

B.Sc. FASHION TECHNOLOGY

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	HRS/ WEEK	CREDIT	CIA MARKS	SE MARKS	TOTAL MARKS
I	14U1LT1/ LA1/ LF1/LH1/LU1	I	Language-I		6	3	40	60	100
	14UCN1E1	II	English - I		6	3	40	60	100
	14UFT1A1P	III	Allied I	Fashion Illustration – Practical	6	4	40	60	100
	14UFT1C1	III	Core I	Fashion Designing	6	4	40	60	100
	14UFT1M1P	III	Major Based Elective-I	Fashion Designing - Practical	3	3	40	60	100
	14UCN1VE	IV	Value Education	Value Education	3	3	40	60	100
TOTAL					30	20	240	360	600
II	14U2 LT2/ LA2/ LF2/LH2/LU2	I	Language - II		6	3	40	60	100
	14UCN2E2	II	English - II		6	3	40	60	100
	14UFT2A2	III	Allied II	Textile Science	5	4	40	60	100
	14UFT2C2	III	Core II	Basic Garment Construction	6	4	40	60	100
	14UFT2M2P	III	Major Based Elective-II	Basic Garment Construction – Practical	3	3	40	60	100
	14UFT2N1P	IV	Non Major Elective-I #		2	2	40	60	100
	14UCN2ES	IV	Environmental Studies	Environmental Studies	2	2	40	60	100
TOTAL					30	21	280	420	700
III	14U3 LT3/ LA3/ LF3/LH3/LU3	I	Language - III		6	3	40	60	100
	14UCN3E3	II	English - III		6	3	40	60	100
	14UFT3A3P	III	Allied III	Pattern making and Garment Construction for Children's Wear -Practical	6	4	40	60	100
	14UFT3C3	III	Core III	Principles of Pattern Making	5	4	40	60	100
	14UFT3M3	III	Major Based Elective - III	Garment Manufacturing Technology	3	3	40	60	100
	14UFT3N2P	IV	Non Major Elective –II#		2	2	40	60	100
	14UCN3S1	IV	Skill Based Elective -I	Soft Skills	2	2	40	60	100
TOTAL					30	21	280	420	700
IV	14U4 LT4/ LA4/ LF4/LH4/LU4	I	Language – IV		6	3	40	60	100
	14UCN4E4	II	English -IV		6	3	40	60	100
	14UFT4A4P	III	Allied IV	Pattern Making and Garment Construction for Women's Wear - Practical	6	4	40	60	100
	14UFT4C4	III	Core IV	Wet Processing	5	4	40	60	100
	14UFT4C5P	III	Core V	Wet Processing - Practical	5	4	40	60	100
	14UFT4S2P	IV	Skill Based Elective – II	Surface Embellishment -Practical	2	2	40	60	100
	14UCN4EA	V	Extension Activities	NCC, NSS, ETC	-	2	-	-	-
	14UFT4EC1		Extra Credit – I	Visual Merchandising	-	4*	-	100*	100*
	14UFT4EC2		Extra Credit - II	Internship	-	4*	-	100*	100*
TOTAL					30	22	240	360	600
V	14UFT5C6P	III	Core VI	Pattern Making and Garment Construction for Men's Wear - Practical	5	4	40	60	100
	14UFT5C7	III	Core VII	Traditional Indian Costumes and Embroidery	4	4	40	60	100
	14UFT5C8	III	Core VIII	Garment Quality and Cost Control	4	4	40	60	100
	14UFT5C9	III	Core IX	Textile Testing	4	4	40	60	100
	14UFT5C10P	III	Core X	Textile Testing - Practical	4	4	40	60	100
	14UFT5C11P	III	Core XI	Computer Aided Designing - Practical	4	4	40	60	100
	14UFT5M4	III	Major Based Elective–IV	Fashion and Clothing Psychology	3	3	40	60	100
	14UFT5S3	IV	Skill Based Elective - III	Cosmetology	2	2	40	60	100
14UFT5EC3		Extra Credit - III	Export Trade	-	4*	-	100*	100*	
TOTAL					30	29	320	480	800
VI	14UFT6C12	III	Core XII	Apparel Merchandising and Marketing	5	4	40	60	100
	14UFT6C13	III	Core XIII	Eco Dyeing	5	4	40	60	100
	14UFT6C14	III	Core XIV	Fabric Structure and Design	5	4	40	60	100
	14UFT6C15P	III	Core XV	Fabric Structure and Design - Practical	4	4	40	60	100
	14UFT6C16P	III	Core XVI	Fashion Portfolio Presentation - Practical	4	4	40	60	100
	14UFT6C17	III	Core XVII	Fabric Care	4	4	40	60	100
	14UFT6S4P	IV	Skill Based Elective-IV	Accessories Making - Practical	2	2	40	60	100
	14UCN6GS	V	Gender Studies	Gender Studies	1	1	40	60	100
14UFT6EC4		Extra Credit - IV	Home Science	-	4*	-	100*	100*	
TOTAL					30	27	320	480	800
GRAND TOTAL					180	140	1680	2520	4200

Non Major Elective Courses offered to the other Departments:

SEM	COURSE TITLE
II	Hand Embroidery - Practical
III	Painting Techniques - Practical

* Not considered for Grand Total and CGPA

SEMESTER I: ALLIED I

FASHION ILLUSTRATION - PRACTICAL

Course Code	:	14UFT1A1P	Max Mark	:	100
Hours/Week	:	6	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To learn the basic techniques of sketching.
- To know the drawing methods of fashion figures.
- To know the sketching methods of different dresses and ornaments.

PREPARE SKETCHES FOR THE FOLLOWING

1. Free Hand Drawing. **2 hours**
2. Basics of Shading. **2 hours**
3. Lay figure - 7½ head theory. **4 hours**
4. Fashion Figure - 8 head theory **4 hours**
5. Fashion figure – 10 head theory. **4 hours**
6. Facial features- Eyes, nose, lips, ears. **4 hours**
7. Face, Hands, Legs-Different Positions. **4 hours**
8. Different for Hairstyle for women. **4 hours**
9. Different poses of fashion figure (women and men). **4 hours**

DRAW & SHADE THE FOLLOWING WITH SUITABLE SHAPE & SIZE

10. Different types of Collars. **4 hours**
11. Different types of Sleeves. **4 hours**
12. Different types of Necklines. **4 hours**
13. Different types of Skirts. **4 hours**
14. Different types of Ladies Tops. **4 hours**
15. Different types of Shirt.. **4 hours**
16. Different types of Pant (full and half). **4 hours**
17. Different types of Salwar Kameez with Fashion Figure. **4 hours**
18. Illustrate figures using Textured effects in garments. **4 hours**

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|---|----------------|
| 19. Illustrate figures using Rendering effects in garments. | 4 hours |
| 20. Illustrate figures for Casual wear (women and men). | 4 hours |
| 21. Illustrate figures for Formal wear (women and men). | 4 hours |
| 22. Illustrate figures for Stylish wear (women and men). | 4 hours |
| 23. Different types of Accessories-Bags, Foot wear, Hats. | 3 hours |
| 24. Different types of Ornaments – Traditional, Modern and Antique. | 3 hours |

SEMESTER I: CORE I

FASHION DESIGNING

Course Code	:	14UFT1C1	Max. Marks	:	100
Hours/Week	:	6	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To gain knowledge about design and fashion accessories.
- To know the structural and decorative designs.
- To design the garment for unusual figures.

UNIT-I: DESIGN & ELEMENTS OF DESIGN

18 hours

Design –Definition, Types- Structural and Decorative Design, # Requirements of a Good Structural and Decorative Design #. Application of Structural and Decorative Design in the Dress, Elements of Design - Line, Shape or Form, Color, Size and Texture.

UNIT-II: PRINCIPLES OF DESIGN, ACCESSORIES & TRIMMINGS

18 hours

Principles of Design – Balance, Rhythm, Harmony, Emphasis and Proportion. Fashion Accessories- Shoes, Hand Bags, Hats and Tie -Different Types/Shapes. Application of Trimmings and Decorations on Accessories by # Lace, Ric Rac, Appliqué, Embroidery #, Smocking, fastness, Belts and Bows, Faggoting, Ruffles, Patch work and Quilting.

18 hours

UNIT-III: COLOURS

Colours – Importance. Terms- Value, Hue, Intensity. Colour Theory – Primary, Secondary and Tertiary, Complimentary - Split Complimentary, Double Complimentary, Monochromatic, Analogous, Traid Colours. Cool Colours and Warm Colours. CMYK Colours. Moods of Colour.

UNIT-IV: WARDROBE PLANNING

18 hours

Wardrobe – Definition, Wardrobe Planning Definition – Purpose of a wardrobe plan – Taste and clothing budget – Developing an individual clothing budget – Stretching the clothing income by sewing at home – Procedure for planning wardrobe – Needs of wardrobe planning – Essential considerations in wardrobe building – Building a versatile wardrobe – Wardrobe planning for different occasions.

UNIT-V: FIGURE IRREGULARITIES

18 hours

Designing dress for unusual figures becoming and unbecoming, for the following Figure Types - Stout Figure, Thin Figure, Slender Figure, Narrow Shoulders, Broad Shoulders, Round Shoulders, Large Bust, Flat Chest, Large Hip, Large Abdomen, # Round Face, Large Face, Small Face, Prominent Chin and Jaw, Prominent forehead #.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B - 1 Khurana and Sethi, Introduction to Fashion Technology, Fire Well Publication, New Delhi, 2007.

T.B - 2 Gupta et al, Text Book of Clothing and Textiles and Laundry, Kalyani Publishers, New Delhi, 2005.

T.B - 3 Mary Mathews, Practical Clothing Construction-Part I, Cosmic Press, Chennai, 1997.

T.B - 4 Pundir. N, Fashion Technology Today and Tomorrow, Mittal Publication, New Delhi, 2007.

T.B - 5 Narang, Hand Book of Fashion Technology, Asia Pacific Business Press Inc, New Delhi.

T.B-6 Fashion Designing- Study Material prepared by the Department.

