD SHIRT** –With/without zipper placket (16 hours)

**TRACK SUIT** - Elastic waist bands and piping at the sides

\*Construction of suitable Accessories – Gloves, Ties, Wallets with any of the garments.

**\* SELF STUDY**

**TEXT BOOK**

1. Practical Clothing Construction, - Mary Mathews, Part I and II , Madras. 2004.
2. Zarapkar System of Cutting, - K R Zarapker, Navneet publications, New delhi. 2005.

**REFERENCES**

1. The Complete Book of Sewing – Bety Hosegood, Dorling Kindersley Limited, London,1996 .
2. Cutting and Tailoring Course – Verma Kapil Dev, Asian Publishers, New Delhi,2005
3. Practical drafting, cutting and tailoring, Vol -I, Anwani, R.B.Publications, New Delhi.



**UCD19**  
**SEMESTER V**  
**C.P.8 – HISTORIC COSTUMES OF INDIA**

**14UCD508**

**OBJECTIVE:**

- To acquaint students with different types of costumes.
  - To enhance the students' knowledge regarding accessories and Jewellery of different eras
  - To impart knowledge about of historic costumes of India
- (Total hours =75)

**CREDITS: 4**

**UNIT I**

(14 hours)

**BEGINNING OF COSTUME-** tatting, painting, body covering ,cutting etc. Study on Embroideries Textiles of India- Phulkari, Kantha, Chikankari, Kansur, Kasuti, Kathiawar, Chambarumals, Zardozi. Dyed Textiles of India- Bhandhini, Patola.

**UNIT II**

(16 hours)

**WOVEN TEXTILES OF INDIA-** Brocades, Paithani, Baluchari, Kanjeevaram, Jamdhani. Printed textiles of India- Kalamkari, Madhubani, Sanganeri, Bargu.

**UNIT III**

(16 hours)

**TRADITIONAL COSTUME OF EAST AND WEST OF INDIA-** EAST- Orissa, Bihar, Mizoram, and Tripura, Nagaland, Westbengal. WEST- Maharastra, Gujarat, and Madhya Pradesh

**UNIT IV**

(14 hours)

**TRADITIONAL COSTUME OF SOUTH AND NORTH OF INDIA.** SOUTH- TamilNadu, Kerala, Andrapradesh, Karnataka. NORTH- Rajasthan, Haryana, Himachal Pradesh, Uttarpradesh, Jammu and Kashmir, Assam, Sikkim

**UNIT V**

(15 hours)

**INDIAN JEWELLERY** –jewelleries used in the period of Indus valley civilization ,Mauryan period,Gupta period,the pallava period,and chola period, Mughal period. A brief study of gems and precious stones.

**\* SELF STUDY**

**TEXT BOOKS:**

1. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press,Newdelhi,2010
2. Indian Jewellery,M.L,Luster Press Pvt Ltd,INDIA(1999).
2. Indian Costume,G.H Ghosrye,Popular Books Pvt ltd,2003

## UCD 20

### REFERENCE:

1. Costumes of India, Dorris Flyn, Oxford & IBH Publishing Co, Delhi (1971).
2. Costumes of India and Paskistan, Das S.N, D,B Taraporevala Sons & Co, Bombay (1956)
3. The Costumes and Textiles of India, Jamila Brij Bhushan, D,B Taraporevala Sons & Co, Bombay (1958)

**UCD21**  
**SEMESTER-V**  
**C.P.9. FABRIC CARE**

**14UCD509**

**OBJECTIVE**

- To impart knowledge about care and maintenance of textiles.

(Total hours =75 hours)

**CREDITS: 4**

**UNIT I**

(15 hours)

**WATER & LAUNDERING-** water- sources of water, types of hardness, methods of softening water, and determination of hardness. laundry soaps – manufacture of soap (hot process, cold process), composition and types of soap, soapless detergents, chemical action of detergents, detergent manufacture, advantages of detergents.

**UNIT II**

(15 hours)

**FINISHES** – Starch, preparation of starch (cold water and hot water), purpose of stiffening, classification of stiffening agents, Preparation and use of stiffeners. Laundry blues and its application. Bleaches- types and its application

**UNIT III**

(15 hours)

**LAUNDRY EQUIPMENT** –Washing equipments – wash board, suction washer, wash boiler, washing machine. Drying equipments – out door and indoor types. Irons and types of iron box- flat, automatic, steam iron. Ironing board – different types.

**UNIT IV**

(15 hours)

**PRINCIPLES OF WASHING** – Friction, suction washing, washing by kneading and squeezing and washing by machine. Laundering of different fabrics – cotton and linen, wool, colored fabrics, silks, rayon and nylon. **DRY CLEANING** – using absorbents and grease solvents. \*Storing – points to be noted.

**UNIT V**

(15 hours)

**STAIN REMOVAL** –Stain- Definition, Classification of stains, stain and their methods of removal, Lead Pencil, Lipstick, Mildew, paint, perfume, perspiration, tar, turmeric and kum-kum. Care label – labeling parameters, care label symbols, various systems of care labeling (British and Canadian), importance of care labeling and placement of labels on garments.

**\* SELF STUDY**

**TEXTBOOKS**

1. Fundamentals of Textiles and Their Care – Susheela Dantyagi, Orient LongmannLtd ,1996
2. Fabric Care, Noemia D Souza,New Age International Publishers,1998

## **UCD22**

### **REFERENCES**

1. Household textiles and laundry work – Durga Duellkar, Amla Ram & Sons, Delhi, 1985
2. Pradip V. Mehta, “An Introduction to Quality Control for Apparel Industry” – ASQC Quality press, 1992
3. Understanding Textiles, Phyllis G. Tortora, 2nd edition, Collier Macmillan publishers, London, 1982

**UCD23**  
**SEMESTER V**  
**C. Pr .7 PORTFOLIO PRESENTATION**

**14UCD5CR**

**OBJECTIVE:**

- To enable students prepare and present portfolio

(Total hours=105 hours)

**CREDITS: 4**

**Portfolio development and presentation for any one theme/season/occasion**

- Customer profile
- Mood board, Story board, Fabric board, Color board – to be presented separately or in a combined form.
- \*Fabric development chart
- Design development chart
- Pattern development
- Garment construction
- Final presentation
- Number of garments in a collection – 3 + 1 stage garments with suitable accessories.

**\* SELF STUDY**

**UCD24**  
**SEMESTER V**  
**C.Pr.8.COMPUTER AIDED DESIGN- I**

**13UCD5CS**

**OBJECTIVE**

- To impart computer knowledge in Fashion Designing (Total hours - 90 hours)

**CREDITS: 3**

**CREATE THE FOLLOWING DESIGNS USING CAD**

**I. INTRODUCTION TO COREL DRAW**

(16 hours )

Introduction to Corel Draw and Their Functions.

Developing - floral and geometric motifs for embroidery using coral draw.

**II.APPLICATION OF THE ELEMENTS OF DESIGN IN THE GARMENTS** (18 hours )

Line, Shape, Form, Colour, Size, Texture.

**III. APPLICATION OF THE PRINCIPLES OF DESIGN IN THE GARMENTS** (20 hours)

- Balance
- Harmony
- Emphasis
- Proportion
- Rhythm

**IV. APPLICATION OF THE COLOUR HARMONY IN THE GARMENTS** (18 hours )

- Monochromatic colour harmony
- Analogous colour harmony
- Complementary - Direct, Double, \*Spilt Complementary, Triad colour harmony, Tetrad colour harmony

**V. CAD IN PATTERN MAKING** (18 hours )

CAD in Pattern drafting, grading and marker plan for kid's wear – Jabla - Frock - Middi and Middi Tops.

**\* SELF STUDY**

**TEXTBOOK**

1. Rendering fashion, fabric and prints, M.Kathleen Colussy, Steve Greenberg, Pearson Education, Inc, 2005

**REFERENCE**

1. Practical Clothing Construction, - Mary Mathews, Part I and II , Madras 2004.
2. Zarapkar System of Cutting, - Navneet publications, New Delhi 2005.
3. Corel Draw: The official Guide, Gary David Bouton, McGraw-Hill Osborne Media ,2008

**UCD 25**  
**SEMESTER VI**

**14UCD610**

**C.P.10. ORGANISATION OF GARMENT UNIT**

**OBJECTIVE:**

- To develop entrepreneurship skills among the students
- To familiarize the students with the process and procedure of setting up new enterprises.

(Total hours - 90 hours)

**CREDITS: 4**

**UNIT I**

(16 hours)

**ENTREPRENEURSHIP** – Meaning, Definition and Types, Need for entrepreneurship, Qualities and Types of entrepreneurs. Difference between Entrepreneur and Manager. Management – Definition, Management as a process – planning, Organizing, Directing, Controlling, Co ordination.

**UNIT II**

(20 hours)

**INSTITUTIONS SUPPORTING ENTREPRENEURS** –year of establishment and the functions of following institutions- DIC, NSIC, SISI, SIPCOT, TIIC, KVIC, CODISSIA, Commercial banks – SBI, IDBI

**UNIT III**

(18 hours)

**DIFFERENT DEPARTMENTS IN A GARMENT UNIT** – Organizational Structure of a garment unit – Hierarchical organization, Design, Finance, Purchasing, Production, Organizing different sections – Hierarchy. Personnel involved in all the departments and Nature of the job.

**UNIT IV**

(16 hours)

**FACTORY DESIGN AND LAYOUT** – Importance of factory design, Factors affecting factory design, \*Types of buildings (single and multi-storey) – Advantages and limitations. Factory layout – Process, Product and Combined layout. Design requirements – Requirements relating to health, safety and welfare

**UNIT V**

(20 hours)

**INDIAN GARMENT EXPORTS** - Present scenario of Indian garment exports, SWOT Analysis, Setting up garment unit for export market, Procedures, and Payment methods.

**\* SELF STUDY**

**TEXT BOOKS**

1. Introduction to clothing production management – A J Chester 2<sup>nd</sup> edition, Wren bury Associates Ltd, 1998.
2. The Technology of clothing Manufacture – Harold Carr and Barbara Latham, Blackwell Science, 1994.

