

ALAGAPPA UNIVERSITY, KARAIKUDI
NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2017-18)

B.Sc., FASHION TECHNOLOGY & COSTUME DESIGNING PROGRAMMING STRUCTURE

Sem.	Part	Course Code	Title of the Course	Cr.	Hrs./ Week	Max. Marks			
						Int.	Ext.	Total	
I	I	711T	Tamil/other languages – I	3	6	25	75	100	
	II	712E	English – I	3	6	25	75	100	
	III	7BFC1C1	Core – I– Fashion Designing	4	6	25	75	100	
		7BFC1C2	Core–II– Basic Sewing Techniques	4	6	25	75	100	
			Allied – I (Theory only) (or)	5	5	25	75	100	
			Allied – I(Theory cum Practical)	4	3	15	60	75	
			Allied Practical – I	-	2**	--	--	---	
	IV	7NME1A/ 7NME1B/ 7NME1C	Non-Major Elective – I – A)தமிழ்மொழியின் அடிப்படைகள்/ B) இக்கால இலக்கியம் / C) Communicative English	2	1	25	75	100	
	Total(Allied -Theory only)				21	30	-	-	600
	Total(Allied -Theory cum Practical)				20				575
II	I	721T	Tamil/other languages – II	3	6	25	75	100	
	II	722E	English – II	3	6	25	75	100	
	III	7BFC2C1	Core – III – Textile Science	4	6	25	75	100	
		7BFC2P1	Core-IV–Fashion Designing -Practical	4	5	40	60	100	
			Allied–II(Theory only) (or)	5	5	25	75	100	
			Allied–II(Theory cum Practical)	4	3	15	60	75	
				Allied Practical – II	2	2	20	30	50
	IV	7BES2	(3) Environmental Studies	2	2	25	75	100	
Total(Allied -Theory only)				21	30	-	-	600	
Total(Allied -Theory cum Practical)				22				625	
III	I	731T	Tamil /other languages – III	3	6	25	75	100	
	II	732E	English – III	3	6	25	75	100	
	III	7BFC3C1	Core–V–Principles of Pattern Making	4	5	25	75	100	
		7BFC3P1	Core–VI–Basic Sewing Techniques and Pattern Making -Practical	4	5	40	60	100	
			Allied–III (Theory only) (or)	5	5	25	75	100	
			Allied–III(Theory cum Practical)	4	3	15	60	75	
				Allied Practical – III	--	2**	--	--	--
	IV	7NME3A/ 7NME3B/ 7NME3C	(1) Non-major Elective – II – (A)இலக்கியமும்மொழிப்பயன்பாடும்/ (B)பழந்தமிழ் இலக்கியங்களும் இலக்கிய வரலாறும் / (C) Effective Employability Skills	2	1	25	75	100	
		7SBS3A1/ 7SBS3A2/ 7SBS3A3	(2) Skill Based Subjects – I	2	2	25	75	100	
		V	7BEA3	Extension activities	1	--	100	--	100
Total(Allied -Theory only)				24	30	-	-	800	