Unit I	Chapter IV	T.B-1,	Chapter II	T.B-2
Unit II	Chapter XIII	T.B-3,	Chapter VII	T.B-4
Unit III	Chapter V	T.B-5		
Unit IV	Chapter I	T.B-6		
Unit V	Chapter VI	T.B-5.		

Books for References:

1.Betsy Hosegood, "The Complete Book of Sewing", Dorling Kindersley Limited, London, 2006.

2.Judith Rasband, "Wardrobe Strategies for Women", Judith Rasband, Delmar Publishers, London, 1995.

3.Susheela Dantiyagi, "Fundamental of Textiles and Their Care", 5th Edition, Orient Longman Limited, New Delhi, 2006.

4.Dickerson Gitty.G, "Inside the Fashion Business", Pearson Education, India, 2004.

SEMESTER I: MAJOR BASED ELECTIVE I

FASHION DESIGNING - PRACTICAL

Course Code :	14UFT1M1P	Max Marks :	100
Hours/ Week :	3	Internal Marks :	40
Credit :	3	External Marks :	60

Objectives:

- To gain knowledge about design and fashion accessories.
- To know the structural and decorative designs.
- To design the garment for unusual figures.

1. PREPARE THE FOLLOWING CHARTS 4 hours

- Prang Colour Charts
- Value Chart
- Intensity Chart

2. ILLUSTRATE GARMENT DESIGNS FOR THE ELEMENTS OF DESIGN 5 hours

- Line
- Color
- Texture
- Shape
- Size
- Movement

3. ILLUSTRATE GARMENT DESIGNS FOR THE PRINCIPLES OF DESIGN 5 hours

- Balance in dress
- Harmony in dress
- Emphasis in dress
- Proportion in dress
- Rhythm in dress
- Repetition in dress
- Gradation in dress
- Radiation in dress
- Contrast in dress
- Dominance in dress

4. ILLUSTRATE THE COLOR HARMONY IN DRESS DESIGN 5 hours

- Monochromatic Colour Harmony
- Analogous Color Harmony
- Complimentary Colour Harmony
- Double complimentary Colour Harmony
- Split Complimentary Colour Harmony
- Traid Colour Harmony

5. **ILLUSTRATE THE PRINTS DRESS DESIGN FOR
FIGURE IRREGULARITIES** **5 hours**
- Thin figure
 - Stout figure
 - Broad shoulders
 - Large bust
 - Round face
6. Illustrate the Painting Texture in dress design **4 hours**
7. Illustrate the Textured Collage Board in dress design **4 hours**
8. Illustrate the Geometrical design repetition in dress design **4 hours**
9. Illustrate the Tattoo in dress design **4 hours**
10. Illustrate the Hounds Tooth in dress design **4 hours**

SEMESTER I: VALUE EDUCATION

VALUE EDUCATION

Course Code :	14UCNIVE	Max. Marks :	100
Hours/Week :	3	Internal Marks :	40
Credit :	3	External Marks :	60

Objectives:

- To impart the meaning and purpose of life.
- To understand basic culture and individual qualities of human.
- To give awareness on human rights and anti-corruption.

UNIT-I: PURPOSE AND PHILOSOPHY OF LIFE

5 hours

Purpose and philosophy of life-Basic needs, safety measures, ethics, wisdom of perfection stages. Law of nature – unified force, cause and effect system. Education – nonviolence, five-fold moral culture. Protecting nature.

UNIT-II: GREATNESS OF LIFE FORCE AND MIND

5 hours

Greatness of life force and mind – maintaining youthfulness, bio-magnetism and body, food-transformation into seven minerals, reasons for hunger, circular movement of life force, mind-development of mind in ten stages, mental frequency, meditation –benefits.

UNIT-III: INDIVIDUAL QUALITIES

5 hours

Individual qualities-Indian culture – four structures – spiritually guided young age, family life, introspection – analysis of thought, six roots for thoughts, introspection for analysis of thoughts, practical technique for analysis of thoughts, service.

Desire – moralization of desire, analysis of desire. Anger-definition, neutralization of anger-method of neutralization of anger. Benefits of blessings, greatness of friendship. Love and compassion.

UNIT-IV: HUMAN RIGHTS

5 hours

Human rights – introduction –definition of human rights and duties – nature of human rights – characteristics of human rights – functional principles of human rights – historical backgrounds of human rights – classification of human rights.

Theories of human rights-theory of natural rights, legal theory of rights, historical theory of rights, social theory of rights, economic theory of rights and human duties.

UNIT-V: ANTI-CORRUPTION

5 hours

Anti-corruption- corruption – causes, anticorruption measures in India – CBI, Santhanam Committee's recommendations – CVC (Central Vigilance Commission) – functions – LOKPAL – Salient features of LOKPAL bill 2001-Lokayukta, Right to Information Act-features and advantages.

SEMESTER II: ALLIED II

TEXTILE SCIENCE

Course Code	:	14UFT2A2	Max. Marks	:	100
Hours/Week	:	5	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To gain the basic knowledge of textiles.
- To learn the properties and manufacturing of different fibers.
- To enable the students to know about basic manufacturing fabrics.

UNIT-I: FIBRES CLASSIFICATION **15 hours**

Introduction to the Fibers - Classification of Textile Fibers- Natural and Manmade fibers, Characteristics - Primary and Secondary of Textile Fibers.

UNIT-II: FIBRES MANUFACTURING PROCESS **15 hours**

Manufacturing Process, # Properties and Uses of Natural Fibers # - Cotton, Linen, Jute, Silk, Wool, Manmade fibers- Nylon, Polyester, Polyamide, Acrylic. Regenerated fibers- Viscose Rayon, Acetate Rayon.

UNIT-III: SPINNING TECHNOLOGY **15 hours**

Spinning - Definition Types - Chemical and Mechanical Spinning- # Blending, Opening, Cleaning #, Doubling, Carding, Combing, Drawing, Roving, Spinning.

UNIT-IV: WOVEN **15 hours**

Weaving – Definition, Elements of Weaving – Design, Draft and Peg Plan. Parts and functions – Primary and Secondary of a loom. Basic Weaves – Plain, Twill, # Satin #. Novelty weaves - Jacquard and Dobby.

UNIT-V: KNITTING AND NON-WOVENS **15 hours**

Definition - Classification of Weft Knitting. Weft Knitting Structure – Plain, Purl, Rib, Interlock. Warp Knitting Structure – Tricot, Rachel, Crochet. Other Processes – Nonwoven and its techniques for preparing nonwovens, Felting, Fusing, Bonding, Lamination, # Netting, Braiding #.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Corbman .B.P, Textile – Fiber to Fabric Third Edition, International Students Edition, McGraw Hill Book Co, Singapore, 1985.

T.B-2 Gupta et al, Text Book of Clothing and Textiles and Laundry, 5th Edition, Kalyani Publishers, New Delhi, 2006.

Unit I	Chapter I	T.B-1,	Chapter II	T.B-2
Unit II	Chapter IV, V	T.B-1,	Chapter II	T.B-2
Unit III	Chapter II	T.B-1		
Unit IV	Chapter IV	T.B-1,	Chapter II	T.B-2
Unit V	Chapter V, VIII	T.B-1.		

Books for References:

- 1.Mishra.S.P, “ Fibre Science and Technology”, New Age International, 2000.
- 2.Nirr Board, “The Complete Technology Book On Textile Spinning, Weaving”, Finishing And Printing”, National Institute Of Industrial Re, 2009.
- 3.Subhash Kumar Batra, Behanm Pourdeyhimi, “Introduction to Nonwovens Technology”, DEStech Publications, Inc., 2012.
- 4.Behera. B. K, Hari. P. K, “Woven Textile Structure”, Theory and Applications, Elsevier, 2010.

SEMESTER II: CORE II

BASIC GARMENT CONSTRUCTION

Course Code	:	14UFT2C2	Max. Marks	:	100
Hours/Week	:	6	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To gain knowledge in seams and its finishes.
- To learn about hems and fullness.
- To enable the students in basic garment construction details.

UNIT- I: SEAMS & SEAM FINISHES 18 hours

Seams – Definition, Types – Plain Seam, Top-Stitched Seam, Flat fell Seam, French Seam, Manutua Maker’s Seam and Piped Seam. Seam Finishes- Definition, Types- Pinked Finishes, # Edge Stitched Finish, Double Stitch Finish #, Overcast Finish, Herringbone Finished Seam and Bound Seam Edge Finish.

UNIT-II: HEMS & FULLNESS 18 hours

Hems- Definition, Types – Stitched and Turned Hem, Seam Binding Hem Finish, Catch Stitched Hem, Narrow Machine Stitched Hem. Fullness-Definition, Types - Darts, Tucks, Pleats, # Flares and Godets #, Gathers and Frills.

UNIT-III: FACING, PLACKETS & FASTNESS 18 hours

Facings - Bias Facings, Shaped Facing and Decorative Facing. Binding - Single bias Binding, Double bias binding. Plackets - Definition, # Characteristics of a good placket #, Types - Inconspicuous Plackets and Conspicuous Plackets. Fastness – Definition, Types – Buttons, Snaps & Press Buttons, Hooks & Eyes, Eyelets & Cord.

UNIT-IV: SLEEVES & COLLARS 18 hours

Sleeves-Definition, Types - Set-in-Sleeves-Plain Sleeve, Puff Sleeve, Bishop Sleeve, Bell and Circular. Modified armhole- Squares Armhole, Cap Sleeve and Magyar Sleeve. Sleeve and Bodice combined- Raglan Sleeve. Collars -Definition, Types - Peter pan, Scalloped, Sailor, Rippled, Full Shirt Collar, # Open Collar and Shawl Collars#.

UNIT – V: POCKETS & YOKES 18 hours

Pockets-Types - # Patch pocket #, Bound pocket, Pocket in a Seam, Front hip pocket. Yokes – Definition, Types – Yoke with fullness, Yoke within the yoke. Yoke supporting fullness.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B - 1 Mary Mathews, Practical Clothing Construction-Part I & II, Cosmic Press, Chennai, 1974.

UNIT I	Chapter V	T.B –1
UNIT II	Chapter VI & XI	T.B – 1
UNIT III	Chapter VII, IX & X	T.B – 1
UNIT IV	Chapter VII & VIII	T.B – 1
UNIT V	Chapter XI & XII	T.B – 1.