**REFERENCE**

1. Entrepreneurial Development -S.S. Khanka, , S.Chand & co, 1<sup>st</sup> Edition, 2004.
2. Entrepreneurial Development - Jayashree Suresh, ,Marahom Publications, Chennai, 2003.
3. Marketing Management, Philip kotler and Kevin lane, keller. pearson, education, Inc, Delhi, .2006
4. Entrepreneurship Development, Anilkumar.s., Poornima.s.s., Abraham, k. Jayashree, Newage International publishers, Newdelhi, 2003

**UCD26**  
**SEMESTER VI**  
**C.Pr.9.COMPUTER AIDED DESIGN- II**

**13UCD6CT**

**OBJECTIVE:**

- To impart computer knowledge in fashion and garment designing (Total hours=90 hours)

**CREDITS : 3**

**CREATE THE FOLLOWING DESIGNS**

**I. INTRODUCTION TO ADOBE PHOTOSHOP**

(16 hours)

Introduction to Adobe Photoshop and Their Functions. Creating logos for T-shirts  
Create logos for branded companies. Create label for garments / companies.

**II. CAD IN PATTERN MAKING**

(20 hours)

Drafting Basic patterns for ladies apparel. Pattern grading for ladies apparel. (Middi & top – Salwar , Kameez – Full Gown). Marker planning for ladies apparel.

**III. CAD IN PATTERN MAKING**

(20 hours)

Basic patterns for Men's apparel. Pattern grading for Men's apparel (T-shirt, Bermudas-

Kurta Pyjama- Pant, Full Sleeve Shirt). Marker planning for Men's apparel.

**IV. GARMENT DESIGNING-I**

(18 hours)

Garment designing for \* Summer and Winter wear (Men ,Women & Children's ) with suitable accessories.

**V. GARMENT DESIGNING - II**

(16 hours)

Garment designing Party wear (Men & Women and Children), Bridal wear for men & women with suitable accessories.

**\*SELF STUDY**

**TEXTBOOK**

1. Rendering fashion, fabric and prints,M.Kathleen Colussy,Steve Greenberg,Pearson Education ,Innc,2005
2. Practical Clothing Construction, - Mary Mathews, Part I and II , Madras2004

**REFERENCE**

1. Zarapkar System of Cutting, - Navneet publications, New delhi 2005
2. Corel Draw: The official Guide,Gary David Bouton,McGraw-Hill Osborne Media ,2008



**UCD 27**  
**SEMESTER VI**  
**CPr.10- HOME FURNISHING**

**13UCD6CU**

**Objective:**

- To enable students to gain practical knowledge in designing and constructing home Furnishings

(Total hours =75)

**CREDITS:4**

Application of any of these for home furnishing- painting/quilting/ patch/Braiding/smocking /Appliqué/cut work/ Embroideries/ Surface embellishments/ Tucks/Pleats/Ruffles/gathers/ flares/ godets/any creative design.

**I** - Sofa cover – 3 Seater / single seater, Chair covers / bolster ,Cushion –(2types). (15 hours)

**II** - Curtain/ Draperies, Blanket, Pillow cover. (15 hours)

**III**- Shower cap, Bathmat, Dressing gown, Cloth basket. (15 hours)

**IV** –Apron, Glove, Pot holder, Mixi /Fridge cover. (15 hours)

**V** - Table mat, Placemat, Napkin, Teacosy, Wall hanging. (15 hours)

**TEXTBOOK**

1. The Everything Sewing Book, Sandra Detrixhe, f +w Publications, 2004.
2. Quick & Easy Home Sewing Projects, READERS DIGEST, Loria Nicol, 2005.

**REFERENCE**

1. Curtains, Heather Lukes, New Holland publishers, 2009.
2. Decorating with antique and exotic fabric Textile Style – Caroline Cufton –Mogg 2000, Aurum press Ltd, 2003.
- 3.Home Comforts-The Art of Keeping House,Cheryl Mendelson ,Scriber,Newyork,2005

**UCD 28  
SEMESTER VI  
PROJECT & VIVA VOCE**

**13UCD6Z1**

(Total hours =90)

**CREDIT: 5**

**A project has to be planned in any one of the following areas: Designing, Sampling, Knitting, Weaving, Processing, Production and Computer.**

**MARK DISTRIBUTION**

<b>CIA</b>	<b>-</b>	<b>20 MARKS</b>
<b>ESE*</b>	<b>-</b>	<b>80 MARKS</b>
<b>TOTAL</b>	<b>-</b>	<b>100 MARKS</b>

**\*Project & Viva –voice shall be evaluated by both Internal & External Examiners jointly.**

**ALLIED**

**UCD 29**  
**SEMESTER I**  
**ALLIED. Pr.1. FASHION ILLUSTRATION**

**13UCD1AL**

**OBJECTIVE**

- To enable students gain knowledge in various Sketching techniques.

(Total hours =75 hours)

**CREDITS: 5**

**I. LEARNING THE TECHNIQUES**

(15 hours)

Enlarging and reducing the motifs, Learning the usage of various drawing and sketching medium – Pencils, Ink, Charcoal, Brushes, Crayons, Water colours and Poster colours

**II. SKETCHING DIFFERENT TYPES OF NECKLINES, COLLARS & SLEEVES** (15 hours)

NECKLINES - Bottle neck, V neck, Halter, Asymmetric necklines, COLLARS - Peter pan, Shirt, SLEEVES - Different types of short sleeves, and long sleeves.

**III. ILLUSTRATING DIFFERENT TYPES OF SKIRTS, PANTS & LADIES TOPS** (15 hours)

Tulip, Six gore, Wrap around, Layered, Godget Skirts on fashion figure, Illustrating different types of pants, \*Illustrating various ladies tops.

**IV. DRAWING THE FACE OF A FIGURE** (15 hours)

Drawing frontal face, Various facial features – Lips, Nose, Eyes, and Ears. Drawing different hands & leg poses.

**V. DRAWING HUMAN ANATOMY** (15 hours)

Drawing Children - Free hand croquie. Wardrobe Collection for boys and girls.

**\* SELF STUDY**

**TEXTBOOK**

1. Pencil Shading, Basic Techniques-, Raviraj, New Century Book House Pvt Ltd, Chennai, 2007
2. Introduction to Fashion Technology, Pooja Khurana &Monika Sethi, Firewall Media Pvt.Ltd, NewDelhi, 2007

**RERERENCE**

1. Fashion Sketch Book, Bina Abbing, 4<sup>th</sup> Edition, Om Books International, New Delhi, 2004.
2. Fashion Rendering, Ranjana Singhal, Kannaki Bharali, Om books Internationals, Noida, 2010.

**UCD 30**  
**SEMESTER II**  
**14UCD2AM**  
**ALLIED.Pr.2. SURFACE ORNAMENTATION**

**OBJECTIVE:**

- To impart practical knowledge in various surface ornamentation techniques (18 hours / unit)  
(Total hours =75 hours)

**CREDITS : 5**

**I. INTRODUCTION**

(15 hours)

Materials, Tools and Equipments used, Design Sources, Methods of transferring designs.

**II. PREPARATION OF HAND INDIAN EMBROIDERY SAMPLES**

(15 hours)

Chain, Feather, Stem, Fishbone, Fly, Satin, Herringbone, Lazy-daisy, Bullion knot and Buttonhole.

**III. PREPARATION OF TRADITIONAL INDIAN EMBROIDERY SAMPLES** (15 hours)

Kashida of Kashmir, Phulkari of Punjab, Chamba Rumal of Himachal Pradesh, Kashida of Bihar, Kantha of Bengal, Kasuti of Karnataka, Chikankari of Uttarpradesh, Kutuh of Gujarat.

**IV. PREPARATION OF MACHINE EMBROIDERY SAMPLES**

(15 hours)

Straight, Granite, Cording, Satin and Long & Short.

**V. OTHER FABRIC EMBELLISHMENTS**

(15 hours)

Preparing samples for Mirror, Beads, Sequins, Zardosi, Stone work. Fringes and Tassels, Laces, Smocking, Cutwork, Pompons, Patchwork, \* appliqué. Quilting and Fabric painting techniques- any 2 types.

**\* SELF STUDY**

**TEXT BOOKS**

1. Practical clothing construction – part I and II, Mary Mathews, Cosmic Press, Chennai, 1986
2. Dress Designing –Manmeet Sodhia, Kalyani Publishiers, New Delhi, 2001.
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**REFERENCES:**

1. Text Book Of Homescience – Premlathe Mullick, Kalyani Publishiers, New Delhi, 2007.
2. Reader's Digest Sewing Guide, Complete Guide for Sewing, 13<sup>th</sup> Edition, The Reader's Digest Association Inc, Pleasant Ville, 2004

**UCD 31**  
**SEMESTER IV**  
**ALLIED .P.2. FUNDAMENTALS OF RESEARCH AND STATISTICS**  
**14UCD4A2**  
(Total hours =90)  
**CREDITS: 5**

**OBJECTIVE:**

- To enable student to gain knowledge in basic of research.
- To gain knowledge on basic concepts of statistics to solve the modern business problem.

**UNIT- I** (18 Hours)

**RESEARCH METHODOLOGY** - Introduction – Definition of research – Characteristics of research – Criteria of good research – Types of research. Research problem – Selecting the problem – Technique involved in defining a problem. Research design – Meaning, Features of a good design, Developing a research plan.

**UNIT- II** (18 Hours)

**SAMPLING DESIGN** – Meaning of sample – Steps in sampling process – Essentials of good sampling – Methods of sampling – Probability sampling – Simple, Random and Stratified random – Nonprobability sampling – Accidental, Quota, Purposive, Convenience, Criteria of a good sample design.

**UNIT- III** (18 Hours)

**DATA COLLECTION** – Collection of primary data – Observation method, Interview method, Collection of data through questionnaires and schedules – Difference between questionnaire and schedules – Collection of secondary data – selection of appropriate method for data collection – Case study method – Guidelines framing questionnaire / schedule.

**UNIT –IV** (18 Hours)

**MEANING AND SCOPE OF STATISTICS** – Classification and Tabulation – Presentation of data by diagrams –\*Bar diagram and Pie diagram – Graphical representation – Frequency distribution.

**UNIT –V** (18 Hours)

**MEASURES OF CENTRAL TENDENCY** – Arithmetic Mean, Median, Mode, Geometric -Their computation – Properties and uses. **MEASURES OF DISPERSION** - Range, Quartile deviation, Standard deviation and Co- efficient of variation. **CORRELATION** - Meaning and definition – Scatter diagram, rank correlation.