	Total(Allied -Theory cum Practical)			23				775
IV	I	741T	Tamil /other languages – IV	3	6	25	75	100
	II	742E	English – IV	3	6	25	75	100
	III	7BFC4C1	Core–VII–Textile Dyeing and Printing	4	4	25	75	100
		7BFC4P1	Core –VIII– Fabric Embellishment - Practical	4	5	40	60	100
			Allied – IV-(Theory only) (or) Allied–IV-(Theory cum Practical)	5	5	25	75	100
	IV		Allied Practical – IV	4	3	15	60	75
	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	(2) Skill Based Subjects – II	2	2	25	75	100
IV	7BVE4/ 7BMY4/ 7BWS4	(4) Value Education / Manavalakalai Yoga / Women’s Studies	2	2	25	75	100	
	Total(Allied -Theory only)			23				700
	Total(Allied -Theory cum Practical)			24	30	-	-	725
V	III	7BFC5C1	Core–IX–Garment Manufacturing Technology	4	6	25	75	100
		7BFC5P1	Core–X– Fabric Structure and Design – Practical	4	5	40	60	100
		7BFC5P2	Core–XI– Women’s Apparel – Practical	4	5	40	60	100
		7BFC1E1/ 7BFC1E2	Elective–I-A) Fabric Structure and Design (or) B) Fashion Clothing Psychology	5	5	25	75	100
		7BFC2E1/ 7BFC2E2	Elective – II- A) Visual Merchandising (or) B) Apparel Merchandising and Marketing	5	5	25	75	100
	IV	7SBS5A4/ 7SBS5A5/ 7SBS5A6/ 7SBS5A7	(2) Skill Based Subjects – III (2) Skill Based Subjects – IV	2	2	25	75	100
			Total	26	30	-	-	700
VI	III	7BFC6C1	Core–XII–Textile Testing	4	4	25	75	100
		7BFC6P1	Core–XIII–Textile Testing–Practical	4	6	40	60	100
		7BFC6P2	Core–XIV–Men’s Apparel–Practical	4	6	40	60	100
		7BFC6P3	Core – XV – Computer Aided Designing - Practical	4	5	40	60	100
		7BFC3E1/ 7BFC3E2	Elective – III-A) Garment Quality and Specifications (or) B) Indian Traditional Textiles and Embroidery.	5	5	25	75	100
	IV	7SBS6B4/ 7SBS6B5/ 7SBS6B6/ 7SBS6B7	(2) Skill Based Subjects – V (2) Skill Based Subjects – VI	2	2	25	75	100
				Total	25	30	-	-
	Grand Total			140	180	-	-	4100

**** University Examinations will be held in the Even semesters.**

B.Sc., FASHION TECHNOLOGY & COSTUME DESIGNING

I YEAR – I SEMESTER COURSE CODE: 7BFC1C1

CORE COURSE - I - FASHION DESIGNING

Unit – I FASHION CONCEPT

Terms related to the Fashion Industry - Fashion, Style, Fad, Classic, Collection, Chic, Mannequin, Fashion Show, Trend, Haute Couture. Meaning of Fashion, Origin of Fashion, Meaning of Fashion Designing, Classification of Fashion, Influence of Fashion; Fashion illustration and Fashion cycle, Fashion Theory

Unit – II DESIGN & ELEMENTS OF DESIGN

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 – III PRINCIPLES OF DESIGN, ACCESSORIES & TRIMMINGS

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

Unit – IV COLOURS

Colours – Importance. Dimensions of colour, Colour Theory – Prang colour chart. Colour Harmonies - Monochromatic, Analogous, Complimentary - Double Complimentary Split Complimentary, Traid Colours,,. Cool Colours and Warm Colours. CMYK Colours. Moods of Colour.

Unit – V FIGURE IRREGULARITIES

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.

Text books:

1. Khurana and Sethi, Introduction to Fashion Technology, Fire Well Publication, New Delhi, 2007.
2. Pundir. N, Fashion Technology Today and Tomorrow, Mittal Publication, New Delhi, 2007
3. Mary Mathews, Practical Clothing Construction-Part I, Cosmic Press, Chennai, 1997.

Books for Reference:

1. Narang, Hand Book of Fashion Technology, Asia Pacific Business Press Inc, New Delhi.
2. Fashion Designing- Study Material prepared by the Department.
3. Gupta et al, Text Book of Clothing and Textiles and Laundry, Kalyani Publishers, New Delhi, 2005.



**I YEAR – I SEMESTER
COURSE CODE: 7BFC1C2**

CORE COURSE –II-BASIC SEWING TECHNIQUES

Unit –I SEWING EQUIPMENT

Sewing machines- parts and their function, care and maintenance. Tools for measuring, marking, cutting & pressing. Selection of thread and needle for various types of fabric

Unit – II SEAMS AND FULLNESS

Seams : Definition, types of seams and seam finishes, factors to be considered in selection of seam

Fullness: Definition, Types of fullness – Darts, Tucks, Pleats, flares, godets, gathers, shirrs & frills. Calculating material requirements

Unit – III SLEEVES AND SKIRTS.

Sleeves:- Classification of sleeves, types of sleeves- plain, puff at top, bottom, bell, bishop, circular, leg-o-mutton, sleeveless styles, kimono & raglan. Pattern preparation for these sleeves. Skirts: Different types of skirts – Drafting patterns for semicircular and circular skirts.