Books for References:

- 1.Claire B.Shaeffler, “The Complete Book of Sewing Shortcuts”, Sterling Publishing Company, Inc., 1981.
- 2.Edith Callahan, Edna, Callahan . M, Edith Barry, “Garment Construction”, Wildside Press LLC, 2008.
- 3.Pat Moyes, “Sewing Basics: Creating a Stylish Wardrobe with Step-by-step Techniques”, Taunton Press, 1999.
- 4.Janace E.Bubonia, “Apparel Quality: A Guide to Evaluating Sewn Products”, Bloomsbury Publishing, USA, 2014.

SEMESTER II: MAJOR BASED ELECTIVE II

BASIC GARMENT CONSTRUCTION – PRACTICAL

Course Code	:	14UFT2M2P	Max. Marks	:	100
Hours	:	3	Internal Marks	:	40
Credit	:	3	External Marks	:	60

Objectives:

- To gain knowledge in seams and its finishes.
- To learn about hems and fullness.
- To enable the students in basic garment construction details.

1. Preparation of samples for Seams and Seam Finishes. **5 hours**
2. Preparation of samples for Hems. **5 hours**
3. Preparation of samples for Fullness. **5 hours**
4. Preparation of samples for Facings and Binding. **5 hours**
5. Preparation of samples for Plackets and Fasteners. **5 hours**
6. Preparation of samples for Sleeves - Plain Sleeve/Puff Sleeve (any one type). **5 hours**
7. Preparation of samples for Yokes -with and without Fullness. **5 hours**
8. Preparation of samples for Collar- Peter Pan Collar, Full Shirt Collar and Shawl Collar. **5 hours**
9. Preparation of samples for Pocket - Patch, Bound and Side Seam. **5 hours**

SEMESTER II: NON MAJOR ELECTIVE I

HAND EMBROIDERY - PRACTICAL

Course Code	:	14UFT2N1P	Max Marks	:	100
Hours/ Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

Objectives:

- To understand the different types of embroidery stitches.
- To acquire practical knowledge in advance and surface embroidery.

1. BASIC HAND STITCHES 7 hours

- a. Running – Whipped Running Stitch, Threaded Running Stitch
- b. Hemming
- c. Back Stitch - Whipped Back Stitch, Threaded Back Stitch

2. BASIC EMBROIDERY STITCHES 8 hours

- a. Chain stitch – Magic Chain Stitch
- b. Fern Stitch
- c. Stem Stitch
- d. Lazy Daisy Stitch - Lazy Daisy with Straight Stitch
- e. Blanket (or) Button Hole Stitch
- f. Satin – Slanting Satin Stitch

3. ADVANCED EMBROIDERY STITCHES 8 hours

- a. French Knot
- b. Bullion Knot
- c. Feather – Double Feather Stitch, Closed Feather Stitch
- d. Herring bone – Threaded Herring Bone Stitch
- e. Cross Stitch

4. OTHER SURFACE EMBROIDERY 7 hours

- a. Cut work
- b. Mirror work
- c. Applique
- d. Patch sequence
- e. Tasseled – Corded Tassled
- f. Fringes

SEMESTER II: ENVIRONMENTAL STUDIES

ENVIRONMENTAL STUDIES

Course Code	:	14UCN2ES	Max Marks	:	100
Hours/ Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

SEMESTER III: ALLIED III

PATTERN MAKING AND GARMENT CONSTRUCTION FOR CHILDREN'S WEAR - PRACTICAL

Course Code	:	14UFT3A3P	Max Marks	:	100
Hours/Week	:	6	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To create different types of patterns for children.
- To suggest suitable fabrics, colours and designs for all patterns.
- To learn the drafting procedures for children's wear.

Instructions:

- List the Measurements
- Calculate the Required Materials and Cost
- Suggest Suitable Fabrics, Colors and Designs
- Prepare Economical Layout.

Designing, Draft and construct the following Garments

1. Infant wears-Baby bed/Laytee. **12 hours**
2. Infant wears- Bib, Panty and Jabla. **12 hours**
3. Baba suit / Romper. **14 hours**
4. Summer frock-with suspenders at Shoulder Line, without Sleeve. **12 hours**
5. Yoke frock- yoke at Neck Line, Puff Sleeve, gathered skirt /Pleated skirt. **14 hours**
6. Slack Shirt- Open Collar, Pocket & Without yoke. **14 hours**
7. Knickers - Elastic Waist. **12 hours**

SEMESTER III: CORE III

PRINCIPLES OF PATTERN MAKING

Course Code	:	14UFT3C3	Max Marks	:	100
Hours/Week	:	5	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To study the methods of pattern making and its alternation.
- To gain knowledge in drafting, draping and flat pattern alteration.
- To learn the techniques of good fit.

UNIT-I: BODY MEASUREMENTS AND TOOLS

15 hours

Body Measurements – Importance, # Preparation for Measuring #. Ladies Measurements, Children’s measurement, Boy’s and Men’s measurements. Tools for clothing construction – Cutting tools, measuring tools, marking tools, general tools, pressing tools.

UNIT-II: PATTERN MAKING

15 hours

Pattern Making – Methods of pattern making – Drafting, Draping - Merits and Demerits, # Types of paper patterns#. Principles of pattern drafting, pattern details.

UNIT-III: DRAFTING AND DRAPING

15 hours

Steps in Drafting Basic Bodice Front, Back and Sleeve. Draping- Preparation of Body Form, Steps in Draping a Basic Bodice Front, Back and Sleeve. Pattern Grading - Definition, Types, # Pattern Grading for basic bodice Front, Back and Sleeve #.

UNIT- IV: FITTING TECHNIQUES

15 hours

Fitting- Standards of Good Fit, Fitting Techniques. Styles created by shifting of blouse darts, adding fullness to the Bodice, Converting darts to seams and partial yokes.# Steps in preparing & Checking Fitness for a Blouse #. Pattern Alteration- Importance, General Principles and Common Pattern alternation in Blouse.

UNIT- V: FABRIC HANDLING

15 hours

Selection of fabrics for different Garment Styles # - Steps in preparing Fabric for Cutting, Hints on handling of different fabrics such as Slippery Fabrics, Stripes, Plaids, Checks, Pile Fabrics with up & down design, Lay out and Types.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Mary Mathews, Practical Clothing Construction-Part I & II, Cosmic Press, Chennai, 1974.

T.B-2 Zarapkar, System of Cutting, Navneet Publications, India, 2007.

T.B- 3 Gupta et al, Text Book of Clothing and Textiles and Laundry, 4th Edition, Kalyan Publishers, New Delhi, 2006.

Unit I	Chapter I & II	T.B-1		
Unit II	Chapter I & II	T.B-1,	Chapter II & III	T.B-2
Unit III	Chapter V & X	T.B-1		
Unit IV	Chapter III & IV	T.B-1		
Unit V	Chapter II	T.B-3.		

Books for References:

1. Cooklin, "Pattern Grading for Women's Clothes", Blackwell Publication, Noida, 2004.
2. Cooklin, " Pattern Cutting for Women's Outer Wear", Blackwell Publication, U.S.A, 2005.
3. Winifred Aldrich, "Metric Pattern Cutting" – Third Edition, Blackwell Science, 2003.
4. Bane Allyne, "Flat Pattern Design", McGraw Hill, USA, 2002.
5. Goulborn Margaita, "Introducing Pattern Cutting, Grading and Modeling", Batsford Publication, UK, 2000.

SEMESTER III: MAJOR BASED ELECTIVE III

GARMENT MANUFACTURING TECHNOLOGY

Course Code :	14UFT3M3	Max. Marks :	100
Hours/Week :	3	Internal Marks :	40
Credit :	3	External Marks :	60

Objectives:

- To gain knowledge about spreading, marking and cutting techniques.
- To study about the sewing machineries, stitching mechanisms.
- To learn the classification of sewing machines, parts and its functions.

UNIT-I: SPREADING & MARKING METHODS

9 hours

Spreading – Definition, Function, Types - Hand and Machine Spreading. Marking – Methods of marking, Efficiency of Marker Plan, # Requirements of Marker Planning #.

UNIT-II: CUTTING TECHNOLOGY

9 hours

Cutting Technology - Definition, # Function #, Equipments – Straight Knife, Band Knife, Round Knife, Die cutters, Notches, Drills and Thread Marker, Computer Controlled Cutting Machine.

UNIT-III: SEWING MACHINERIES

9 hours

Sewing Machineries-Classification of Sewing Machines, Parts and Functions of Single Needle Machine, Over Lock Machine, Bar Taking Machine, Button Hole 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-IV: STITCHING MECHANISMS

9 hours

Stitching Mechanisms- Needle, Bobbin and Bobbin Case, Bobbin Winding, Loops and Loop Spreader, Threading Finger, Upper and Lower Threading, Auxiliary Hooks, Tension Disc-Upper and Lower Thread Tension, # Stitching Auxiliaries Pressure Foot and its Types #.

UNIT-V: FUSING

9 hours

Fusing – Definition, Advantages of using interlinings, Requirements of fusing, Means of fusing, Fusing equipment, # Methods of fusing #.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B 1 Tyler, The Technology of Clothing Manufacture, Fourth Edition, Black well Publishing, Australia, 2008.

T.B 2 Mary Mathews, Practical Clothing Construction-Part I & II, Cosmic Press, Chennai, 1974.

UNIT I	Chapter II	T.B –1
UNIT II	Chapter II	T.B – 1
UNIT III	Chapter II	T.B – 1
UNIT IV	Chapter II	T.B – 2
UNIT V	Chapter VI	T.B – 1.

Books for References:

1. Betsy Hosegood , “The Complete Book of Sewing”, Dorling Kindersley Limited, London, 2006.
2. Harold Carr and Barbara Latham, “The Technology of Clothing Manufacture”, Oxford BSP Professional Books, 1994.
3. Kilgus. R, “Clothing Technology, From Fiber to Fashion”, Verlag Europe Lehrmittel, 1996.
4. Chuter.A.J,” Introduction to Clothing and Production Management”, Om Books Services, New Delhi, 1995.
5. Tarles E, “Clothing Matters- Questions of Dress and Identity in India”, Hurst, 1996.