**\* SELF STUDY**

## **UCD 32**

### **TEXT BOOKS:**

1. Statistical Methods, S.P.Gupta, Sulthan Chand & Sons, New Delhi, 2008.
2. Research Methods- Methods and Techniques, C.R.Kothari, New Age International Publishers, New Delhi, 2004

### **REFERENCES:**

1. “Business Mathematics & Statistics” Navaneetham P A, Jai Publication, 2007.
2. “Business Mathematics & Statistics” Dr. P R Vittal. Margham Publications, 2004.

# **MAJOR ELECTIVE**



## UCD 33

### MAJOR ELECTIVE - NONWOVEN AND TECHNICAL TEXTILES

#### OBJECTIVE

- To enable the students to know about non woven and preparation of web .
- To inculcate the knowledge of Technical Textiles.

(Total hours =75)

**CREDITS: 5**

#### UNIT- I

( 15 hours)

**NON-WOVEN** – Definition – Classification - Fibers used - Web preparation - Parallel laid - Cross laid and Random laid web preparation.

#### UNIT – II

( 15 hours)

**BONDING** – Mechanical – Thermal - Chemical / Adhesive. Production of melt blown and spun lace techniques.

#### UNIT – III

( 15 hours)

**TECHNICAL TEXTILES** – Introduction, Definition, Classification, \*Applications & End uses. **AGRO TEXTILES** - Introduction, General properties and end uses.

#### UNIT- IV

( 15 hours)

**GEO TEXTILES** –Introduction, General properties and end uses. **INDUSTRIAL TEXTILES** - Introduction, General properties and end uses.

#### UNIT- V

( 15 hours)

**MEDICAL TEXTILES** – Introduction, General properties and end uses. **HOME TEXTILES** – Introduction, General properties and end uses.

#### \*SELF STUDY

#### TEXT BOOKS

1. Technical textiles-Anand and A.R.Horracks, Textile institute, 2006..
2. Non-wovens - Arul Dahiya, MG Kamath, Raghavendra R Hedge and Monika Kannadnguli, 2006.
3. Hand Book of Technical Textiles – A R Horrocks and S C Anand, wood Head publishing Ltd, England 2000.
4. Nonwoven Fabrics:Raw Materials, Manufacture, Applications, Characteristics, Testing Processes, Wilhelm Albrecht, Hilmar Fuchs, Walter Kittelmann John Wiley & Sons, 2006

**UCD 34**  
**MAJOR ELECTIVE – GLOBAL FASHION MARKET**

**OBJECTIVE**

- To impart knowledge about opportunities available in fashion field at global level.

(Total hours =75)

**CREDITS: 5**

**UNIT I**

(15 hours)

**MARKET TERMINOLOGY** – Market, Market Center, Mart, Market Weeks and Trade Shows. Scope of fashion Industry, Economic importance of fashion industry

**UNIT II**

(15 hours)

**ORGANIZATION OF MARKETS AND MARTS TODAY**, services offered by regional markets and marts – facilities, publications, publicity, and market calendar for the year.

**UNIT III**

(15 hours)

**SHOPPING FOREIGN MARKETS** – methods used for buying foreign fashion merchandise, markets of different countries – France, Italy, Britain, Germany, \*America.

**UNIT IV**

(15 hours)

**SCOPE OF THE FASHION INDUSTRY**, choosing a career in fashion, evaluating fashion goals, in depth job study, career paths, careers in manufacturing – raw material industry, fashion designer, hand weaver and silk screen artists, fabric stylist and colorists.

**UNIT V**

(15 hours)

**GLOBAL RETAILING SCENE** – American, European, Asian. Career in fashion retailing – Small store opportunity, large company multi channel opportunity, fashion retailing job classifications,

**\* SELF STUDY**

**TEXT BOOKS**

- 1.Fashion marketing – Mike Easey, Black well Science Ltd, 1995
- 2.Fashion Merchandising – An Introduction – Elaine Stone , Mcgraw-Hill Book Company , New York (1995).
- 3.Fashion Retailing (A Multi channel Approach) – Ellen Diamond, Pearson Prentice Hall, New York, 2006.

**REFERENCES**

1. Marketing – R S N Pillai and Bhagavathi, S Chand and company ltd, New Delhi, 1987
2. Fashion marketing – Mike Easey, Black well Science Ltd, 1995
3. Inside the fashion business, - Kitty G. Dickerson, Pearson Publishers, India, 2005

## UCD 35

### MAJOR ELECTIVE - APPAREL MARKETING AND MERCHANDISING

#### OBJECTIVE

- To enable the students to know various marketing concepts in Apparel Industry.

(Total hours =75)

**CREDITS: 5**

#### UNIT I

(15 hours)

**MARKET AND MARKETING FUNCTION** - Meaning and Classification, Marketing, Fashion marketing, market - Levels of market, Marketing environment – Micro and Macro marketing environment. Marketing Function – Definition, Buying, Assembling, Grading – Standardisation. The fashion industry and new product development, Product – mix and range planning.

#### UNIT II

(15 hours)

**MERCHANDISING** - Merchandising - Definition, Terms used, Types - Fashion Merchandising and visual merchandising - Role of Merchandiser, Functions, Qualities and problems of Merchandiser, Coordination with various Departments- Buying House and Buying Agency.

#### UNIT III

(15 hours)

**FASHION ADVERTISING & PRICING POLICIES** - Fashion advertising and preparation of advertising for apparel market, Advertising media used in apparel market – Advantages and Limitations. Pricing policies and importance of pricing policies, Functions and Factors influencing pricing – Internal and External.

#### UNIT IV

(15 hours)

**SALES PROMOTION & RETAILING** - Personal selling, Sales promotion – Objectives and Methods, Retailing – Definition and Types- In store & Non store retailing. Organization factors contributing successful retailing.

#### UNIT V

(15 hours)

**COSTING & BRANDING** - Costing- Principle of Costing –Types –Costing of various Garments- Children's wear, Women's wear and \*Men's wear. Cost Control and problems in costing. Branding -Definitions , Reasons for branding, Features of a good brand, Types of brand and advantages of Branding, Branding Stages-Brand and Brand Strategies.

**\* SELF STUDY**

## **UCD 36**

### **TEXT BOOKS**

1. Fashion marketing – Mike Easey, Black well Science Ltd, 1995
2. Marketing management – Dr B K Chatterjee Jaico, Juice Publishing house, Bombay 1982
3. Modern Marketing –principles and practices by R.S.N.Pillai and Bagavathi,1996 .
4. Fashion Marketing And Merchandising by Manmeet Sodhia and Pooja chatley,2001

### **REFERENCES**

1. Advertising – C N Sonatakki, Kalyani Publishers, New Delhi, 1989
2. Fashion from Concept to Consumers, 7th Edition, Gini Stephens Frings, Pearson Education, 2002
3. Modern Marketing: Principles and Practices – D. Chandra Bose; PH1 Learning Pvt. Ltd., 2010

**UCD 37**  
**MAJOR ELECTIVE - FASHION HISTORY**

**OBJECTIVE**

- To inculcate knowledge of Fashion and its development from past .

(Total hours =75)

**CREDITS: 5**

**UNIT I**

(15 hours)

**INTRODUCTION TO FASHION** – Evolution of fashion – The beginning of couture, The industrial revolution, Retailing response to mass production, Segments of the fashion industry

**UNIT II**

(15 hours)

**FASHION IN EARLY YEARS** – Greek - Costumes, Their hair dressing and accessories used, Roman - Costumes, Their hair dressing, and accessories used, Europe costumes, Their hair dressing and accessories used - Egypt costumes, Their hair dressing and accessories used.

**UNIT III**

(15 hours)

**FASHION DURING RENAISSANCE PERIOD** (16 – 19<sup>TH</sup> CENTURY)-the art of traditional Chinese dress, Evolution and revolution, Fashion trends, Influence on fashion, Ethnic influences.

**UNIT IV**

(15 hours)

**FASHION OF TWENTIETH CENTURY-** Factors that contribute to the change of fashion, The designers who influenced the period, Important styles - Early, Middle and late twentieth century

**UNIT V**

(15 hours)

**FASHION HISTORY OF INDIA-** By fifteenth century, \*The end of World War II, With the arrival of sixties.

**\* SELF STUDY**

**TEXTBOOKS**

1. History of Fashion, Manmeet Sodhia, Kalyani Publishers, New Delhi, 2006.
2. World of Fashion, Jay diamond; Ellen diamond, Fairchild publications, Newyork, 1990.

**REFERENCES**

1. Concise History of Costume Design and Fashion, James laver, Thames and Hudson publication, Newyork, 1969.
2. World Textiles – Concise history, Mary schoeser, Thames and Hudson publication, United Kingdom 2003.
3. Fashion Apparel, Accessories & Home Furnishings, Diamond Jay, Pearson Education India ,2008

## UCD 38

### MAJOR ELECTIVE VISUAL MERCHANDISING AND DISPLAY

#### Objective

- Enable the students to know the components of the store
- Enable the students to know about the types of displays ( Total hours =75)

**CREDITS: 5**

#### UNIT I

(15 hours)

#### INTRODUCTION TO VISUAL MERCHANDISING AND DISPLAY BASICS:

Defination,why do we display.Colour and Texture, Line and Compostion,Light and Lighting,Types of Display and Display settings

#### UNIT II

(15 hours)

**STORE EXTERIOR AND INTERIOR :** The exterior of store signs, marquees, outdoor lighting , banners, planters, awnings, windows in store front design , store Interiors - focal points, island displays , platforms the runway, the cat walk,counters and display cases, museum cases , Demonstration cubes , Ledges , shadow boxes, enclosed displays , fascia , T-walls and 100 percent Traffic areas

#### UNIT III

(15 hours)

**THINGS USED FOR SUCCESSFUL DISPLAYS:** Mannequins -Types , Realistic , semi realistic semi abstract, abstract , and headless mannequins , Alternatives to the mannequin three quarter forms , articulated artists figures, dress forms, cutout figures, inflatable's, drapers, hangers, lay down techniques , pinup techniques , flying techniques

#### UNIT IV

(15 hours)

#### ATTENTION GETTING DEVICES ,FAMILIAR SYMBOLS AND SIGNAGE

:Contrast ,scale , repetition , Humor , mirrors, nostalgia, motion , surprise and shock , props familiar , symbols anniversaries, career fashions , back to school and college , bridal , festive occasions ,clearance sales . Graphics and signage - graphics definition, graphics in retail stores signage, Drawings, size and types of signs and cards , Techniques for preparing signage , other signage Technique

#### UNIT V

(15 hours)

#### RELATED AREAS OF VISUAL MERCHANDISING: Point of Purchase, uses of

P-O-P , Exhibit Types : permanent exhibits , temporary exhibits , traveling exhibit , outdoor exhibit , fashion shows. Career opportunities in Visual Merchandising.