Unit – IV NECK FINISHES AND YOKES

Neck finishes: -Definition, Bias- definition, joining bias and uses. Bias facing and bias binding. Collars – definition, parts of collar, factors to be considered in designing collar, classification of collar. Drafting for peter pan, cape, scallop, puritan, sailors, Chinese and Turtleneck collar.

Yokes: - Definition, selection of yoke design, creating variety in yoke. Drafting patterns for yoke without fullness, yoke with fullness within the yoke & yoke supporting or releasing fullness. Attachment of yokes

Unit – V POCKETS AND PLACKETS

Pockets - Definition, classification, selection of pocket and creating variety in pockets. Plackets - Definition, characteristics of a good placket, classification – continuous bound, bound & faced, fly opening, zipper, tailored and center front / shirt placket.

Text Books:

1. Mary Mathews, Practical Clothing Construction Part-II. Designing, Drafting and Tailoring Bhattarams Reprographics (P) Ltd., Chennai 2001
2. Zarapkar K.R, System of Cutting, Navneet Publications India 2005
3. Helen Joseph-Pattern Making for Fashion Design, Armstrong Pearson Education, Delhi, 2000.

Books for Reference:

1. Hilary Campbell, ” Designing Patterns Om Book Services, New Delhi, 2003.
2. Mary Mulasi, Garments with style, Chiton Book Company, Pennsylvania, 1995.



I YEAR – II SEMESTER
COURSE CODE: 7BFC2C1

CORE COURSE – III- TEXTILE SCIENCE

Unit – I FIBER MANUFACTURING

Introduction to the Fibers - Classification of Textile Fibers- Natural and Manmade fibers, Characteristics - Primary and Secondary properties of Textile Fibers. Manufacturing Process, Properties, Uses, application of Fibers. – Cotton, silk, wool, rayon, jute, polyester, recent textile fibers in market.

Unit – II YARN MANUFACTURING

Yarn - Conventional ring spinning method, chemical spinning method, others - Electrostatic spinning, Airjet spinning, Twistless spinning. Yarn twist, yarn count. Types and characteristics of yarns – ply yarns, cable yarns, double yarns and novelty yarns and its types.

Unit – III WEAVING

Preparation for weaving (warping, sizing, looming) Basic loom structure. Weaving- Definition, Primary motion – shedding – Definition and a brief explanation, picking (shuttle and shuttle less looms), beating up. Secondary motion – Definition and Ancillary motion. Types of selvages. Construction of cloth designs - Design, draft and peg plan. Classification of weaves – plain weave, twill, Satin, Crepe, Pile, double cloth, (Climax) dobby and Jacquard, (double lift double cylinder) Identification of woven fabric defects.

Unit – IV KNITTING

Knitting – Definition, Comparison between woven fabrics and knitted fabric. Classification of knitted fabrics weft knitting – plain knit stitch, Rib stitch, Warp knitting - Tricot knit, Raschel Knit, Milanese Knit, (Jacquard knit, pile knit, Terry knit, velour knit) Identification of knitted fabric defects.

Unit – V FELTED AND NON WOVEN FABRICS

Felted fabrics – Felting process. Types of felt, properties and uses of felt. Non woven – Definition, classification of non-woven fabrics, web forming techniques, bonding techniques, and finishing techniques. Characteristics of non-woven, uses of non-woven fabrics

Text Books:

1. Corbman B.P Fibre to Fabric, International Students Edition Mc Graw Hill Book Co-Singapore, 2000.
2. Sara J. Cadolph and Anna L. Lang Ford, Textiles, Prentice hall, New York, 2002.

Books for Reference:

1. Smith, J.L. Textile processing, Abhishek Publications, Chandigarh, 2003.
2. Gokarneshan U, Fabric Structure and Design, New age International Publishers 2004.
3. Kate Wells, Fabric Dyeing and Printing, Conran Octopus 2000



**I YEAR – II SEMESTER
COURSE CODE: 7BFC2P1**

CORE COURSE – IV- FASHION DESIGNING - PRACTICAL

A. PREPARE SKETCHES FOR THE FOLLOWING

Introduction to free hand drawing and basics of shading

1. Fashion Figure - 8 head theory .
2. Facial features- Eyes, nose, lips, ears.
3. Face, Hands, Legs-Different Positions.
4. Different Hairstyle for women –any five
5. Different poses of fashion figure (women and men)- any five