SEMESTER III: NON MAJOR ELECTIVE II

PAINTING TECHNIQUES - PRACTICAL

Course Code	:	14UFT3N2P	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

Objectives:

- To enable the students to create a painting design.
- To learn how to use different sources in painting.
- To choose the different color combinations in painting.

DRAW A DESIGN AND APPLY THE SUITABLE COLOURS

1. Fabric Painting	6 hours
2. Chart Painting	6 hours
3. Stencil Painting	6 hours
4. Embossed Painting	6 hours
5. Sand Painting	6 hours

SEMESTER III: SKILL BASED ELECTIVE I

SOFT SKILLS

Course Code	:	14UCN3S1	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

SEMESTER IV: ALLIED IV

PATTERN MAKING AND GARMENT CONSTRUCTION FOR WOMEN'S WEAR - PRACTICAL

Course Code	:	14UFT4A4P	Max Marks	:	100
Hours/Week	:	6	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To create different types of patterns for women's.
- To suggest suitable fabrics, colours and designs for all patterns.
- To learn the drafting procedures for women's wear.

Instructions

- List the Measurements
- Calculate the Required Materials and Cost
- Suggest Suitable Fabrics, Colours and Designs
- Prepare Economical Layout.

Designing, Draft and construct the following Garments

1. Saree Petticoat- Six Panel, Decorative Bottom. **13 hours**
2. Blouse- Front/Back Open, Fashioned Neck, Waist Band at Front, with Sleeve. **14 hours**
3. Middi-circular/gathered/pleated. With Waist Band. **12 hours**
4. Middi-Top-Kimono/ Raglon Sleeve, Gathers/ Belt at Waist. **12 hours**
5. Salwar / Churidhar. **12 hours**
6. Kameez with/ without Slit, with /without Flare, with/without Opening, with/ with
Out Panels, with/ without Sleeve. **13 hours**
7. Nightie / Maxi with / without fullness, with/without opening, with/without yokes,
with/without puff sleeve. **14 hours**

SEMESTER IV: CORE IV

WET PROCESSING

Course Code :	14UFT4C4	Max Marks :	100
Hours/Week :	5	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To gain knowledge on basic processing of textiles.
- To enable students on eco – friendly processing in textiles.
- To develop skills in dyeing of fabrics.

UNIT-I: TEXTILE PREPARATORY PROCESS

15 hours

Need for processing # - Dry and wet processing for fabrics – Preparatory wet processing – Singeing, desizing, scouring, bleaching, mercerizing, degumming and carbonizing. Difference between dyeing and printing. Preparation of printing paste, selection of thickening agents.

UNIT-II: DYES

15 hours

Classification of dyes – Natural Dyes, mordants and its types, mordanting techniques. # Advantages & Disadvantages of natural dyes and synthetic dyes #. Direct dyes, vat, sulphur, reactive, azoic, acid, basic and disperse dyes.

UNIT-III: DYEING AND FINISHING

15 hours

Stages of dyeing #. Methods of Dyeing - Batch, Winch, Jigger, Package, hank dyeing. # Finishing and its classifications – need for finishing #. Calendering, tentering, stiffening, grabbing, decanting, beetling, glazing, schreineriz napping, giggering, shearing.

UNIT-IV: PRINTING

15 hours

Direct printing, # Block printing #, Roller printing, stencil printing, screen printing – preparation of screens. Resist printing – Batik, tie and dye, discharge printing.

15 hours

UNIT-V: MODERN DYEING AND PRINTING

Dyeing – dyeing with supercritical fluids, sonicator dyeing. Printing – transfer printing, inkjet printing, # Photo printing, electrostatic printing #, laser printing.

#.....# **Self-Study Portion**

TEXT BOOKS :

T.B -1 Vankar.P.S, Handbook on natural dyes for industrial applications.

T.B -2 Palsingh.K.V, Elementary Idea of Textile dyeing, printing and finishing, Kalyani Publishers, 2009.

T.B – 3 Kadolph . S.J, Textiles, Tenth Edition, Dorling Kindersley (India) Pvt. Ltd., 2006.

T.B -4 Corbman.B.P, Textile fiber to fabric, 3rd Edition, International students, Mc Grow Hill co, Singapore, 1985.

Unit I	Chapter II	T.B – 2		
Unit II	Chapter I	T.B – 1		
Unit III	Chapter XVI, XIX	T.B – 3		
Unit IV	Chapter IV	T.B – 2		
Unit V	Chapter VII	T.B – 1	Chapter XII	T.B-4.

Books for References:

- 1.Chakaraborty.J.N, “Fundamentals and Practices in Coloration of Textiles”, Woodhead Publishing India Private Limited, 2010.
- 2.Shenai V.A, “Technology of Textile Processing, Chemistry for Dyes and Principles of Dyeing”, A Sevak Publication, Bombay, 1993.
- 3.Manivaskam.N, “Treatment of Textile Processing Efficient”, Sakthi Publications, Coimbatore, 1995.
- 4.Stuart and Robinson, Beginner.P, “Guide to Fabric Dyeing and Printing”, Technical Books, London,1982.

SEMESTER IV: CORE V

WET PROCESSING - PRACTICAL

Course Code	:	14UFT4C5P	Max Marks	:	100
Hours/Week	:	5	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To gain practical knowledge regarding pretreatments of fabric before dyeing.
- To ensure the students to identify the suitability of dyes for different fabrics.
- To study the dyeing mechanism.

I. Preparing the fabrics before dyeing

1. Desizing **7 hours**
2. Scouring **7 hours**
3. Bleaching **7 hours**

II. Dyeing of different fabrics such as Cotton, Polyester, Silk, Wool

4. Reactive Dye **5 hours**
5. Acid Dye **5 hours**
6. Basic Dye **5 hours**
7. Disperse Dye **6 hours**

III. Printing in different methods

8. Block printing **6 hours**
9. Stencil printing **6 Hrous**
10. Screen printing **5 hours**
11. Tie & die printing **5 hours**
12. Batik printing **5 hours**

IV. Stain Removal

13. By Hand **3 hours**
14. By Machine **3 hours**

SEMESTER IV: SKILL BASED ELECTIVE II

SURFACE EMBELLISHMENT – PRACTICAL

Course Code	:	14UFT4S2P	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

Objectives:

- To understand the different types of embroidery stitches.
- To acquire practical knowledge in advance and surface embroidery.

1. **Basic Hand Stitches** **7 hours**

- a) Running – Whipped Running Stitch, Threaded Running Stitch
- b) Hemming
- c) Back Stitch - Whipped Back Stitch, Threaded Back Stitch

2. **Basic Embroidery Stitches** **8 hours**

- a) Chain stitch – Magic Chain Stitch, Twisted Chain Stitch, Heavy Chain Stitch, Whipped Chain Stitch
- b) Fern Stitch
- c) Stem Stitch
- d) Lazy Daisy Stitch - Lazy Daisy with Straight Stitch, Long-Tailed Lazy Daisy Stitch
- e) Blanket (or) Button Hole Stitch
- f) Satin – Slanting Satin Stitch

3. **Advanced Embroidery Stitches** **8 hours**

- a) French Knot,
- b) Bullion Knot
- c) Feather – Double Feather Stitch, Closed Feather Stitch
- d) Herring bone – Threaded Herring Bone Stitch, Fancy Herring Bone Stitch, Tied Herring Bone Stitch, Double Herring Bone Stitch
- e) Cross Stitch

4. **Other surface Embroidery** **7 hours**

- a) Cut work
- b) Mirror work
- c) Applique – Hand Applique, Machine Applique
- d) Patch sequence
- e) Tasseled – Corded Tasseled
- f) Fringes

SEMESTER IV: EXTENSION ACTIVITIES

NCC, NSS, ETC

Course Code	:	14UCN4EA	Max Marks	:	-
Hours/Week	:	-	Internal Marks	:	-
Credit	:	2	External Marks	:	-

SEMESTER IV: EXTRA CREDIT I

VISUAL MERCHANDISING

Course Code	:	14UFT4EC1	Max Marks	:	100*
Hours/Week	:	-	Internal Marks	:	-
Credit	:	4*	External Marks	:	100*

Objectives:

- To know the role of visual merchandising in retail shops.
- To know about store planning, circulation plan and presentation of products.
- To know the quality and process in visual merchandising.
- To encourage the students to become an entrepreneur.

UNIT –I: INTRODUCTION TO MERCHANDISING

Visual Merchandising – Definition and Function, History of visual merchandising, Role of visual merchandising, Understanding retail in India.

UNIT –II: STORE PLANNING AND FIXTURES

Store planning and fixtures – Floor plan, The purpose of planning fixtures, types of fixtures.

UNIT –III: CIRCULATION PLAN

Circulation plan – Rules of circulation, Types of Circulation plans – Free flow, Grid, Race track, Herringbone and spin.

UNIT –IV: MERCHANDISE PRESENTATION

Merchandise presentation – meaning, principles of merchandise presentation, categories in merchandise presentation, Dominance factor in merchandise presentation, elementary of display – Store Exteriors and Interiors.

UNIT –V: WINDOW DISPLAY

Promotional Display Vs Institutional Display, Types of Mannequins, Lighting, Visual Merchandising Tool Kit, Quality and process in Visual Merchandising.

TEXT BOOK:

T.B-1 Bhallo.S, Anuraya.S, Visual Merchandising, Tata MC Graw Hill Education Private Limited, New Delhi, 2010.

Unit I	Chapter -II	T.B-1
Unit II	Chapter -VII	T.B-1
Unit III	Chapter -VIII	T.B-1
Unit IV	Chapter -X, IV	T.B-1
Unit V	Chapter -XI, XII	T.B-1.

Books for References:

- 1.Rajesh, “ Managing Productivity in Apparel Industry”, CBS Publishers & Distributors, 2008.
- 2.Banotia.V, “Marketing Management”, Mangal Deep Publications, 2001.
- 3.Jones.R.M, "The Apparel Industry”, Wiley, 2006.
- 4.Joamow.J.A, Judelic,B, Guerreiro,M, “Inside the Fashion Business”, John Wiley and Sons, Ny Toranto, Bribane,1981.
- 5.Frings G.S, “Fashion From Concept to Consumer”, Prentice, Hall Inc., New Jersey, 1982.