#### BOOK REFERENCES:

1. Visual Merchandising and Display ,Fifth Edition, Martin M.Pegler, Fair child Publications, INC NEW YORK, 2006
2. Visual Merchandising and Display,Sixth Edition,Martin M.Pegler,Bloomsbury Academic,2011
- 3.Careers in Fashion and Textiles,Helen Goworek,Blackwell publishing,2007

#### REFERENCES

1. The world of Fashion, Second Edition, Jay Diamond and Ellen Diamond, Fairchild publications,Newyork,1999

# **PART IV**

# **SKILL BASED**

**UCD 39**  
**SEMESTER-III**

**12UCD3S1**

**SKILLED BASED SUBJECT 1- INTRODUCTION TO TEXTILE TESTING**

**OBJECTIVE:**

- To enable students to know various Fiber, Yarn and Fabric testing methods.
- To familiarize students with the different testing equipments, their underlying principles and the accepted standards, Test methods.

(Total hours =30)

**CREDITS: 3**

**UNIT I**

(6 hours)

**TEXTILE TESTING** - Need for textile testing, Objectives of testing - Research, Selection of raw materials, Process control, Process development and Product testing.

**UNIT II**

(6 hours)

**TESTING OF FIBRE-** Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute, Modal -Microscopic method, Flame test, Chemical test.

**UNIT III**

(6 hours)

**TESTING OF YARNS** - Count of the yarn using wrap reel and Beesley's yarn count balance, Yarn twist using twist tester, and Crimp testing.

**UNIT IV**

(6 hours)

**TESTING OF FABRICS** - GSM, Weight, Thickness and Stiffness. Shrinkage, Strength and Elongation, Drapability, Abrasion, Color matching cabinet and \*Fabric Count.

**UNIT V**

(6 hours)

**ABSORBENCY AND COLOUR FASTNESS TEST-** Absorbency tests –Sinking, Capillary Test, and Drop Test, Grey scale and its uses, Colour fastness – Sunlight, Crocking, Pressing, Perspiration, Laundering.

**\* SELF STUDY**

**TEXT BOOKS**

- Physical Testing- Angappan, P and R.Gopalkrishnan SSM institute of Textile Technology Students  
Co-operative stores Ltd., 2003
- Principles of Textile Testing, Booth, JE ,CBS Publishing,Distributors,NewDelhi,1996
- 3. Textile Raw Materials, Ajay Jindal and Rakesh Jindal, Abshishek Publications, 2006
- 4. Comdex Fashion Design,vol-I Fashion Concepts,Navneetkaur,Dreamtech press,Newdelhi,2010

**REFERENCES**

1. "An introduction to Quality Control for Apparel Industry" Pradip V. Mehta, ASQC Quality press, 1992.
2. Understanding Textiles, Phyllis G.Tortora, 2nd edition, Collier Macmillan publishers, London, 1982



**UCD 40**  
**SEMESTER-IV**  
**12UCD4SL**  
**SKILL BASED SUBJECT 2- TEXTILE TESTING -I**

**OBJECTIVE**

- To impart practical knowledge to the students regarding testing of fibers and yarns.
- To familiarize students with the different testing equipments and testing methods.

(Total hours =30)

**CREDIT: 3**

**I. FIBRE ANALYSIS - VEGETABLE FIBRE**

(7 hours)

Cotton, Linen, Jute.

**II. FIBRE ANALYSIS - ANIMAL FIBER**

(6 hours)

Silk and Wool.

**III. FIBRE ANALYSIS - MANMADE FIBER**

(7 hours)

Polyester, Rayon Nylon.

**IV. YARN TESTING I**

(5 hours)

Yarn count using Wrap reel, Beesleys yarn count.

**V. YARN TESTING II**

(5 hours)

Yarn Twist and Crimp Testing

**TEXT BOOKS**

1. Physical testing- Angappan, P and R.Gopalkrishnan, SSM institute of Textile Technology Students Co-operative stores Ltd., 2003
2. Principles of Textile Testing, Booth, JE, CBSpublishing, Distributors, NewDelhi, 1996
3. Textile Raw Materials, Ajay Jindal and Rakesh Jindal, Abshishek Publications, 2006

**REFERENCES**

1. "An Introduction to Quality Control for Apparel Industry" Pradip V. Mehta, – ASQC Quality press, 1992.
2. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**UCD 41**  
**SEMESTER V**  
**SKILL BASED SUBJECT 3- TEXTILE TESTING-II**

**12UCD5SM**

**OBJECTIVE**

- To impart practical knowledge to the students regarding testing of fibers and yarns.
- To develop an understanding of methods and techniques used to analyse textile fibers, yarns and fabrics for end use performance.

(Total hours =30)

**CREDIT: 3**

**I. FABRIC TESTING I**

(6 hours)

GSM, Fabric count, and Fabric Weight

**II. FABRIC TESTING II**

(6 hours)

Thickness, Stiffness, and Shrinkage test

**III. ABSORBENCY TESTS**

(6 hours)

Drop test, Sinking, and Capillary rise test

**IV. COLOUR FASTNESS TEST I**

(4 hours)

Color matching cabinet, Colorfastness to Sunlight, Washing, and Pressing,

**V. COLOUR FASTNESS TEST II**

(8 hours)

Colour fastness to Perspiration, Acidic and Alkaline, Crocking - Dry & Wet

**TEXT BOOKS**

1. Physical testing- Angappan, P and R.Gopalkrishnan, SSM institute of Textile Technology Students Co-operative stores Ltd., 2003
2. Principles of Textile Testing, Booth, JE, CBSpublishing, Distributors, NewDelhi, 1996
3. Textile Raw Materials, Ajay Jindal and Rakesh Jindal, Abshishek Publications, 2006

**REFERENCE**

1. .Pradip V. Mehta, “An introduction to Quality Control for Apparel Industry” – ASQC Quality press, 1992.
2. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2010

**UCD 42**  
**SEMESTER-VI**

**14UCD6S2**

**SKILLED BASED SUBJECT- 4 - QUALITY INSPECTION AND STANDARDS**

**OBJECTIVE**

- To enable students to know various Inspection aspects and Standards followed in Textile units.
- To enable students understanding the importance of Quality control in textile testing.

(Total hours =30)

**CREDITS: 3**

**UNIT I**

(6 hours)

**INTRODUCTION TO QUALITY CONTROL-** Definition, Scope, Functions and Importance of Quality. Quality Control and Quality Assurance.

**UNIT II**

(6 hours)

**QUALITY INSPECTION** – Definition, Inspection loop, Raw material inspection, Fiber, Yarn, Fabric. In-process inspection - Spreading, - Inspection in Cutting, Sewing, Pressing/finishing. Final inspection - Size, Measurement and Dress from fitting.

**UNIT III**

(6 hours)

**QUALITY INSPECTION OF ACCESSORIES** - Zippers, Buttons, Buckles and Snap fasteners and Interlinings. Practical Orientation in Quality inspection.

**UNIT IV**

(6 hours)

**QUALITY STANDARDS** – Introduction, Year of establishment, Benefits of standards, Levels of standards, Sources of standards, Functions of the standards, Advantages of implementing these standards and ASTM, BIS, AATCC, ISO 9000 and ISO 14000 series. Eco standards.

**UNIT V**

(6 hours)

**QUALITY TOOLS** - Seven tools to quality - Cause and effect, Checklist, Control chart, Flow hart, Histogram, Pareto Chart, and Scatter diagram .

**\*SELF STUDY**

**TEXT BOOKS**

1. “An Introduction to Quality Control for Apparel Industry” Pradip V. Mehta, – ASQC Quality Press, 1992.

**REFERENCES**

1. Physical testing- Angappan, P and R.Gopalkrishnan, SSM institute of Textile Technology Students Co-operative stores Ltd., 2003
2. Principles of Textile Testing, Booth, JE, CBSpublishing, Distributors, NewDelhi, 199
3. Comdex Fashion Design, vol-I Fashion Concepts, Navneetkaur, Dreamtech press, Newdelhi, 2014.
4. Textile Raw Materials, Ajay Jindal and Rakesh Jindal, Abshishek Publications, 2006

**UCD 43**  
**KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]**  
**COIMBATORE - 641 029**

**B.Sc Costume Design and Fashion**  
**Question Paper Pattern for CIA and ESE**

Question Paper Pattern from 2014-15 batch onwards for B.Sc Costume Design and Fashion

**QUESTION PAPER PATTERN FOR THEORY**

**Duration: 3 Hours**

**Maximum Marks:75**

**Section- A (10 x 1= 10 Marks)**

Answer all the Questions

Choose the best answer with four fragments

**Section B (5 x5 = 25 Marks)**

Short Answers, either or type, one question from each unit

**Section C (5 x 8 = 40 Marks)**

Essay type Questions, either or type, one question from each unit

**QUESTION PAPER PATTERN FOR PRACTICALS**

**Duration: 3/4 Hours**

**Maximum Marks:60 Marks**

**Section- A**

Record - 10 Marks

**Section B**

Experiment - 50 Marks

# **DIPLOMA**

- **FASHION DESIGN**
- **GARMENT CONSTRUCTION**
- **GARMENT MERCHANDISING**

**KONGUNADU ARTS AND SCIENCE COLLEGE**  
**(AUTONOMOUS)**  
**Re-Accredited by NAAC with 'A' Grade Status (CGPA - 3.80 out of 4)**  
**College with Potential for Excellence (UGC), Star College (DBT)**  
**Co-Educational Institution Approved by UGC and AICTE, New Delhi.**  
**Coimbatore - 641029**