B. DRAW & SHADE THE FOLLOWING WITH SUITABLE SHAPE &SIZE

1. Different types of Collars.
2. Different types of Sleeves.
3. Different types of Necklines.
4. Different types of Skirts.
5. Different types of Ladies Tops.
6. Different types of Shirt.
7. Different types of Pant (full and half).
8. Different types of Salwar Kameez with Fashion Figure.
9. Different types of Accessories-Bags, Foot wear, Hats.
10. Different types of Ornaments – Traditional, Modern and Antique.

C. ILLUSTRATE FIGURES AND DESIGN GARMENTS

1. Casual wear, formal wear and stylish wear

D. PREPARE THE FOLLOWING CHARTS

- Prang Colour Charts
- Value Chart
- Intensity Chart

E. ILLUSTRATE GARMENT DESIGNS FOR THE ELEMENTS OF DESIGN

- Line, Color, Texture, Shape, Size

F. ILLUSTRATE GARMENT DESIGNS FOR THE PRINCIPLES OF DESIGN

- Balance, Harmony, Emphasis, Proportion, Rhythm

G. RESS DESIGN FOR THE FOLLOWING FIGURE IRREGULARITIES

- Thin figure, Stout figure, Broad shoulders, Large bust, Round face



**II YEAR – III SEMESTER
COURSE CODE: 7BFC3C1**

CORE COURSE - V - PRINCIPLES OF PATTERN MAKING

Unit – I BODY MEASUREMENTS AND TOOLS

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

Unit – II FABRIC PREPARATION & LAYOUT PLANNING:

Fabric preparation: Preparing the fabric for cutting, Importance of grain in fabric cutting and garment construction. Methods of straightening fabric grains.

Lay planning- Introduction, Rule to remember in pattern layout. Types of layout. Transferring pattern markings, stay stitching, ease stitching.

Unit – III DRAFTING, DRAPING AND FLAT PATTERN TECHNIQUES

Drafting: Preparation of paper patterns. Advantages of paper pattern. Pattern drafting with personal measurement. Principles for pattern drafting. Preparing draft for basic bodice, sleeve and skirt pattern.

Draping: Definition, types of dress form, preparation of adhesive paper dress form, Draping technique. Draping basic blocks (bodice, sleeve & skirts.).

Flat pattern Techniques: Definition, Pivot method, Slash & spread method, measurement method. Creating styles through dart manipulation and relocation of dart.

Unit – IV COMMERCIAL PATTERN AND PATTERN GRADING:

Commercial pattern: Definition, merits and demerits, Development of commercial pattern. Pattern Grading: Definition, Grading terminology, selecting a grading system, grading techniques, their advantages and disadvantages. Computer grading. Grading procedures. Grading of basic block using draft grading systems.

Unit – V PATTERN ALTERATION, GARMENT FITTING AND ASSEMBLING

Pattern alteration: Methods of identifying pattern alteration. General principles for pattern alteration. Common pattern alteration in a fitted bodice pattern. Garment fitting and Assembling Standards for a good fit, checking for good fit, solving fitting problems and remedies.

Text Book:

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



II YEAR – III SEMESTER
COURSE CODE: 7BFC3P1

**CORE COURSE –VI- BASIC SEWING TECHNIQUES AND PATTERN MAKING -
PRACTICAL**

1. Preparation of samples for Seams and Seam Finishes.
2. Preparation of samples for Hems.
3. Preparation of samples for Fullness.
4. Preparation of samples for Facings and Binding.
5. Preparation of samples for Plackets and Fasteners.
6. Preparation of samples for Sleeves - Plain Sleeve/Puff Sleeve (any one type).
7. Preparation of samples for Yokes -with and without Fullness.
8. Preparation of samples for Collar- Peter Pan Collar, Full Shirt Collar and Shawl Collar.
9. Preparation of samples for Pocket - Patch, Bound and Side Seam.
10. Preparation of basic bodice pattern
11. Preparation and grading of patterns for women's garments



**II YEAR – IV SEMESTER
COURSE CODE: 7BFC4C1**

CORE COURSE -VII – TEXTILE DYEING AND PRINTING

Unit – I TEXTILE PROCESS

Water, water Hardness, types, quality required for wet processing industries, softening process, preparatory process sequence for woven and knitted fabric. Need for processing - Dry and wet processing for fabrics – Preparatory wet processing – Singeing, desizing, scouring, bleaching, mercerizing, degumming and carbonizing.