SEMESTER IV: EXTRA CREDIT II

INTERNSHIP

Course Code	:	14UFT4EC2	Max Marks	:	100*
Hours/Week	:	-	Internal Marks	:	-
Credit	:	4*	External Marks	:	100*

Objectives:

- To get exposure in textile industries.
- To observe the production processes for various styles.
- To gain knowledge in management opportunities of apparel industries.

Following instructions are given below:

- Visit to textile processing/ weaving/ spinning/ knitting/ garment production unit.
- Duration – 15 days.
- Submission of analyzed report.

SEMESTER V: CORE VI

PATTERN MAKING AND GARMENT CONSTRUCTION FOR MEN'S WEAR - PRACTICAL

Course Code :	14UFT5C6P	Max Marks :	100
Hours/Week :	5	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To create different types of patterns for men's.
- To suggest suitable fabrics, colours and designs for all patterns.
- To learn the drafting procedures for men's wear.

Instructions:

- List the Measurements.
- Calculate the Required Materials and Cost.
- Suggest Suitable Fabrics, Colours and Designs.
- Prepare Economical Layout.

Designing, Draft and construct the following Garments

1. S.B Vest-with/without Collar, Button attached, Sleeveless. **10 hours**
2. T-Shirt-Front Half Open, Zip Attached, With Collar. **10 hours**
3. Slack Shirt-with Collar, Half Sleeve, Patch Pocket. **11 hours**
4. Kalidhar Kurta -Kali Piece, Side Pocket, Round Neck, Half Open. **11 hours**
5. Nehru Kurta-Half Open, Stand Collar, with/without Pocket, Full Sleeve. **11 hours**
6. Pyjama/Bermudas-Elastic/Tape attached Waist, with/without fly. **10 hours**
7. One piece pant – fly attached, separate belt attached, front and back dart. **12 hours**

SEMESTER V: CORE VII

TRADITIONAL INDIAN COSTUMES AND EMBROIDERY

Course Code :	14UFT5C7	Max Marks :	100
Hours/Week :	4	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To learn the traditional costumes of India.
- To know the woven textile and dyed textile.
- To learn the traditional embroidery of India.

UNIT-I: INTRODUCTION TO INDIAN COSTUMES **12 hours**

Indian costume – Introduction, Indian Costumes from the earliest times to the beginning of the historical period – Indus valley civilization costumes, Indo Aryans and Vedic Ages, Mauryan and the Sunga period, # Satavahana period, Kushan period # Mughal period.

12 hours

UNIT- II: TRADITIONAL COSTUMES OF INDIA

Introduction to traditional Indian dress. Costumes of Punjab, Himachal Pradesh, Gujarat, Rajasthan, # Uttar Pradesh, Madhya Pradesh #, Jammu and Kashmir, Kutch and Savarashtra.

UNIT-III: EMBROIDERIES OF INDIA **12 hours**

Kashmir Embroidery, Kanthas of Bengal, Chamba rummal of Himachal Pradesh, # Chickenkari of Uttar Pradesh #, Pulkhari of Punjab, Kasuthi Embroidery, Kutch Embroidery.

UNIT-IV: TRADITIONAL WOVEN TEXTILES **12 hours**

Introduction to woven textiles of India – Brocades of Banaras, Patola, Baluchari, Pithambar, Tamilnadu saree. # Types of woven Kashmir shawls – Do- shala, Do- rookha, Kasubha shawl, Ruffle #.

UNIT-V: TRADITIONAL PRINTED AND DYED TEXTILES **12 hours**

Printed textiles – Kalamkari, Block printing, Roghan printing and other printed and painted textiles (Mata-mi-pachedi, Pabuji-ka-pad) Dyed textiles – Ikat, Patola, # Bandhani, Laharia, Mashru #.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Dr.Parul Bhatnagar, Traditional Indian costumes and Textiles, First Edition, Abhishak Publications, Chandigarh, India, 2004.

T.B-2 Manmeet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2007.

T.B-3 Manmeet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2009.

T.B-4 History of Costumes and Textiles – Study Material prepared by the Department.

Unit I	Chapter I	T.B-1
Unit II	Chapter XIV	T.B-2
Unit III	Chapter XVI	T.B-2
Unit IV	Chapter XIX	T.B-3
Unit V	Chapter X	T.B-4.

Books for References:

- 1.Govind Sadashiv Ghurye , “Indian Costume”, Popular Prakashan Publication, 1966.
- 2.Ritu Kumar, “Costumes and Textiles of Royal India Antique Collectors”, Club, 2006.
- 3.Arabinda Biswas, “Indian Costumes”, Ministry of Information and Broadcasting Publication Division, 1985.
- 4.Zamila Brij Bhushan, “Indian Embroidery”, Ministry of Information and Broadcasting Publications Division, Government of India, 1990.

SEMESTER V: CORE VIII

GARMENT QUALITY AND COST CONTROL

Course Code	:	14UFT5C8	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To learn the terms of quality in textile industries.
- To know the uses of quality control and its specification of apparel industries.
- To gain knowledge in merchandising and quality standards.
- To know the basic process Grids for production control.

UNIT-I: QUALITY CONTROL **12 hours**

Definition and # Scope of Quality Control # – Establishing Merchandising Standards - Quality Control of Raw Material.

UNIT-II: QUALITY SPECIFICATION **12 hours**

Establishing Processing Quality Specification-Training Quality Control Personnel-Quality Standard Control-Quality Control-Inspection, Procedures for Processing – Quality Control of Finished Garments- # Quality Control for Packaging, Warehousing and Shipping #.

UNIT-III: FUNCTION OF PRODUCTION CONTROL **12 hours**

Function of Production Control - Production, Analysis - Quality Specification - Quantitative Production-Scope of Apparel Manufacturing Activity-Coordinating.

UNIT-IV: TYPE OF CONTROL FORMS **12 hours**

Type of Control Forms – Basic Production Systems - Principles for Choosing a Production System - Evaluating Production Systems - Basic Flow Process Grids for Production Control.

UNIT-V: COST CONTROL **12 hours**

Functions of Cost Control: Types of Costs and Expenses - # Apparel Manufacturing Cost Categories # -Sales Cost Control-Purchasing Cost Control-Production Cost Control-Administration Cost Control-Cost Ratio Policies-The Manufacturing Budget-Cash Flow Control-Standard Cost Sheet – Break Even Charts.

#.....# **Self-Study Portion**

TEXT BOOK:

T.B-1 Garment Quality and Cost Control –Study Material prepared by the Department.

Unit I	Chapter XI	T.B-1
Unit II	Chapter XI	T.B-1
Unit III	Chapter X	T.B-1
Unit IV	Chapter X	T.B-1
Unit V	Chapter XVII	T.B-1.

Books for References:

1. Gerry Cooklin, "Garment Technology for Fashion Designers" Wiley, 1997.
2. Mehta.P.V, "Quality Control in Apparel Industry", J.S.N. International, 1985.
3. Solinger, Jacob, "Apparel Manufacturing Analysis", New York, Textiles Book, 1961.
4. Solinger, Jacob, "Apparel Manufacturing Handbook Analysis - Principles and Practice", Columbia Media Corporation, 1998.

SEMESTER V: CORE IX

TEXTILE TESTING

Course Code :	14UFT5C9	Max Marks :	100
Hours/Week :	4	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To understand the methods and techniques used to analyze textile fibers, yarns and fabrics.
- To acquire knowledge in various properties of textile and related to endure fabric performance and products.

UNIT-I: INTRODUCTION TO TEXTILE TESTING 12 hours

Importance of testing, general rules for testing and testing conditions. # Different types of Physical test and their needs #.

UNIT-II: FIBER TESTING 12 hours

Methods of fiber sampling for testing, # Cotton staple length and grade #, Cotton fiber length analysis, Cotton fiber fineness and maturity, non – lint content, moisture content.

UNIT-III: YARN TESTING 12 hours

Yarn numbering #, Yarn Strength, Analysis of Strength, Yarn grade and appearance, Yarn twist testing, Crimp and hairiness.

UNIT-IV: FABRIC ANALYSIS 12 hours

Fabric width, Fabric length, Fabric weight #, Fabric thickness, Serviceability test – Breaking Strength, Bursting Strength and Abrasion Resistance, Crease Recovery, Stiffness and Drapability Test, Pilling Test.

UNIT-V: COLOUR FASTNESS TEST 12 hours

Colour Fastness to Sunlight, Wet and Dry Crocking, Wet and Dry Pressing, Perspiration – Acidic, Alkaline, Laundering and Dry Cleaning, Fastness Grading using Gray Scale, # Computer Colour Matching, Whiteness Index and Colour Matching Cabinet #.

#.....# **Self-Study Portion**

TEXT BOOKS :

T.B-1 Booth J.E., Principles of Textile Testing, CBS Publishers and Distributors, New Delhi, 1996.

T.B -2 Saville B.P., Physical testing and textile, wood head publishing Ltd, England, 1999.

T.B-3 Groover, E and B Hamby.D.S., Textile Testing and Quality Control, John Wiley and Sons inc, New York, 1960.

Unit I	Chapter I	T.B-1
Unit II	Chapter XIII	T.B-3
Unit III	Chapter IV	T.B-2
Unit IV	Chapter VII	T.B-1
Unit V	Chapter IX	T.B-2.

Books for References:

- 1.Hand Book, B.S., Methods of Test for Textiles British Standards Institution, British Standards House, London, 1963.
- 2.J.Raul, “Textile Testing”, APH Publishing, 2005.
- 3.Jinlian Hu, “Fabric Testing”, Woodhead Publishing, 2008.
- 4.Sabit Adanur Wellington Sears, “Handbook of Industrial Textiles” CRC Press Publication, 1995.

SEMESTER V: CORE X

TEXTILE TESTING - PRACTICAL

Course Code	:	14UFT5C10P	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To study about the physical testing of textiles.
- To know the testing methods for colored fabrics.

I. IDENTIFICATION OF TEXTILE FIBERS

Fibers- Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute.