**PART TIME DIPLOMA IN FASHION DESIGN**

Duration: 1 year

Curriculum, Scheme of Examinations and Syllabi  
(with effect from academic year 2014-15 & onwards)

S. No	Subject code	Title of The Paper	Instruction Hours		Exam Marks			Duration of Examination
			THEORY	PRACTICAL	CIA	ESE	Total	
1	13CDF01	Basics of Fashion Designing	75	-	25	75	100	3 Hrs
2	13CDF02	Fundamentals of Apparel Designing	75	-	25	75	100	3 Hrs
3	13CDF03	Fabric Embellishments	-	75	40	60	100	3 Hrs
	Total Mark						300	-

**The examination will be conducted at the end of the academic year**

**Question paper pattern CIA and ESE**

**Theory papers: 100 marks**

Maximum Internal Marks = 25 marks

Maximum External Marks = 75 Marks

Section - A Multiple choice (25x1=25 Marks)

Section - B Short Answer (Either or type) (5x4=20 Marks)

Section - C Essay Type (3 out of 5) (3x10=30 Marks)

**Practical Papers:**

Maximum Internal Marks = 40 marks

Maximum External Marks= 60marks

Practical's (experiment) = 40 marks

Record = 10 marks

Viva-voce = 10 marks

**ELIGIBILITY: H.Sc Passed**

UCD 44  
**PAPER 1**  
**BASICS OF FASHION DESIGNING**

**13CDF01**

**OBJECTIVES**

- To enable students to gain knowledge of fashion design
- To understand the fashion design concept and process.

**(Total hours = 75)**

**UNIT I**

(15 hours)

**FASHION TERMINOLOGIES** – Fashion, Fad, Style, Classic, Collection, Custom Made, Mannequin, High Fashion, Trend, Advantage, Bridge, Buying House, Fashion Merchandising, Fashion Cycle, Forecasting, Haute Couture, Couture, Couturier, Pre- A-Porter. Theories of fashion – Trickle down, Bottom up, and Trickle across.

**UNIT II**

(15 hours)

**DESIGN & ELEMENTS OF A DESIGN** – Design- Definition, Types – Structural and Decorative design. Elements of a Design – Line, Shape or Form, Colour, Size and Texture and Illustrating garment design using elements of design.

**UNIT III**

(15 hours)

**PRINCIPLES OF DESIGN** – Balance – Formal and Informal, Rhythm – through Repetition, Radiation and Gradation, Emphasis – grouping of design units, using contrast hues, by leading lines, a combination of any of the above, repeating details such as tucks, gathers, buttons, etc., unusual shapes and textures, applied design on a contrast background, Harmony and Proportion- planning of the basic shapes and division of shapes for a good relationship and Illustrating garment design using principles of design.

**UNIT IV**

(15hours)

**COLOUR** –Meaning, Dimensions of Colour - Prang colour theory, colour harmonies - Monochromatic, Analogous, Complementary, Double complementary, Spilt complementary, and Triad colour harmony and illustrating garment design using colour harmonies.

**UNIT V**

(15 hours)

**DESIGNING DRESSES FOR FIGURE IRREGULARITIES** – Becoming and Unbecoming ,Stout figure, Thin Figure, Slender Figure, Large Bust, Flat Chest, Large Hip, Large Abdomen, Round Face, Large Face, Small Face, Prominent Chin and Jaw, Prominent Forehead, Narrow Shoulders, Broad Shoulders, Round Shoulders.

**TEXT BOOKS**

1. The Dynamics of fashion –Elaine Stone, Fair child Publications, New York.2002
2. Fashion Studies – An Introduction, Payal Jain, Anand Publications Pvt., Ltd., India, 2005.

**REFERENCES**

1. Fashion Technology handbook-Meenakshi Narang, Asia pacific Business Press,2001
2. Handbook of Garment Manufacturing Technology, EIRI Board, Sudhir Gupta,Delhi.2006
3. Introduction to Fashion Technology - Pooja Khurana and MonikaSRTHI, Firewall Media Pvt, Ltd., New Delhi, 2007.
4. Elements of Fashion and Apparel Design – Sumathi. G.J., New Age International publishers. New Delhi, 2002.

**UCD 45**  
**PAPER 2**  
**FUNDAMENTALS OF APPAREL DESIGNING**

**13CDF02**

**OBJECTIVES**

- To enable students to gain knowledge of basic seam and seam finishes
- To enable students to know various types of Neckline, Sleeve, Collar, Skirts and Pant.

**(Total hours = 75)**

**UNIT I**

(15 hours)

**SEAMS AND FULLNESS** – Seams - Plain ,Single top stitch, Double top stitch, Welt, Lapped, Slot, Flat Fell, French, Mantua Maker's ,Piped Seam. Seam finishes - Edge stitch, Double Stitch, Overcast, Herringbone, Bound seam edge finish. Hems-Seam binding, Catch stitched, Narrow Machine Stitched, Rolled or Whipped finish, Shell Edged. Fullness: Darts - Single Pointed, Double pointed. Tucks - pin ,piped or corded , shell or scalloped, cross tucking , group tuck with scalloped effect, Pleats - knife, box , Inverted , kick, pinch ,cartridge Godets, Flares, Gathering - hand, machine, using elastic, with cord piping. Shirring or gauging, ruffle – single, double, circular Ruffle.

**UNIT II**

(15 hours)

**NECKLINE-** Types of Necklines- V- Neckline, U- Neckline, Round Neckline, square Neckline, halter necklines, sweetheart necklines, Off-Shoulder neckline, Boat Neckline, Cowl Neckline, keyhole neckline, Jewel Neckline, Scoop Neckline, Assymmetric neckline.

**UNIT III**

(15hours)

**SLEEVE** - Types of sleeves - Plain Sleeve, Puff at Top Sleeve, Puff Sleeve At Bottom , Puff At Top And Bottom Sleeve, Bishop Sleeve, Circular Sleeve, Leg-O-Mutton Sleeve, Raglan Sleeve, Bell Sleeve, Tulip Sleeve, Cap Sleeve, Kimono Sleeve, Batwing(Magyar) Sleeve, Dolman Sleeve, Epaulet Sleeve, Victorian Sleeve.

**UNIT IV**

(15 hours)

**COLLAR** - Parts of Collar -Types of Collars - Peter Pan collar, Cape collar, Scalloped Collar, Puritan collar, Sailor collar, Square Collar, Rippled Collar, Full roll convertible collar, Turtle neck collar, Tie collar, Shirt Collar, Chinese collar, Shawl collar.

**UNIT V**

(15 hours)

**SKIRTS AND PANT:** Skirts- Types of Skirts- Six and Four gore skirt, Circular Skirt, Pleated Skirt, Tulip Skirt, Wrap around Skirt, Layered Skirt, Godet Skirt, A-Line Skirt, and Ballon Skirt. Pant – Parts of Pant - Types of Pants – Pleated Pant, Bell bottom pant, Flared Pant, Harem Pant, Jodhpur, and Tights.

**TEXT BOOKS**

1. Elements of Fashion and Apparel Designing, Sumathi.G.D. New Age International, New Delhi, 2005.
2. Practical Clothing Construction- Part I and II, - Mary Mathews, Cosmic Press, Madras,1990

**REFERENCES**

1. Dress Designing - Manmeet Sodhia, Kalyani Publishers, Ludhiana. 2006.
2. Zarapkar System of Cutting, - Navneet publications, New Delhi. 2005.



UCD 46  
**PRACTICAL -1**  
**FABRIC EMBELLISHMENTS**

**13CDF03**

**OBJECTIVE:**

- To impart practical knowledge in various surface ornamentation techniques
- To enable the students gain practical knowledge on different embroideries of India.

**(Total Hours= 75 hours)**

**UNIT I**

( 15 hours)

**INTRODUCTION** – Meaning of Embroidery, Equipment and Materials used for embroidery, Embroidery designs, Planning the embroidered article, Methods of Transferring designs, Types of Design- Naturalistic, Conventional, Geometric, Abstract, Historic, Biomorphic.

**UNIT II**

(15 hours)

**BASIC EMBROIDERY STITCHES** - Hand Embroidery Stitches - chain, feather, stem, fishbone, fly, satin, Herringbone, Lazy-daisy, Bullion knot and buttonhole. - Machine Embroidery Stitches.

**UNIT III**

(15hours)

**TRADITIONAL EMBROIDERY OF INDIA**- Kashida of Kashmir, Phulkari of Punjab, Chamba Rumal of Himachal Pradesh, Kashida of Bihar, Kantha of Bengal, Kasuthi of Maharashtra, Chikankari of Lucknow, Kutch of Gujarat.

**UNIT IV**

(15hours)

**TRIMMINGS AND DECORATIONS** - Mirror, beads, sequins, zardosi, stone work, Fringes and tassels, laces, smocking, Cutwork, Pompons, Patchwork, appliqué.

**UNIT V**

(15hours)

**FABRIC PAINTING AND PRINTING** - Fabric painting- Techniques - Stencilling, Brush, Sponging, Block/Impression and Spray. Tie and Dye technique (Knotting, Marbling, Pleating, Clipping, Lehreya), Batik – Splashing and Drawing Technique. Printing – Block Printing, Stencil Printing.

**TEXT BOOKS**

1. Practical clothing construction – Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.
2. Every Thing Sewing Book – Sandra Dextrixhe, ISBN: 1593370520, Avon, MA: Adams Media 2004.

**REFERENCES:**

1. Text Book of Homescience – Premlathe Mullick, Kalyani Publishers, New Delhi, 2007.
2. Bead Embroidery – Valeric Campbell, Harding Pamela watts, published by B.T. Batsford Ltd, 2004.