Unit – II DYEING

Classification of dyes – Natural Dyes, mordants and its types, mordanting techniques. Dyeing method, Advantages & Disadvantages of natural dyes. Synthetic dyes – Basic dyes, Direct dyes, vat, sulphur, Naphthol, Reactive, Azoic, acid, and disperse dyes.

Unit – III DYEING METHODS

Stages of dyeing Methods of Dyeing - Batch, Winch, Jigger, Package, hank dyeing. Colourfastness tests. Recent advancement and technology in dyeing.

Unit – IV PRINTING

Printing-introduction to printing, Differences between printing and dyeing, preparation of fabric for printing-cotton, polyester, wool and silk, Methods of Printing, Preparation of printing paste, Selection of thickening agents.

Unit – V PRINTING METHODS

Direct Printing: Block Printing, Stencil printing, Screen printing, Discharge Printing, Resist printing – batik and tie and dye. Other Printing Methods: Mino printing Inkjet printing, Heat transfer printing, photo printing.

Text Books:

1. Textile Dyeing and Finishing- Study Material prepared by the Department.
2. Needles.H.L, Textile Fibers, Dyes, Finishes and Processes , Noyes Publications, 2011.
3. Smith.J.L, Textile Processing, Printing Dyeing, Finishing, Abhishek Publications, Chandigarh, 2006.
4. Beginners Guide to fabric Dyeing and Printing – Stuart & Robinson, Technical Books, London (1982)

Books for Reference:

1. Singh.K.V.P, Elementary Idea of Textile Dyeing, Printing and Finishing ,Kalyani Publishers, 2009.
2. Corbman.B.P, Textile Fiber to Fabric, MCGRAW, HILL International Edition, Sixth Edition, 2009.



**II YEAR – IV SEMESTER
COURSE CODE: 7BFC4P1**

CORE COURSE - VIII - FABRIC EMBELLISHMENT-PRACTICAL

1. **Basic Hand Stitches**
 - a) Running – Whipped Running Stitch, Threaded Running Stitch
 - b) Hemming
 - c) Back Stitch - Whipped Back Stitch, Threaded Back Stitch

2. **Basic Embroidery Stitches**
 - a) Chain stitch and its types
 - b) Fern Stitch
 - c) Stem Stitch
 - d) Lazy Daisy Stitch and its types
 - e) Blanket (or) Button Hole Stitch
 - f) Satin

3. **Advanced Embroidery Stitches**
 - a) French Knot,
 - b) Bullion Knot
 - c) Feather – Double Feather Stitch, Closed Feather Stitch
 - d) Herring bone and its types
 - e) Cross Stitch

4. **Other surface Embroidery**
 - a) Cut work
 - b) Mirror work
 - c) Applique/ Patch – Hand Applique, Machine Applique
 - d) Bead and sequence
 - e) Zardosi
 - f) Tasseled – Corded Tassled
 - g) Fringes



**III YEAR – V SEMESTER
COURSE CODE: 7BFC5C1**

CORE COURSE - IX–GARMENT MANUFACTURING TECHNOLOGY

Unit – I

Planning, drawing and reproduction of the marker. The requirements of marker planning. Efficiency of the marker plan. The spreading of the fabric to form a lay. The requirement of the spreading process. Methods of spreading, nature of fabric packages. The cutting of fabric, objectiveness of cutting and methods of cutting

Unit – II

The properties of seam, seam types, stitch types. Sewing machine feed mechanism, sewing machine needles, Sewing threads, fiber type, construction of thread finishes. Thread sizing, thread packages, cost, properties and seam performance. Sewing problems, Problems of stitch formation. Problem of pucker, problems of Damage to fabric along the stitch line. Testing for sewability and Tailorability.