1. Microscopic Test. **4 hours**
2. Flame Test. **4 hours**
3. Chemical Test. **4 hours**

II. YARN TEST

4. To determine the yarn count using Quadrant Balance. **4 hours**
5. To determine the yarn count using Wrap Reel Method **4 hours**
6. To determine the yarn count using Beesley's balance method. **4 hours**
7. To determine the yarn twist using Single Yarn Twist Tester. **4 hours**
8. To determine the Course Length and Loop Length for Knitted Fabric. **4 hours**

III. FABRIC TEST

9. To determine the thickness of a fabric using Thickness tester. **4 hours**
10. To determine the stiffness of a fabric using Stiffness tester. **4 hours**
11. To determine the drape of a fabric using Drape meter. **4 hours**
12. To determine the crease of a fabric using Crease recovery tester. **4 hours**
13. To determine the Cover Factor for a fabric **4 hours**

IV. COLOR FASTNESS TEST

14. To determine the rubbing fastness of a dyed fabric using Crock Meter. **4 hours**
15. To determine the colorfastness to sunlight using Grey Scale. **4 hours**

SEMESTER V: CORE XI

COMPUTER AIDED DESIGNING - PRACTICAL

Course Code	:	14UFT5C11P	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To gain knowledge in creating motifs using Computer Aided Designing.
- To illustrate different types of garments using Computer Aided Designing.
- To create fashionable logos and labels using Computer Aided Designing.

CREATE THE FOLLOWING DESIGNS

1. Motifs

- | | |
|--------------------------------------|----------------|
| a. Embroidery Designs for Kerchiefs. | 1 hours |
| b. Necklines. | 1 hours |
| c. Chest Prints. | 1 hours |
| d. T-Shirt. | 1 hours |

2. Children's Garments

- | | |
|-------------|----------------|
| a. Jabla | 3 hours |
| b. Frocks | 3 hours |
| c. Sun Suit | 3 hours |

3. Women's Garments

- | | |
|--------------------|----------------|
| a. One Piece Dress | 3 hours |
| b. Middi & Tops | 4 hours |
| c. Salwar Kameez | 4 hours |
| d. House Coat | 4 hours |
| e. Nighty | 4 hours |

4. Men's Garments

- | | |
|------------|----------------|
| a. SB Vest | 4 hours |
| b. T-Shirt | 4 hours |
| c. Shirt | 4 hours |
| d. Kurta | 4 hours |
| e. Pant | 4 hours |
5. Create Logos for Branded Companies. **4 hours**
6. Create Label for Garments Companies. **4 hours**

SEMESTER V: MAJOR BASED ELECTIVE IV

FASHION AND CLOTHING PSYCHOLOGY

Course Code	:	14UFT5M4	Max Marks	:	100
Hours/Week	:	3	Internal Marks	:	40
Credit	:	3	External Marks	:	60

Objectives:

- To gain knowledge about fashion terms, fashion psychology, fashion designer and fashion centers.
- To learn trickle down, trickle up and textile across theory.
- To understand the fashion leaders, fashion innovators, fashion motivation, fashion victim and fashion followers.

UNIT-I: FASHION TERMS

9 hours

Terms related to the Fashion Industry - Fashion, Style, Fad, Classic, Collection, Chic, Mannequin, Fashion Show, Trend, Haute Couture, Fashion Cycles.

UNIT-II: FASHION PSYCHOLOGY

9 hours

Factors influencing Fashion Changes-Psychological Needs of Fashion, Social Psychology of Fashion, Technological, Economical, Political, Legal and Seasonal Influence. Role of Costume as a Status Symbol, Personality and Dress, # Repetition of Fashion #.

UNIT-III: FASHION CHANGES AND CONSUMER ACCEPTANCE

9 hours

Fashion Leaders, Fashion Innovators, Fashion Motivation, Fashion Victim, Fashion followers. Adoption of V – Trickle Down, Trickle up and Trickle Across Theory. # Fashion Forecasting # - Market Research, Evaluating the Collection, Fashion Services, Colours Services, Video Services, Newsletter Services, Websites, Directories and .

UNIT-IV: FASHION DESIGNERS

9 hours

Indian Designers-Rohit Khosla, Gitanjal Ksshyap, Hemant Trivedi, J.J. Valaya, Ritu Kumar, Rohit Bal, Tarun Tahiliani, Sangeethe Chopra, Bhamini Subramaniam, Anju Modi, # Ravi Bajaj, Ritu Beri #.

UNIT-V: WORLD WIDE FASHION CENTERS

9 hours

World fashion Centers- France, Italy, England, Germany, Canada, New York.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Elaine Stone, The Dynamics of Fashion, Fairchild Publications, New York, 2001.

T.B-2 Jenny Davis, A Complete Guide to Fashion Designing, 1st Edition, Abhishek Publication, Chandigarh, 2009.

T.B-3 Frings, Fashion from Concept to Consumer, 7th Edition, Dorling Kindersley Publishing Inc, India, 2008.

T.B-4 Man Meet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2009.

T.B-5 Man Meet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2007.

T.B-6 Pundir, Fashion Technology Today and Tomorrow, A Mittal Publication, New Delhi, 2007.

T.B-7 M.R.Soloman & N.J. Rabolt, Consumer Behaviour in Fashion, Dorling Kindersley Publishing Inc, India, 2006.

Unit I	Chapter I	T.B-1	Chapter I,III&IV	T.B-5	Chapter IX	T.B-6
Unit II	Chapter II	T.B-1	Chapter III	T.B-3		
Unit III	Chapter III	T.B-1	Chapter III &IV	T.B-3	Chapter XI	T.B-6 Chapter I T.B-7
Unit IV	Chapter IV	T.B-1				
Unit V	Chapter VIII	T.B-3.				

Books for References:

1.Drake et-al, "Retail Fashion, Promotion and Advertising" – Macmillan Publishing Company, New York, 1992.

2.Gini Stephens Frings, "Fashion From Concept to Consumer" –6th Edition, Prentice Hall, 1999.

3.Bennett, "Inside the Fashion Business" –Coleman and Co Publication, Mumbai, 1998.

4.Harriet.T, Mc Jimsey, "Art and Fashion in Clothing Selection", –The Iowa Ames Publication, State University Press, 1973.

SEMESTER V: SKILL BASED ELECTIVE III

COSMETOLOGY

Course Code :	14UFT5S3	Max Marks :	100
Hours/Week :	2	Internal Marks :	40
Credit :	2	External Marks :	60

Objectives:

- To know the skin types of our skin.
- To know the hair maintenance.
- To know the basic make up.
- To know the maintenance of hands and legs.
- To know the value of sleep and health drinks.

UNIT-I: SKIN CARE

6 hours

Introduction to Skin care, # Structure of the Skin # - basic Skin types. Face Mask – Mask guidelines, Carrot mask, Avocado mask, Simple oatmeal mask, Tomato mask, Wheat germ mask, Cooling mask, Special aloe Vera mask, Egg mask.

UNIT-II: HAIR CARE

6 hours

Typology of hair, Hair Care Programme – Scalp massage, Rubber Scalp massage, Finger massage, Oiling, Application Recipe, # Common Hair problems and Remedies # , Hair Nutrition.

UNIT-III: MANICURE AND PEDICURE

6 hours

Manicure Techniques, Daily routine for naturally beautiful nails, Nourishing hand treatment, Hand Lotion and creams. # Pedicure Procedure #, Foot bath – Role of sensible Footwear – Soothing Foot massage, Foot tips.

UNIT-IV: BEAUTY ACCESSORIES

6 hours

Make up Accessories: Foundations, # Fundamentals of perfect makeup #, Eye make up, Application of Eye Liner, Lengthening Lashes, Lipstick and Shaping Lips.

UNIT-V: SLEEP

6 hours

Beauty Sleep – Catch your Sleep, # Strain and Drink # , Vitality Drinks – Mixed Fruit Juice, Tangy Tomato Juice, Ice Melon, Banana Milk, Health Booster Juice, Pineapple Drink, Combination Drink, Coconut Juice, Citrus Melon Juice, Fruit Drink.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Dr.Neena Khanna, Body and Beauty Care, Pustak Mahal, Delhi, 2006.

T.B-2 Aroona Reejhsinghani, Be your own beautician, B.Jain Publishers (P) Ltd., India, 2007.

T.B-3 Arlene Mathew, The Complete Beauty book, Vasan Publications, 2012.

Unit I	Chapter IV	T.B-3
Unit II	Chapter VI	T.B-3
Unit III	Chapter IX & X	T.B-3
Unit IV	Chapter VI	T.B-3
Unit V	Chapter XVI & XVII	T.B-3.

Books for References:

- 1.Frost.P and Horwitz.S.N, “Principles of Cosmetics for the Dermatologist”, Mosby CV; St.Louis; 1982.
- 2.Tremblay.S, “The Professional Skin Care Manual”, Prentice Hall, New Jersey; 1978.
- 3.Vwien.B, “The Complete Beauty Workshop”, Cavendish Books Limited, London,1984.
- 4.Julia.M Busch, “ Facelift Naturally”, Orient Paperbacks, 2006.

SEMESTER V: EXTRA CREDIT III

EXPORT TRADE

Course Code	:	14UFT5EC3	Max Marks	:	100*
Hours/Week	:	-	Internal Marks	:	-
Credit	:	4*	External Marks	:	100*

Objective:

- To know the importance of export and import procedures.
- To gain the knowledge in export documents and trade.

UNIT-I: APPAREL AND TEXTILE TRADE

World trade in textile and Apparel - India's Position in world trade.

UNIT-II: GLOBAL COMPETITIVE SCENARIO

Competitiveness, competitive position of India – Spinning Sector, Weaving Sector, Processing Sector, Garment Sector, Competitive Position of India Exports – US Market, European Union Market.

UNIT-III: STUDY OF PERCEPTIONS

Perception - Difference between buying house and apparel exporters. SWOT Analysis – Strength, Weakness, Opportunities, Threats.

UNIT-IV: EXPORT DOCUMENTS

Export credit – Short term, Anticipatory Letter of Credit (L/C) – Packing credit – negotiation of bills, short, medium and long term export credits. Role of terms and payments in International Trading.

UNIT-V: STRATEGIES IN WORLD TRADE ORGANISATION

Strategies for textile industry, strategies for apparel industry.