**Kongunadu Arts and Science College**  
(Autonomus)  
Coimbatore-29

**PART TIME DIPLOMA IN GARMENT CONSTRUCTION**

Duration: 1 year

Curriculum, Scheme of Examinations and Syllabi  
(with effect from academic year 2014-15 & onwards)

S. No	Subject code	Title of The Paper	Instruction Hours		Exam Marks			Duration of Examination
			THEORY	PRACTICAL	CI A	ESE	Total	
1	13CDG01	Pattern Making and Garment Construction	75	-	25	75	100	3 Hrs
2	14CDG02	Garment Designing and Construction-I	-	75	40	60	100	3 Hrs
3	13CDG03	Garment Designing and Construction-II	-	75	40	60	100	3 Hrs
	Total Marks						300	-

**The examination will be conducted at the end of the academic year**

**ESE Question paper pattern**

**Theory papers: 100 marks**

Maximum Internal Marks = 25 marks

Maximum External Marks = 75 Marks

Section - A Multiple choice (25x1=25 Marks)

Section - B Short Answer (Either or type) (5x4=20 Marks)

Section - C Essay Type (3 out of 5) (3x10=30 Marks)

**Practical Papers:**

Maximum Internal Marks = 40 marks

Maximum External Marks= 60marks

Practicals = 40 marks

Record = 10 marks

Viva-voce = 10 marks

**ELIGIBILITY: H.Sc Passed**

**UCD 47**  
**PAPER 1**  
**PARTERN MAKING AND GARMENT CONSTRUCTION**      **13CDG01**

**OBJECTIVES**

- To enable students to gain knowledge of basic seam and seam finishes
- To enable students to know various types of Neckline, Sleeve, Collar, Skirts and Pant.

**(Total hours = 75)**

**UNIT –I**

(15 hours)

**MACHINE PARTS, TOOLS AND BODY MEASUREMENTS** - Parts and function of a single needle machine, essential tools-cutting tools, measuring tools, marking tools, pressing tools. Body measurements-importance, preparing for measuring, ladies, men, children measurements. Definition - grain, on grain, cross grain, bias, and selvedge

**UNIT II**

(15 hours)

**NECKLINE AND SLEEVES** – Nekline - Types of Neklines- V- Neckline, U- Neckline, Round Neckline, square Neckline, Halter neckline, sweetheart neckline, Off-Shoulder neckline, Boat Neckline, Cowl Neckline, keyhole neckline, Jewel Neckline, Scoop Neckline, Assymetric neckline. Sleeve - Types of sleeves - plain sleeve, puff at top sleeve, puff sleeve at bottom , puff at top and bottom sleeve, Bishop sleeve, Circular sleeve, Leg-o-Mutton sleeve, Raglon Sleeve, Bell sleeve, Tulip Sleeve, Cap sleeve, Kimono sleeve, Batwing(Magyar) sleeve, Dolman Sleeve, Epaulet sleeve, Victorian Sleeve.

**UNIT III**

(15 hours)

**COLLAR, SKIRTS AND PANTS** - Parts of Collar -Types of Collars - Peter Pan collar, Cape collar, Scalloped collar, Puritan collar, Sailor collar, Square collar, Rippled collar, Full roll convertible collar, Turtle neck collar, Tie collar, Shirt collar, Chinese collar, Shawl collar. Skirts and Pant: Skirts- Types of Skirts- Six and Four gore skirt, Circular Skirt, Pleated Skirt, Tulip Skirt, Wrap around Skirt, Layered Skirt, Godet Skirt, A-Line Skirt, and Ballon Skirt. Pant – Parts of Pant - Types of Pants – Pleated Pant, Bell bottom pant, Flared Pant, Heram Pant, Jodhpur, and Tights.

**UNIT IV**

(15 hours)

**PATTERN MAKING** – Methods of pattern making Types of paper patterns - Pattern details. Steps in drafting bodice front, bodice back and sleeve.Grading definition- Basic Bodice Front and Basic sleeve

**UNIT V**

(15 hours)

**PATTERN LAYOUT** – definition, purpose, rules in layout, types of layout(methods), What can be done if cloth is insufficient, fabric cutting, transferring pattern markings, stay stitching and ease stitching.

**TEXT BOOKS**

1. Elements of Fashion and Apparel Designining, Sumathi.G.D. New Age International, New Delhi, 2005.
2. Practical Clothing Construction- Part I and II, - Mary Mathews, Cosmic Press, Madras,1990

**REFERENCES**

1. Dress Designing - Manmeet Sodhia, Kalyani Publishers, Ludhiana. 2006.
2. Zarapkar System of Cutting, - Navneet publications, New Delhi. 2005.

**UCD 48**  
**PRACTICAL-I**  
**GARMENT DESIGNING AND CONSTRUCTION-I**

**14CDG02**

**OBJECTIVES**

- To enable students gain knowledge of basic seam and seam finishes
- To enable students know various types of Neckline, Sleeve, Collar, Skirts and Pant.

**(Total hours = 75)**

**1. SEAMS AND FULLNESS –**

**(25hours)**

Seams-Plain ,Single top stitch, Double top stitch, Welt, Lapped, Slot, Flat Fell, French, Mantua Maker's ,Piped Seam.

Seam finishes - Edge stitch, Double Stitch, Overcast, Herringbone, Bound seam edge finish.

Hems-Seam binding, Catch stitched, Narrow Machine Stitched, Rolled or Whipped finish, Shell Edged.

Preparation of One Sample for Each

**2. FULLNESS AND FASTNERS –**

**(25hours)**

Darts - Single Pointed, Double pointed.

Tucks - pin ,piped or corded , shell or scalloped, cross tucking , group tuck with scalloped effect,

Pleats - knife, box , iInverted , kick, pinch ,cartridge Godets, Flares,

Gathering - hand, machine, using elastic, with cord piping. Shirring or gauging,

Ruffle – single, double, circular Ruffle.

Fastners – Button, Buttonhole, Press button, Hook and Eye.

Preparation of One Sample for Each

**3. CONSTRUCTION OF CHILDRENS WEAR**

Designing and construction of the following dresses:

**(25 hours)**

1. Bib

2. Panties-Plain and elastic panty

3. Jabla features:

I Type

II Type

a) Sleeveless

a) With Sleeve

b) Close neck

b) Boat neck

c) With open

c) With open

4. Summer frock-with suspender at shoulder line, fullness at neck line.

**TEXT BOOKS**

1. Practical Clothing Construction- Part I and II, - Mary Mathews, Cosmic Press, Madras, 1990

**REFERENCE**

1. Zarpakar System of Cutting, - Navneet publications, New delhi. 2005.

2. Practical clothing construction – Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.

**UCD 49**  
**PRACTICAL-II**  
**GARMENT DESIGNING AND CONSTRUCTION-II**

**13CDG03**

**OBJECTIVES**

- To enable students learn the aspects of pattern construction.
- To enable students to design and construct various Ladies and Mens Garment Making.

**(Total hours = 75)**

**1. CONSTRUCTION OF LADIES WEAR**

**(40 hours)**

**SALWAR** –with/without pleats

**KAMEEZ** - with neckline variation, with /without slit, full/half sleeve

**BLOUSE**- front opening, with yoke, plain sleeve

**2. CONSTRUCTION OF MENS WEAR**

**(35 hours)**

**NIGHT SHIRT** –with / without pocket

**NIGHT PANT**-with side seam pocket

**TEXT BOOKS**

1. Practical Clothing Construction- Part I and II, - Mary Mathews, Cosmic Press, Madras, 1990

**REFERENCE**

1. Zarapkar System of Cutting, - Navneet publications, New delhi. 2005.
2. Practical clothing construction – Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.

**Kongunadu Arts and Science College**  
**(Autonomus)**  
**Coimbatore-29**

**PART TIME DIPLOMA IN GARMENT MERCHANDISING**

Duration: 1 year

Curriculum, Scheme of Examinations and Syllabi  
(With effect from academic year 2014-15 & onwards)

S. No	Subject code	Title of The Paper	Instruction Hours		Exam Marks			Duration of Examination
			THEORY	PRACTICAL	CI A	ESE	Total	
1	13CDH01	Basics of Textile and Apparel design	75	-	25	75	100	3 Hrs
2	13CDH02	Introduction to Garment Merchandising	75	-	25	75	100	3 Hrs
3	13CDH03	Apparel Designing and Textile Testing	-	75	40	60	100	3 Hrs
	Total Marks						300	-

**The examination will be conducted at the end of the academic year**

**ESE Question paper pattern**

**Theory papers: 100 marks**

Maximum Internal Marks = 25 marks

Maximum External Marks = 75 Marks

Section - A Multiple choice (25x1=25 Marks)

Section - B Short Answer (Either or type) (5x4=20 Marks)

Section - C Essay Type (3 out of 5) (3x10=30 Marks)

**Practical Papers:**

Maximum Internal Marks = 40 marks

Maximum External Marks= 60marks

Practicals = 40 marks

Record = 10 marks

Viva-voce = 10 marks

**ELIGIBILITY: H.Sc Passed**

**UCD 50**  
**PAPER 1**  
**BASICS OF TEXTILE AND APPAREL DESIGN**

**13CDH01**

**Objective:**

To inculcate the knowledge of fiber to yarn conversion and Fabric Formation methods.

- To gain knowledge in Basics of Designing and Garment Making (Total hours = 75)

**UNIT I**

(15 hours)

**FIBRE AND YARN MANUFACTURE** - Introduction to the field of Textiles – classification of fibres . Manufacturing process, Properties and Uses of Natural fibres – Cotton, Silk, Man-made fibres –rayon, polyester. Spinning – Definition- Blending, Blow room, Carding, Combing, Drawing. Other spinning methods - Wet and Dry spinning, Melt spinning, Bicomponent spinning, Biconstituent spinning, Integrated Composite spinning.

**UNIT II**

(15 hours)

**FABRIC FORMATION** -Weaving – Definition, Loom -Parts and its Function, Weaving Process- Shedding, Picking , Beating up and Letting off. Basic Weave- Plain, Twill and Satin. Knitting- Definition- Classification – Parts of Knitting Machine, Knitting Cycle and Knitting Notation. Weft Knitting- Single Jersey, Warp Knitting- Tricot. Difference between Woven and Knitted Fabric.

**UNIT III**

(15 hours)

**WET PROCESSING** - Sequence of Processing- singeing, desizing, scouring, bleaching, mercerizing. Dyeing – Dyes – classification. Stages of dyeing – Fibre, Yarn, Fabric and Garment – process involved. Methods of Dyeing; Batch dyeing – Winch, Jigger, Jet Dyeing. Printing – introduction to printing, differences between Printing and Dyeing. Block printing, Stencil printing, Screen printing. Finishes- Moire, Schreiner, Water repellent, Flame Retardant, Moth and Mildew.