Unit – III

Basic sewing machines and associated work aids, simple automation . The use of components & trims – Labels and motifs, lining, Interlining, wadding, lace, braids & elastics, Hooks and loop fastening, Seam binding and tape, Shoulder pad, Eyelets & laces, Zip fastener, Buttons, Tack buttons, Snap fasteners and Rivets, Performance properties of components and trims.

Unit – IV

Fusing – Definition, advantages of fusible interlinings, Fusing process. The means of fusing, Fusing equipments, Methods of fusing, quality control in fusing. Alternative of fusible interlining.

Unit – V

Pressing: the purpose of pressing, categories of pressing, means of pressing, pressing equipments and methods, pleating, permanent press. Pressing practices in Indian Industries

Text Books:

1. Introduction to clothing production management – 2nd edition, A.J. Chutter, Blackwell Science, New Delhi.,2000
2. Gerry Cooklin, Garment technology for Fashion Designers –Blackwell Science, New Delhi ,2000.
3. Gerry cooklin, Introduction to clothing manufacture–Blackwell Science,New Delhi,2000.
4. Dudeja.V.D., Professional Management of Fashion Industry, Gangandeeep Publications, New Delhi, 2005.

Books for Reference:

1. Philip Kotler and Kevin Lane, Marketing Management, Keller, Pearson Education Inc., Delhi., 2006.
2. Kitty G. Dickerson, Inside the Fashion Business, Pearson Education, Singapore,2003.
3. Kathryn Mokelvey, Janine Munslow, Fashion Design Process, Innovation And Practice, Black Well Science Ltd, U.K,2005.



**III YEAR – V SEMESTER
COURSE CODE: 7BFC5P1**

CORE COURSE - X– FABRIC STRUCTURE AND DESIGN – PRACTICAL

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

1. Plain Weave
2. Twill Weave
3. Satin
4. Sateen
5. Honey Comb Weave
6. Huck a Back Weave
7. Mock-leno Weave
8. Extra Warp Figuring
9. Extra Weft Figuring
10. Double Cloth-any one type
11. Pile fabric



**III YEAR – V SEMESTER
COURSE CODE: 7BFC5P2**

CORE COURSE -XI– WOMEN’S APPAREL -PRACTICAL

Designing, Draft and construct the following Garments

1. Infant wears- Bib, Panty and Jabla
2. Baba suit / Romper.
3. Children’s frock - 2 variety
4. Knickers - Elastic Waist.
5. Saree Petticoat- Six Panel, Decorative Bottom.
6. Blouse- Front/Back Open, Fashioned Neck, Waist Band at Front, with Sleeve.
7. Ladies tops
8. Salwar / Churidhar
9. Kameez with/ without Slit, with /without Flare, with/without Opening, with/ with out Panels, with/ without Sleeve.
10. Nightie / Maxi with / without fullness, with/without opening, with/without yokes, with/without puff sleeve.



**III YEAR – V SEMESTER
COURSE CODE: 7BFC1E1**

ELECTIVE COURSE- I (A) – FABRIC STRUCTURE AND DESIGN

Unit – I WOVEN DESIGN FUNDAMENTALS

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

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

Unit – III FIGURED FABRICS

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

Pile Fabric- Types of velveteen, 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

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

Text Book:

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

Books for Reference:

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.



**III YEAR – V SEMESTER
COURSE CODE: 7BFC1E2**

ELECTIVE COURSE - I (B) – FASHION CLOTHING PSYCHOLOGY

Unit – I FASHION TERMS

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

Unit – II FASHION PSYCHOLOGY

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

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 references.

Unit – IV FASHION DESIGNERS

Indian Designers-Rohit Khosla, Gitanjal Ksshayap, 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

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

Text Books:

1. Elaine Stone, The Dynamics of Fashion, Fairchild Publications, New York, 2001.
2. Jenny Davis, A Complete Guide to Fashion Designing, 1st Edition, Abhishek Publication, Chandigarh, 2009.
3. Frings, Fashion from Concept to Consumer, 7th Edition, Dorling Kindersley Publishing Inc, India, 2008.
4. Man Meet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2009.
5. Man Meet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2007.
6. Pundir, Fashion Technology Today and Tomorrow, A Mittal Publication, New Delhi, 2007.
7. M.R. Soloman & N.J. Rabolt, Consumer Behaviour in Fashion, Dorling Kindersley Publishing Inc, India, 2006.