TEXT BOOKS:

T.B-1 Pradeep Joshi, Apparel and Textile Exports, CBS Publishers and Distributors, New Delhi, 2006.

T.B-2 Jhonson, T.E., Bode.D.L, Export Import Procedures, AMACOM Div American Mgmt Publishers, 2010.

Unit I	Chapter I	T.B-1
Unit II	Chapter III	T.B-1
Unit III	Chapter IV	T.B-1
Unit IV	Chapter IV	T.B-2
Unit V	Chapter VII	T.B-1.

Books for References:

- 1.Seyoum.B, “ Export – Import Theory, Practices and Procedures”, Taylor and Francis Publishing, 2009.
- 3.Richard Hill, Ralph and James, “Industrial Marketing”, AITBS Publishing, 1998.
- 4.Dickerson, “Textiles and Apparel in Global Economy”, 3rd Edition, Prentice Hall, 1998.
- 5.John Donnellan, “ Merchandise Buying and Management”, Fairchild Publishing, A&C Black, 2013.

SEMESTER VI: CORE XII

APPAREL MERCHANDISING AND MARKETING

Course Code :	14UFT6C12	Max Marks :	100
Hours/Week :	5	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To gain knowledge about marketing, merchandising, presentation and export marketing.
- To learn about environmental trends.
- To understand the national brands and private labels.

UNIT-I: MARKETING

15 hours

Marketing Concepts -Definition, Apparel and Fashion Marketing - Planning, Apparel Market, Environment - Micro and Macro Marketing, Environment trends. # Apparel Market and Segments #.

UNIT-II: MERCHANDISING

15 hours

Merchandising - Definition, Merchandising as Business Function - Role of Merchandiser Evolution of Merchandising in Apparel Industry , Merchandising Organization, Buying Preparation, # National Brands vs Private Labels #.

UNIT-III: VISUAL MERCHANDISING

15 hours

Definition, Function, Significance of Display, Types of Displays- Window Displays, Interior Display, Exterior Display, # Elements of Display #, lighting. Fashion show-Definition, Planning, Budgeting, location, Timings, Selection of Models, Collection, Set Design, Music, Preparing the Commentary, Rehearsal.

UNIT-IV: MERCHANDISING PRESENTATION

15 hours

Merchandising Presentation - Principles of Merchandising Presentation, Placement of Merchandise, Categories of Merchandise Presentation, Dominance Factors in Merchandising Presentation, # Cross Merchandising #.

UNIT-V: EXPORT MARKETING AND DOCUMENTATION

15 hours

Export Marketing of Apparel, Prospects for Indian in Overseas Market, Globalization.

#.....# **Self-Study Portion**

TEXT BOOKS :

T.B-1 Sodha and Chatley , Fashion Marketing and Merchandising, Kalyani Publication, New Delhi, 2008.

T.B-2 Frings, Fashion from Concept to Consumer, Seventh Edition, Dorling Kindersley Publishing Inc, India, 2008.

T.B-3 Davis Burns and Bryant, The Business of Fashion, Fair Child Publications, New York, 2002.

T.B-4 Anurag.S. and Bhalla, Visual Merchandising, Tata McGraw Hill Education Private Limited, New Delhi, 2010.

T.B-5 Goworek, Careers in Fashion and Textiles, Blackwell Publishing, NewDelhi, 2006.

T.B-6 Elaine Stone, The Dynamics of Fashion (2001), Fairchild publications, New York.

T.B-7 Michanel R. Soloman& Nancy J. Rabolt, Consumer Behaviour in Fashion.

T.B-8 Kotler et al, Marketing Management, 13th edition, Dorling Kindersley Publishing Inc, India, 2009.

Unit I Chapter I, III, IV **T.B-1** Chapter II **T.B-6** Chapter I **T.B-8** .

Unit II Chapter XII **T.B-1** Chapter XIV **T.B-2** Chapter X **T.B-5**, Chapter I & IV **T.B-6**

Unit III Chapter X **T.B-1** Chapter XV **T.B-2** Chapter II, IV, VI, VII, XI, XII **T.B-4**

Unit IV Chapter X **T.B-4**

Unit V Chapter I **T.B-2**.

Books for References:

1.George.E.Belch, Michael.B.Belch, “Introduction to Advertising and Promotion”, – An Integrated Marketing Communication Perspective, Richard, Irwin, Inc., 1995.

2.Varma and Aggarwal, “Advertising Management”, Kingsbood – Educational Publishers, Delhi, 1997.

3.Chuter.A.J, “ Introduction to Clothing and Production Management”, Om Books Services, New Delhi, 1995.

4.Darlie O’Koshy, “ Garment Exports -Winning Strategies”, Prentice Hall of India, 1997.

5.Darlie O’Koshy, “ Effective Export Marketing of Apparels”, Global Business Press, 1995.

SEMESTER VI: CORE XIII

ECO DYEING

Course Code	:	14UFT6C13	Max Marks	:	100
Hours/Week	:	5	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To understand the waste water problems due to textile industries.
- To know the need for eco-friendliness in textile processing.
- To utilize the available natural resources for dyeing.
- To study the effluent treatment plants and its recycling process.

UNIT-I: INTRODUCTION TO ECO DYEING PROCESS 15 hours

Waste Water problems in textile industry. Classifications of pollutants in textile processing. Effluents – treatment and its recycling process. # Need for eco-friendliness in dyeing process #.

UNIT-II: NATURAL DYES 15 hours

Natural Dyes – Definition, History, Promotion, Sources, Classification based on colors. # Advantages of natural dyes #.

UNIT-III: BASICS OF NATURAL DYEING 15 hours

Preparation of fabric before dyeing #, Principles of natural dyeing – Nature of material to be dyed, measurements of dyestuffs and mordants, Temperature, Agitation, Natural dyes - unpredictable, wet fibers, Rinsing.

UNIT-IV: EXTRACTION OF NATURAL DYES 15 hours

Methods of dye extraction – Methodology, Innovative methods for extraction of dye, Innovative methods for dyeing. # Mordants for natural dyeing #, Classification of mordanting technique – Pre – mordanting, Mordants as additives, Saddening and Blooming.

UNIT-V: ECO- FRIENDLY PROCESSING 15 hours

Problems faced by textile wet processing #. Enzymes – meaning and its types used in textile. Enzymatic desizing, enzymatic scouring, enzymatic bleaching, bio polishing and enzyme based softeners for softening, degumming.

.....# **Self-Study Portion**

TEXT BOOKS :

T.B-1 Singh.K.V.P, Elementary Idea of Textile Dyeing, Printing and Finishing, Kalyani Publishers, 2009.

T.B -2 Chakaraborty.J.N, Fundamentals and Practices in coloration of textiles, Woodhead Publishing India Pvt Ltd, 2010.

T.B-3 Vankar.P.S, Handbook on natural dyes for industrial applications, National Institute of Industrial Research.

T.B-4 Arora.A, Text Book of Dyes, Sonali Publications, New Delhi, 2009.

Journal:

J-1 Verma.N and Nishkam.A, “Enzymes in wet processing”, The Indian Textile Journal, February, vol: 113, No:5, Pp:37, 2003.

Unit I	Chapter III	T.B-1	Chapter XXXII	T.B-2
Unit II	Chapter I	T.B-3		
Unit III	Chapter II	T.B-3		
Unit IV	Chapter V	T.B-3	Chapter X	T.B-4
Unit V	Chapter XVI	T.B-4	Chapter VII	T.B-3.

Books for References:

- 1.Smith. J.L, “ Textile Processing”, Abhishek Publications, Chandigarh, 2003.
- 2.Shenal.V, “Technology of Textiles Processing”, Sevale Publications, Bombay, 1981.
- 3.Shenal.V.A, “Technology of Textile Processing”, Chemistry for Dyes and Principles of Dyeing, Sevak Publication, Bombay, 1993.
- 4.Galrajani.M.L.Deepti Gupta, “Natural Dyes and their Application to Textiles”, Indian Institute of Technology, New Delhi, 1992.

SEMESTER VI: CORE XIV

FABRIC STRUCTURE AND DESIGN

Course Code :	14UFT6C14	Max Marks :	100
Hours/Week :	5	Internal Marks :	40
Credit :	4	External Marks :	60

Objectives:

- To know to identify the different types of fabrics.
- To enable students to prepare point paper designs for basic and figured weaves.

UNIT-I: WOVEN DESIGN FUNDAMENTALS 15 hours

Introduction, Classification of Woven structures, Methods of weave Representation, Weave repeat, Basic elements of a woven design, Types of draft plans. Weaves – Plain, # Rib #, Twill, Satin and Sateen. End uses of the above weaves.

UNIT- II: HEAVY FABRICS 15 hours

Honey Comb # - ordinary, brighten. Weaves – Huck a Back, Crepe and Mock Leno. End uses of the above weaves.

UNIT-III: FIGURED FABRICS 15 hours

Backed Fabrics - Warp and Weft, # Difference between warp and weft backed fabrics #. Extra warp and extra weft figuring – single and two colours, # Difference between extra warp and extra weft figuring #. End uses of the above weaves.

UNIT-IV: PILE FABRICS 15 hours

Pile Fabric- Types of velveteens, Weft plush, Terry pile – 3 pile, 4 pile, 5 pile, 6 pile, # length density and fastness of no pile #. End uses of the above weaves.

UNIT-V: DOUBLE CLOTH 15 hours

Double Cloth- # Classification, warp #, Weft and centre stitched double cloth. Self Stitched-back to Face. End uses of the above weaves.

.....# **Self-Study Portion**

TEXT BOOK:

T.B-1 N.Gokarneshan, Fabric Structure and Design, , New Age International (P) Ltd, Publishers, New Delhi, 2006.

Unit I	Chapter II, III & IV	T.B-1
Unit II	Chapter V, VI, VII & X	T.B-1
Unit III	Chapter XI & XIII	T.B-1
Unit IV	Chapter XII	T.B-1
Unit V	Chapter XI	T.B-1.