**UNIT IV**

(15 hours)

**APPAREL DESIGNING**-Design –definition,types-Elements of Design-Principles of Design-Colour-Prang colour Theory-Pattern Making-Steps in Drafting –Bodice Front,Back and Sleeve

**UNIT V**

(15hours)

**GARMENT MAKING**-Types of Seams, Plackets- Two piece, Continuous bound Placket – Neckline - Round ,Square- Yokes- Simple yoke, Yoke with fullness. Fullness – Definition, Types. Darts, tucks, Pleats, Flares, And Godets, Gathers and Shirrs, Frills or Ruffles, Flounces. Pockets – Patch pocket, Pocket in a seam. Hand Embroidery Stitches - Chain, Stem, Satin, Herringbone, Lazy-daisy, Bullion knot and Buttonhole.

**TEXT BOOKS**

1. Practical Clothing Construction – Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.
2. Textiles – Fiber to Fabric, Corbmann BP, International Students edition,Mc Graw Hill Book Co,

**REFERENCE**

1. Textiles – ninth edition, Sara J Radolph and Anna L Langford, Prentice hall, New Jersey , 2002.

**UCD 51**  
**PAPER 2**  
**INTRODUCTION TO GARMENT MERCHANDISING 13CDH02**

**OBJECTIVE:**

- To inculcate the knowledge Garment Merchandising in Apparel Industry

**(Total hours = 75)**

**UNIT-I:**

(15hours)

**MERCHANDISER** - Merchandising Definition –Types- Fashion Merchandising, Visual merchandising-Role of Merchandiser-Coordination with various Departments-Buying House and Buying Agency.

**UNIT-II :**

(15 hours)

**BRANDING** –Definitions, reasons for branding, Features of Good brand, Types of Brand and Advantages of Branding, Branding Stages - Brand and Brand Strategies.

**UNIT-III:**

(15hours)

**RETAILING AND TRADE FAIR**- Retailing-Types of Retailing –Advertising-Supply Chain Management-E-Commerc in Apparel Industry- Trade Fair Participation and Methods of Sales Promotion.

**UNIT-IV:**

(15 hours)

**COSTING**- Principle of Costing –Types –Costing a garment-Cost sheet, wholesale.Pricing, cost Merchandising.Costing of various Garments-Children,s wear-women,s wear-Men,s wear - Cost Control.

**UNIT-V:**

(15 hours)

**DOCUMENTATION**- Quota Countries –Non Quota Countries –Quota Items-Non Quota –TPE-FCFS-NIE-NQE-Role of AEPC-Export Certificate-Special Customs Invoice-GSP-IE Code-Commercial Invoice-Packing List-LC-Bill of Exchange-Procedurs-Guarantee-Term Loans.

**TEXT BOOKS**

1. Modern Marketing –Principles and Practices by R.S.N.Pillai and Bagavathi, 1996.
2. Fashion marketing – Mike Easey, Black well Science Ltd, 1995.
3. Marketing management – Dr B K Chatterjee Jaico, Juice Publishing house, Bombay, 1982.

**REFERENCES**

1. Advertising – C N Sonatakki, Kalyani Publishers, New Delhi, 1989.
2. Fashion from Concept to Consumers, Gini Stephens Frings, 7th Edition, Pearson Education, 2002.



**UCD 52**  
**PRACTICAL-I**  
**APPAREL DESIGNING AND TEXTILE TESTING**

**13CDH03**

**OBJECTIVES**

- To enable students to gain knowledge of basic seam and seam finishes, Children, Ladies and Mens wear.
- To enable students to know various fiber, yarn and fabric testing methods

**(Total hours = 75)**

**1. SEAMS AND FULLNESS & CHILDRENS WEAR:**

(20 hours)

Seams - Plain, Single top stitch, Flat Fell, French, Piped Seam.  
Seam finishes - Edge stitch, Double Stitch, Overcast, Herringbone.  
Hems-Seam binding, Catch stitched, Narrow Machine Stitched, Rolled or Whipped  
Fullness: Darts - Single Pointed, Double pointed.  
Tucks - pin, piped or corded.  
Pleats - knife, box, Inverted.  
Godets, Flares, Gathering - using elastic. Shirring *or* gauging.  
Ruffle – single, double, circular Ruffle.  
Preparation of One Sample for Each  
– Construction of Childrens Wear - Jabla

**2. LADIES AND MENS WEAR:**

(20 hours)

Construction of Ladies Night Pant-With Side Seam Pocket  
Construction of Mens T-shirt –with/without pocket

**3. FIBER AND YARN TESTING**

(15 hours)

Fiber Testing- Burning, Microscopic -Vegetable fibre -cotton, linen, jute. Animal fiber- silk and wool. Manmade fiber -, Polyester, Rayon Nylon  
Yarn Testing - yarn count using wrap reel, Beesleys yarn count, yarn Twist and Crimp Testing

**4. FABRIC TESTING**

(20 hours)

GSM, Fabric count, Fabric Weight, Thickness, stiffness, and shrinkage test .Colour Fastness Test - Color matching cabinet, Colorfastness to Sunlight, Washing, and Pressing, Crocking-dry & wet , Colour fastness to perspiration.

**TEXT BOOKS**

1. Practical Clothing construction – Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986.
2. Angappan, Pand R. Gopalkrishnan-Textile Testing- SSM institute of Textile Technology Students Co-operative stores Ltd., 2007

**REFERENCE**

1. Zarapkar System of Cutting, - Navneet publications, New Delhi, 2005.
2. Booth.JE, Principles of Textile Testing, CBS publishing, Distributors, New Delhi, 1996.

**JOC**

**Fashion Designing**

**UCD 53**  
**Syllabus of JOC - Fashion Designing**

Objectives:

- To impart Knowledge in Fashion designing concepts.
- To inculcate the knowledge of fabric surface embellishments.
- To enable students gain Knowledge in other Fashion accessories and Wardrobe planning.

Unit I: (4 hours)

Design-Definition, types-structural and decorative design and their requirements  
Definition of fashion, style and fad. Terms related to the fashion industry - boutique, collection, Mannequin, chic, classic, custom made, fashion shows, fashion cycle, fashion trend, and high fashion.

Unit II: (8hours)

Introduction to Fashion accessories - Definition –Anatomy- Types of Footwear-design of Leather shoes-production of leather shoes, Hand Bags-product development and design-production.Types of related accessories. Belts – Definition –Anatomy- Types –Production of Belts. Gloves – Definition –Anatomy- Types – Product development and design - Production.

Unit III: (5 hours)

Wardrobe planning for different age groups, factors influencing wardrobe selection, Fashion and season, Designing dresses for different occasions – business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, schools – girls and boys (school, high school).

Unit IV: (8 hours)

Embroidery- Materials Used, Design Sources - Methods of transferring Designs. Hand Embroidery- Chain, Feather, Stem, Fly, Satin, Herring Bone, Lazy-Daisy, Bullion Knot, French knot, and Button Hole.

Unit V: (5 hours)

Fabric Painting – Outline drawing, Shading with dry and wet strokes. Stencil preparation and use of stencils to produce designs - tooth brush spraying and other creative techniques.

**REFERENCES**

1. Elements of Fashion and Apparel Designing, Sumathi.G.D. New Age International, New Delhi, 2005.
2. Fashion- From Concept to Consumer- Gini Stephens Firings, 6th Edition Prentice Hall (1999).
3. Practical clothing construction – Part I and II, Mary Mathews, cosmic Press, Chennai (1986).
4. Practical cutting and Tailoring part II Eshwasri Anwahi, Lakhraj Hans R.B Publications, Delhi.
5. Encyclopedia of FashionAccessories,Phyllis Tortora,OM Books International,2005

**KONGUNADU ARTS AND SCIENCE COLLEGE [AUTONOMOUS]  
COIMBATORE - 641 029  
JOC - Fashion Designing**

**Question Paper Pattern**

Question Paper Pattern for 2014-15 batch onwards for **JOC - Fashion Designing**

**Duration: 3 Hours**

**Maximum Marks:100**

**Section- A (10 x 1= 10 Marks)**

Answer all the Questions

Choose the best answer with four fragments

**Section B (5 x6 = 30 Marks)**

Short Answers, either or type, one question from each unit

**Section C (5 x 12 = 60 Marks)**

Essay type Questions, either or type, one question from each unit

**SEMESTER I**  
**ENVIRONMENTAL STUDIES**

**12EVS101**

**Total Hours : 30**

**Credits: 2**

**Objectives:**

- To inculcate knowledge and create awareness about ecological and environmental concepts, issues and solutions to environmental problems.
- To shape students into good “ecocitizens”, thereby catering to global environmental needs.

**UNIT I MULTIDISCIPLINARY NATURE OF ENVIRONMENT (6 hours)**

1.1 Definition : scope and importance

1.2 **Need for public awareness\***

1.3 Natural resources

1.3.1 Types of resources

Forest Resources – Water Resources – Mineral Resources – Food Resources – Energy Resources – Land Resources.

**UNIT II ECOSYSTEMS (6 hours)**

2.1 Concept of an ecosystem

2.2 Structure and functions of an ecosystem

2.3 Producers, consumers and decomposers

2.4 Energy flow in the ecosystem

2.5 Ecological succession

2.6 Food chains, food web and ecological pyramids

**2.7 Structure and function of the following ecosystem\***

Forest Ecosystem – Grassland Ecosystem – Desert Ecosystem – Aquatic Ecosystem.

**UNIT III BIODIVERSITY AND ITS CONSERVATION (6 hours)**

3.1 Introduction – Definition – Genetic – Species and ecosystem diversity

3.2 Biogeographical classification of India

**3.3 Value of biodiversity\***

3.4 Biodiversity at global, national and local levels

3.5 India as a mega – diversity Nation

3.6 Hot spot of biodiversity

3.7 Threats to biodiversity

3.8 Endangered and endemic species of India

3.9 Conservation of Biodiversity

3.10 *insitu* Conservation of Biodiversity – *exsitu* Conservation of Biodiversity

#### **UNIT IV ENVIRONMENTAL POLLUTION (6 hours)**

- 4.1 Definition
- 4.2 Causes, effects and control measures of: Air Pollution – Water Pollution – Soil Pollution – Marine Pollution – Noise Pollution – Thermal Pollution – Nuclear Pollution.
- 4.3 Solid Waste Managements: causes, effects, control measures of urban and industrial wastes.
- 4.4 Role of individual in prevention of pollution\*.**
- 4.5 Pollution case studies – domestic waste water, effluent from paper mill and dyeing, cement pollution.
- 4.6 Disaster Management – Flood, Drought, Earthquake, Tsunami, Cyclone and Landslide.