Books for Reference:

1. Benneett, “Femina Book of Fashion”, coleman & Co., Ltd., Mumbai (1998)
2. Jeaneette A. Jarnow, Miriarn Guerrerio, “Inside the Fashion Business”, Mecmillion Publishing Company, New York
3. Harriet T, Mc Jimsey, “Art and fashion in clothing selection”, The Iowa state University Press, Ames, Iowa



**III YEAR – V SEMESTER
COURSE CODE: 7BFC2E1**

ELECTIVE COURSE - II (A) - VISUAL MERCHANDISING

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:

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

Books for Reference:

1. Rajesh, Managing Productivity in Apparel Industry.
2. Banotia.V, Marketing Management, Mangal Deep Publications, 2001.
3. Jones.R.M, The Apparel Industry.



**III YEAR – V SEMESTER
COURSE CODE: 7BFC2E2**

ELECTIVE COURSE – II (B) - APPAREL MERCHANDISING AND MARKETING

Unit – I MARKETING

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

Unit – II MERCHANDISING

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

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

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

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

Text Books:

1. Sodha and Chatley , Fashion Marketing and Merchandising, Kalyani Publication, New Delhi, 2008.
2. Frings, Fashion from Concept to Consumer, Seventh Edition, Dorling Kindersley Publishing Inc, India, 2008.
3. Kotler et al, Marketing Management, 13th edition, Dorling Kindersley Publishing Inc, India, 2009.
4. Anurag.S. and Bhalla, Visual Merchandising, Tata McGraw Hill Education Private Limited, New Delhi, 2010.

Books for Reference:

1. Davis Burns and Bryant, The Business of Fashion, Fair Child Publications, New York, 2002.
2. Goworek, Careers in Fashion and Textiles, Blackwell Publishing, NewDelhi, 2006.
3. Elaine Stone, The Dynamics of Fashion (2001), Fairchild publications, New York.
4. Michanel R. Soloman& Nancy J. Rabolt, Consumer Behaviour in Fashion.



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC6C1**

CORE COURSE -XII- TEXTILE TESTING

Unit – I QUALITY CONTROL: DEFINITION AND ITS IMPORTANCE.

Humidity: Definition and its influence on fiber properties Standard atmospheric condition, Standard testing atmosphere. Standard regain, Moisture content and regain. Measurement of atmospheric condition – wet and dry bulb Hygrometer and sling Hygrometer.

Unit – II FIBRE TESTING

Fiber Testing: Fiber length – Baer sorter and Fibrograph, Fiber strength – Stelometer, Fiber fineness – Micronaire, Fiber maturity, Trash content - determination – Trash analyzer.

Unit – III YARN TESTING

Yarn testing: Determination of yarn count – quadrant, Analytical & Beesley balance. Twist – Direction of twist and amount of twist, Twist effect on fabric properties. Strength of yarn-Single yarn strength tester. Crimp – Shirley crimp tester. Yarn appearance tester. Evenness – Uster Evenness tester, Hairiness – Uster Hairiness tester.

Unit – IV FABRIC TESTING

Fabric Testing: Fabric strength tester – Tensile strength, tearing strength & bursting strength. Abrasion – Types of abrasion – pilling – Martindale pill box tester.

Unit – V FABRIC TESTING

Drape – Drape meter, Fabric stiffness - Shirley stiffness Tester, crease recovery – Shirley crease recovery tester. Thermal conductivity, water absorbency test, Water repellency tester.

Books for Reference:

1. Principles of textile testing by J.E. Booth., C.B.S., publishers & distributors, New Delhi, 1996.
2. Mishra S.P and Kesavan B.K, “Fibre Science”, Kumarapalayam, S.S.M. Institute of Textile Technology



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC6P1**

CORE COURSE - XIII– TEXTILE TESTING – PRACTICAL

I. YARN TEST

1. To identify the yarn and fibers using binocular microscopic test
2. To determine the yarn count using single yarn twist tester.
3. To determine the yarn count using beesley balance method.
4. To determine the yarn count using quadrant balance.
5. To determine the coarse length form knitted fabric.