Books for References:

- 1.M.G.Mahadevan, “Textiles Spinning, Weaving and Designing”, First Edition, Abhishek Publications Chandigarh, 2005.
- 2.W.S.Murphy, “Textile Weaving and Design”, First Indian Edition, Abhishek Publications, Chandigarh, 2007.
- 3.Watson’s , “Textile Design and Colour”, Grosichki.Z Newness, Butter Worths, London, 1980.
- 4.Watson’s , “Advanced Textile Design”, Grosichkli.Z Newness, Butter Worths, London, 1989.
- 5.Corbmann.B.P, “Textiles – Fiber to Fabric”, International Students Edition, MC.Graw Hill Book Co, Singapore, 1985.

SEMESTER VI: CORE XV

FABRIC STRUCTURE AND DESIGN - PRACTICAL

Course Code	:	14UFT6C15P	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To know to identify the different types of fabrics.
- To enable students to prepare point paper designs for basic and figured weaves.

IDENTIFICATIONS OF THE FOLLOWING WEAVE DESIGN AND DRAFT A PEG PLAN FOR THE SAME:

1. Plain Weave
 - a) Firmly Woven **3 hours**
 - b) Loosely Woven **3 hours**
2. Twill Weave **6 hours**
3. Satin **6 hours**
4. Sateen **6 hours**
5. Honey Comb Weave **6 hours**
6. Huck a Back Weave **3 hours**
7. Mock-leno Weave **3 hours**
8. Extra Warp Figuring **5 hours**
9. Extra Weft Figuring **5 hours**
10. Double Cloth-any one type **5 hours**
11. Terry Pile Structure **5 hours**
12. Cut Pile Structure **4 hours**

SEMESTER VI: CORE XVI

FASHION PORTFOLIO PRESENTATION – PRACTICAL

Course Code	:	14UFT6C16P	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Mark	:	60

Objectives:

- To prepare the theme based garments.
- To motivate and create recent trends in fashion garments.

1. Trend forecasts	4 hours
2. Theme write up	4 hours
3. Mood board	4 hours
4. Theme board	4 hours
5. Colour board	4 hours
6. Customer Profile	4 hours
7. Fabric sourcing – swatches	5 hours
8. Design development	5 hours
9. Illustration with backdrops	5 hours
10. Specification Sheet	5 hours
11. Pattern making	5 hours
12. Garment construction	6 hours
13. Final presentation	5 hours

SEMESTER VI: CORE XVII

FABRIC CARE

Course Code	:	14UFT6C17	Max Marks	:	100
Hours/Week	:	4	Internal Marks	:	40
Credit	:	4	External Marks	:	60

Objectives:

- To impart the knowledge about care of the fabric.
- To acquire knowledge and understand various fabric effects and care labels.

UNIT-I: WATER

12 hours

Water-Hard and Soft Water, Determining and Methods of Softening Water, # Laundry Soaps-Forms. Preparation of Soaps and Detergents #.

12 hours

UNIT-II: PRINCIPLES OF WASHING & FINISHING

Washing - Suction Washing, Washing by Kneading and Squaring, Washing by Machine#. Stiffening Agents- Starch, Preparation of Starch, Laundry Blue and Optical whiteners.

UNIT-III: LAUNDERING OF FABRICS

12 hours

Cotton #, Linen, Woolen, Silk, Synthetics, Lace, carpets and rugs, upholstery, Draperies and Curtains.

UNIT-IV: REMOVAL OF STAINS

12 hours

Stain Removal, # Home Removal of Stains – Points to Remember #, Classification of Stains, Principles of Stain Removal, Classification of Stain Removers, Application of Stain Removers, Some Common Stains and their Removal.

UNIT-V: CARE LABEL

12 hours

Various Systems, # Instruction for Washing #, Bleaching, Drying, Ironing & Dry Cleaning.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Gupta et al, Text Book of Clothing and Textiles and Laundry , 5th Edition, Kalyani Publishers, New Delhi, 2006.

T.B-2 Noemia. D Souza, Fabric care, New age International (P) Limited, Publishers, Chennai.

Unit I	Chapter III	T.B-1	Chapter II & III	T.B-2
Unit II	Chapter II	T.B-1	Chapter VI & V	T.B-2
Unit III	Chapter III	T.B-1	Chapter XI	T.B-2
Unit IV	Chapter IV	T.B-1	Chapter VIII	T.B-2.
Unit V	Chapter IX	T.B-2.		

Books for References:

- 1.Mahadevan.M.G. “Textiles Spinning, Weaving and Designing”, First Edition, Abhishek Publications Chandigarh, 2005.
- 2.Wingate.B, “Textiles Fabrics and their Selection”, Allied Publishers Limited, Chennai.
- 3.Susheela Dantyagi , “Fundamentals of Textiles and their Care”, Orient Longmann Limited, 1980.
- 4.Durga Duelkei, “Household – Textiles and Laundry Work”, Atma Ram and Sons, Delhi, 1988.

SEMESTER VI: SKILL BASED ELECTIVE IV

ACCESSORIES MAKING - PRACTICAL

Course Code	:	14UFT6S4P	Max Marks	:	100
Hours/Week	:	2	Internal Marks	:	40
Credit	:	2	External Marks	:	60

Objectives:

- To gain the knowledge in fashion accessories.
- To prepare the ring, stud, chain, bangles, hand bags, foot wears and hair band.

Design and make the following accessories by using Glass method, Paper, Fabrics, Beads, Leather, Embroidery, Thread Work, Buttons

1. Ring Varieties. **4 hours**
2. Stud Varieties. **4 hours**
3. Chain Varieties. **5 hours**
4. Bangles Varieties. **4 hours**
5. Hand Bags. **4 hours**
6. Foot Wears. **5 hours**
7. Hair Band. **4 hours**

SEMESTER VI: GENDER STUDIES

GENDER STUDEIS

Course Code	:	14UCN6GS	Max Marks	:	100
Hours/Week	:	1	Internal Marks	:	40
Credit	:	1	External Mark	:	60

UNIT-I:

3 hours

Concepts of Gender: Sex-Gender - Biological Determinism – Patriarchy – Feminism – Gender Discrimination - Gender Division of Labour - Gender Stereotyping - Gender Sensitivity – Gender Equity – Equality - Gender Mainstreaming - Empowerment.

UNIT-II:

3 hours

Women's Studies Vs Gender Studies: UGC's Guidelines – VII to XI Plans – Gender Studies: Beijing Conference and CEDAW – Exclusiveness and Inclusiveness.

UNIT-III:

3 hours

Areas of Gender Discrimination: Family – Sex Ratio – Literacy – Health Governance – Religion Work Vs Employment – Market – Media – Politics – Law – Domestic Violence – Sexual Harassment – State Policies and Planning.

UNIT-IV:

3 hours

Women Development and Gender Empowerment : Initiatives – International Women's Decade – International Women's Year – National Policy for Empowerment of Women – Women Empowerment Year 2001 – Mainstreaming Global Policies.

UNIT-V:

3 hours

Women's Movements and Safeguarding Mechanism: In India National / State Commission for Women (NCW) – All Women Police Station – Family Court – Domestic Violence Act – Prevention of Sexual Harassment at Work Place Supreme Court Guidelines – Maternity Benefit Act – PNDT Act – Hindu Succession Act 2005 – Eve Teasing Prevention Act – Self Help Groups – 73rd and 74th Amendment for PRIS.

TEXT BOOK:

T.B-1 Gender Studies, (08U612), Jamal Mohamed College (Autonomous), Trichirappalli -20.

SEMESTER VI: EXTRA CREDIT IV

HOME SCIENCE

Course Code :	14UFT6EC4	Max Marks :	100*
Hours/Week :	-	Internal Marks :	-
Credit :	4*	External Marks :	100*

Objectives:

- To study the basic concept of home science.
- To learn the importance of nutrition and its processing.
- To make the students to understand the process of home management.
- To gain knowledge about stages in life span.

UNIT-I: CONCEPT OF HOME SCIENCE

Meaning and scope of Home Science, # History of Home Science #, Philosophy of Home Science – Structure and Components of Home Science – Basic principles of Home Science.

UNIT-II: FOOD SCIENCE

Functions of food, food groups, food preparation - # Dry heat methods # and wet heat methods. Food analysis – cereals, pulses, nuts and oil seeds, milk and milk products, eggs, flesh foods, vegetables and fruits, sugar and related products, spices.

UNIT-III: NUTRITIONAL SCIENCE

Fundamentals of nutrition. Nutritional Biochemistry – proteins, Carbohydrates, lipids, vitamins and minerals. Food preservation – Bactericidal methods and bacteriostatic methods. # Purchasing and storing of foods #.

UNIT-IV: HOME MANAGEMENT

Process of home management – Motivating factors of management (Values, Goals and Standards) - # Resource and its classifications #. Decision Making – steps in Decision Making. Housing – Kitchen planning and its types.

UNIT-V: CHILD DEVELOPMENT

Principles of development, # stages of growth from neonatal to old age and its characteristics#. Problems in child hood – withdrawn behavior, aggressive behavior, hyperactivity, fear & phobias, sleep disturbances, depression, autism, infantile autism, learning difficulties, dyslexia, mental subnormality.

#.....# **Self-Study Portion**

TEXT BOOKS:

T.B-1 Mullick.P, Text Book of Home Science, Kalyani Publishers, 2010.

T.B-2 Khosla.A and Manocha.R, UGC, NET / SET Home Science, Danika Publishers of Trueman's Specific Series, 2012.

T.B-3 Yadla.V.L and Jasrai.S, References Book for UGC in Home Science, Kalyani Publishers, 2006.

Unit I Chapter I **T.B-1**

Unit II Chapter I **T.B-3**

Unit III Chapter II **T.B-3**

Unit IV Chapter II **T.B-1**, Chapter III **T.B-2**

Unit V Chapter VII **T.B-3.**

Books for References:

1. Shanthi Ghosh, "Nutrition and Child Care – A Practical Guide", Jay Pee Brothers Medical Publishers Private Limited, New Delhi, 1997.

2. Davidson.S.S, Passmore.P, Broke.J.F, "Human Nutrition and Dietetics", 9th Edition, F & S Living Stone Limited, Edinburgh and London, 1993.

3. Jeliffee.D.B, "Assessment of the Nutritional Status of the Community", World Health Organization, Geneva, 1966.

4. Devadas.R.P, "Nutrition in Tamil Nadu", Sangham Publishers, 1972.