#### **UNIT V SOCIAL ISSUES AND THE ENVIRONMENT (6 hours)**

- 5.1 Sustainable Development
- 5.2 Urban problems related to energy
- 5.3 Water Conservation : Rain Water Harvesting and Watershed Management
- 5.4 Resettlement and rehabilitation of people, its problems and concerns, case studies – Narmatha Valley Project.
- 5.5 Environmental ethics, issues and possible solutions.
- 5.6 Climatic change, global warming, ozone layer depletion, acid rain, nuclear accidents and holocaust, case studies – Hiroshima and Nagasaki, Chernobyl.
- 5.7 Consumerism and waste products
- 5.8 Environmental Protection Act
- 5.9 Air Pollution Act (Prevention and Control)
- 5.10 Water Pollution Act (Prevention and Control)
- 5.11 Wild Life Protection Act
- 5.12 Forest Conservation Act
- 5.13 Issues involved in enforcement of environmental legislation
- 5.14 Public awareness\***
- 5.15 Human population and the environment
  - 5.15.1 Population Growth and Distribution
  - 5.15.2 Population Explosion – Family Welfare Programme\***
  - 5.15.3 Environment and Human Health
  - 5.15.4 Human Rights\***
  - 5.15.5 Value Education\***
  - 5.15.6 HIV / AIDS\***
  - 5.15.7 Women and Child Welfare
  - 5.15.8 Role of Information Technology in Environment and Human Health\*.**

**\* Self Study (Questions may be asked from these topics also)**

#### **Text Book**

1. P.Arul, A Text Book of Environmental Studies, Environmental Agency, No 27, Nattar street, Velacherry main road, Velacheery, Chennai – 42, First Edition, Nov. 2004.

## **References**

1. Purohit Shammi Agarwal, A text Book of Environmental Sciences, Publisher Mrs. Saraswati Prohit, Student Edition, Behind Naswan Cinema Chopansi Road, Jodhpur.
2. Dr.Suresh and K.Dhameja, Environmental Sciences and Engineering, Publisher S.K.Kataria & Sons, 424/6, Guru Nanak Street, Vaisarak, Delhi – 110 006.
3. J.Glynn Henry and Gary W Heinke, Environmental Science and Engineering, Prentice Hall of India Private Ltd., New Delhi – 110 001.

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### **Question Paper Pattern**

**(External only)**

Duration: 3 hours

Total Marks : 50

Answer all Questions (5 x 10 = 50 Marks)

Essay type, either or type questions from each unit.

**SEMESTER II  
MORAL AND ETHICS**

**14VED201**

**Total hours: 30  
CREDITS: 2**

**UNIT I**

Introduction to Moral and Ethics; Aim of Education (6 Hours)

**UNIT II**

Ethics and Culture (6 Hours)

**UNIT III**

Early Life of Swami Vivekananda (6 Hours)

**UNIT IV**

The Parliament of Religions (6 Hours)

**UNIT V**

Teachings of Swami Vivekananda (6 Hours)

**Text Book:**

Value Based Education - Kongunadu Arts and Science College, Coimbatore,  
First Edition, 2014.

**References :**

1. **Moral and Ethics** - Published by Dr.M.Aruchami, Secretary and Director, Kongunadu Arts and Science College, Coimbatore, First Edition, June 2007.
2. **“Vivekananda A Biography”** - Swami Nikilananda, 29<sup>th</sup> Reprint, January 2013, Published by Swami Bodhasarananda, Adhyaksha, Advaita Ashrama, Mayavati, Champawat, Uttarakhand, Himalayas.

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**Question Paper Pattern**

**(External only)**

Duration: 3 hours

Total Marks: 50

Answer all Questions (5 x 10 = 50 Marks)

Essay type, either or type questions from each unit.



# **NON-MAJOR ELECTIVE**

**SEMESTER III  
HUMAN RIGHTS**

**12UHR3N1**

**Total Hours :30**

**CREDITS: 2**

**Objectives:**

- To impart knowledge of human values, ethics and human rights to the students.
- To reinforce positive personality traits and enhance physical, mental, social ethical and spiritual well-being of the students.

**UNIT – I : Concept of Human Values, Value Education towards**

**Personal Development (6 hours)**

Aim of education and value education; Evolution of value-oriented education; Concept of human values; types of values; Components of value education.

**Personal Development :**

Self-analysis and introspection; sensitization towards gender equality, physically-challenged, intellectually-challenged. Respect to - age, experience, maturity, family members, neighbours, co-workers.

**Character Formation towards Positive Personality:**

Truthfulness, Constructivity, Sacrifice, Sincerity, Self-Control, Altruism, Tolerance, Scientific vision.

**UNIT – II : Value Education towards National and Global Development**

**National and International Values: (6 hours)**

Constitutional or national values - Democracy, socialism, secularism, equality, justice, liberty, freedom and fraternity. Social Values - Pity and probity, self-control, universal brotherhood.

Professional Values - Knowledge thirst, sincerity in profession, regularity, punctuality and faith.

**Religious Values - Tolerance, wisdom, character\*.**

Aesthetic Values - Love and appreciation of literature and fine arts and respect for the same.

National Integration and international understanding.

**UNIT – III : Impact of Global Development on Ethics and Values (6 hours)**

Conflict of cross-cultural influences, mass media, cross-border education, materialistic values, professional challenges and compromise.

Modern challenges of adolescent emotions and behaviour; sex and spirituality: comparison and competition; positive and negative thoughts.

Adolescent emotions, arrogance, anger, sexual instability, selfishness, defiance.

**UNIT- IV : Therapeutic Measures (6 hours)**

Control of the mind through

- a. Simplified physical exercise

- b. Meditation – objectives, types, effect on body, mind and soul
- c. Yoga – objectives, types, Asanas

**d. Activities:\***

- (i) Moralisation of Desires
- (ii) Neutralisation of Anger
- (iii) Eradication of Worries
- (iv) Benefits of Blessings

**UNIT- V : Human Rights**

**(6 hours)**

1. Concept of Human Rights – Indian and International Perspectives
  - a. Evolution of Human Rights
  - b. Definitions under Indian and International documents
2. Broad classification of Human Rights and Relevant Constitutional Provisions.
  - a. Right to Life, Liberty and Dignity
  - b. Right to Equality
  - c. Right against Exploitation
  - d. Cultural and Educational Rights
  - e. Economic Rights
  - f. Political Rights
  - g. Social Rights
  - h. Rights to Information
3. Human Rights of Women and Children
  - a. Social Practice and Constitutional Safeguards
    - (i) Female Foeticide and Infanticide
    - (ii) Physical assault and harassment
    - (iii) Domestic violence
    - (iv) Conditions of working women
4. Institutions for Implementation
  - a. Human Rights Commission
  - b. Judiciary
5. Violations and Redressal
  - a. Violation by State
  - b. Violation by Individuals
  - c. Nuclear weapons and terrorism
  - d. Safeguards

**\* Self-study(Questions may be asked from these topics also)**

**Prescribed Book :** Human Rights, Compiled by Bharathiar University, Coimbatore - 46

## **SEMESTER IV**

### **WOMEN'S RIGHTS**

**12UWR4N2**

**Total Hours: 30**

**CREDITS: 2**

#### **Objectives:**

- **To impart specific and up-to-date information about national and international laws related to the welfare of women.**
- **To create awareness about crimes against women, legal rights of women in the country and access to justice.**

#### **UNIT I (6 hours)**

##### **Laws, Legal Systems and Change**

Definition - Constitutional law, CEDAW and International Human Rights – Laws and Norms – Laws and Social Context – Constitutional and Legal Framework.

#### **UNIT II (6 hours)**

##### **Politics of land and gender in India**

Introduction – Faces of Poverty – Land as Productive Resources – Locating Identities – Women's Claims to Land – Right to Property - Case Studies.

#### **UNIT III (6 hours)**

##### **Women's Rights: Access to Justice**

Introduction – Criminal Law – Crime Against Women – Domestic Violence – **Dowry Related Harassment\* and Dowry Deaths\*** – Molestation – Sexual Abuse and Rape – Loopholes in Practice – Law Enforcement Agency.

#### **UNIT IV (6 hours)**

##### **Women's Rights**

Violence Against Women – Domestic Violence - The Protection of Women from Domestic Violence Act, 2005 - The Marriage Validation Act, 1982 - The Hindu Widow Re-marriage Act, 1856 - The Dowry Prohibition Act, 1961

#### **UNIT V (6 hours)**

##### **Special Women Welfare Laws**

Sexual Harassment at Work Places – Rape and Indecent Representation – The Indecent Representation (Prohibition) Act, 1986 - Immoral Trafficking – The Immoral Traffic (Prevention) Act, 1956 - Acts Enacted for Women Development and Empowerment - Role of Rape Crisis Centers.

**\* Self-study(Questions may be asked from these topics also)**

**Prescribed Book :**

Women's Rights Compiled by Kongunadu Arts and Science College,  
Coimbatore-29.

**References**

Nitya Rao "Good Women do not Inherit Land" Social Science Press and Orient Blackswan 2008  
International Solidarity Network "Knowing Our Rights" An imprint of Kali for Women 2006  
P.D. Kaushik "Women Rights" Bookwell Publication 2007  
Aruna Goal "Violence Protective Measures for Women Development and Empowerment" Deep  
and Deep Publications Pvt. 2004  
Monica Chawla "Gender Justice" Deep and Deep Publications Pvt. Ltd.2006  
Preeti Mishra "Domestic Violence Against Women" Deep and Deep Publications Pvt. 2007  
Clair M. Renzetti, Jeffrey L. Edleson, Raquel Kennedy Bergen, Source Book on "Violence  
Against Women" Sage Publications 2001.

# **ENVIRONMENTAL STUDIES**

# **VALUE BASED EDUCATION**