II.FABRIC TEST

6. To determine the thickness of a fabric using thickness tester.
7. To determine the stiffness of a fabric using stiffness tester.
8. To determine the drape of a fabric using drape meter.
9. To determine the shrinkage of a fabric using shrinkage template and scale.
10. To determine the strength of a fabric using tensile strength tester.
11. To determine the bursting strength of a fabric using bursting tester.
12. To determine the crease recovery of the fabric using crease recovery tester
13. To determine the rubbing fastness of a dyed fabric using Crock Meter with grey scale

Book for Reference:

1. Principles of textile testing by J.E. Booth., C.B.S., publishers & distributors, New Delhi, 1996.



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC6P2**

CORE COURSE - XIV–MEN’S APPAREL – PRACTICAL

Designing, Draft and construct the following Garments

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



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC6P3**

CORE COURSE - XV – COMPUTER AIDED DESIGNING – PRACTICAL

CREATE THE FOLLOWING DESIGNS

Motifs

1. Embroidery Designs for Kerchiefs.
2. Necklines.
3. Chest Prints.
4. T-Shirt.

Children's Garments

1. Jabla
2. Frocks
3. Sun Suit

Women's Garments

1. One Piece Dress
2. Middi & Tops
3. Salwar Kameez
4. House Coat
5. Nighty

Men's Garments

1. SB Vest
2. T-Shirt
3. Shirt
4. Kurta
5. Pant

Create Logos for Branded Companies.

Create Label for Garments Companies.



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC3E1**

ELECTIVE COURSE – III (A) – GARMENT QUALITY AND SPECIFICATIONS

Unit – I BASICS OF QUALITY CONTROL

Definition and Scope of Quality Control – Establishing Merchandising Standards – Establishing Raw Material Quality Control specifications – Quality Control of Raw Material. Inspection system – 4 point, 10 point system

Unit – II QUALITY CONTROL SYSTEM

Establishing Processing quality specification – Training Quality Control Personnel – The Quality Standard Control – Quality Control Inspection, Procedures for processing – Quality control of finished garments – Quality control and Government contacts – Quality Control for Packaging, Warehousing and shipping – Statistical Quality Control, Sampling plans – industry – wide quality standards.

Unit – III BASICS OF PRODUCTION CONTROL

Function of Production control – Production, Analysis – Quality Specifications – Quantitative specifications – Scope of Apparel Manufacturing Activity – Co-ordinating Departmental Activities – Distribution of Documents and Records.

Unit – IV PRODUCTION CONTROL SYSTEM

Type of Control forms – Basic Production Systems – Principles for Choosing a Production System – Evaluating Production Systems – Flow Process Grids and Charts – Basic Flow Process Grid Construction – Flow Process Grids for Production control – Scheduling Producing Many Styles Simultaneously – Producing Many styles consecutively in one line.

Unit – V COST CONTROL

Function 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 Ration Policies – the manufacturing Budget – Cash flow Control – Standard Cost Sheet, Break–Even Charts.

Books for Reference:

1. Patty Brown, Janett Rice,-Ready to wear apparel analysis,Prentice Hall,1998.
2. Salinger, Jacob Apparel, “Manufacturing Analylsis”, New York, Textile Books Futs, 2001



**III YEAR – VI SEMESTER
COURSE CODE: 7BFC3E2**

**ELECTIVE COURSE - III (B) - INDIAN TRADITIONAL TEXTILES AND
EMBROIDERY**

Unit – I INTRODUCTION TO INDIAN COSTUMES

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.

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, Tamil Nadu, Kerala, Andhra Pradesh,, Karnataka

Unit – III EMBROIDERIES OF INDIA

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

Introduction to woven textiles of India – Brocades of Banaras, Himrus, Amrus Baluchari, Pithambar, Tamilnadu Saree. Types of woven Kashmir shawls – Do- shala, Do-rookha, Kasubha shawl,

Unit – V TRADITIONAL PRINTED AND DYED TEXTILES

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.

Text Books:

1. Parul Bhatnagar, Traditional Indian costumes and Textiles, First Edition, Abhishak Publications, Chandigarh, India, 2004.
2. Manmeet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2007.
3. Manmeet Sodhia, History of Fashion, Kalyani Publishers, New Delhi, 2009.
4. History of Costumes and Textiles – Study Material prepared by the Department.

