

Placed at the Special Meeting
of the Academic Council
held on 25.06.2008

APPENDIX - BP

MADURAI KAMARAJ UNIVERSITY
(University with Potential for Excellence)

B.Sc - COSTUME DESIGNING & FASHION TECHNOLOGY
I SEMESTER

Part	Study Component	No of Course	Credits per Course	No. of hours
I	Tamil / Other Languages	1	3	6
II	English	1	3	6
III	Core Subject Introduction to Fashion Designing	1	4	4+2 (P)
	Allied Subject Concept of Apparel Designing	1	4	4+2(P)
IV	Skilled based Subject Sewing Technology	1	1+1	1+1
	Fashion Illustration - I	1	1+1	1+1
	Non- Major Elective (for Science students only) Embroidery & Surface Ornamentation	1	2	2
	Total	7	20	20

II SEMESTER

Part	Study Component	No of Course	Credits per Course	No. of hours
I	Tamil / Other Languages	1	3	6
II	English	1	3	6
III	Core Subject History of Costume & Textiles of India	2	4+2	4+2(P)
	Allied Subject Fiber Science	2	4+1	4+2(P)
	Skilled based Subject Pattern Making & Grading	1	1+1	1+1

	Fashion Illustration - II	1	1+1	1+1
	Non-Major Elective Subject (for Arts students only) Embroidery & Surface Ornamentation	1	2	2
Total		9	23	30

III SEMESTER

Part	Study Component	No of Course	Credit	Hours
I	Tamil / Other Languages	1	3	6
II	English	1	3	6
III	Core Subject Designing & Constructing Children's Apparel	1	4	4+2(p)
	Allied subject I Textile Science - Weaving	1	4	4+2(p)
	Allied subject II Textile wet processing - Dyeing	1	4	4+2(p)
Total		5	18	30

IV SEMESTER

Part	Study Component	No of Course	Credit	Hours
I	Tamil / Other Languages	1	3	6
II	English	1	3	6
III	Core Subject Designing & Constructing Women's Apparel	2	4+2	4+2(p)
	Allied subject I Textile Science - Knitting	2	4+1	4+2(p)

	Allied subject II Apparel Marketing ✓	2	4+1	4+2(p)
Total		8	22	30

V SEMESTER

Part	Study Component	No of Course	Credit	Hours
III	Core Subject			
	Fashion Marketing	1	4	4+2(P)
	Quality control in Apparel production	1	4	4+3(P)
	Designing & Constructing Men's Apparel ✓	1	4	4+3(P)
	Allied subject II Fashion Apparel Merchandising	1	4	4+2(P)
IV	Environmental Studies	1	2	2
	Skill Based subject Computer application in clothing	1	2	2
Total		6	20	30

VI SEMESTER

Part	Study Component	No of Course	Credit	Hours
III	Core Subject			
	Management of Apparel Units	1	2+2.5	2+1
	Portfolio Presentation	1	2+2.5	2+2
	Textile wet processing – printing & finishing	1	2+2.5	2+2
Optional	Home Textiles	1	2+2.5	2+1
	Technical Textiles	1	2+2.5	2+1
	Accounting & Business Management	1	2+2.5	2+1
	Allied Subject II Entrepreneurship Development	2	4+1	4+2 (P)
	Value education	1	2	2
	Skill Based subject Computer application in clothing - Lab	1	2	2
V	Extension Activities	1	1	0
Total		11	37	30

SEMESTER I
INTRODUCTION TO FASHION DESIGNING

UNIT I

PRINCIPLES OF DESIGNING

Design - Definition, requirements of good structural and decorative design. Structural and decorative design in dress. Creating variety through structural and decorative designs. **Harmony** - Definition, aspects of harmony, repetition, harmonious lines and shapes, size and textures. Application of harmony in dress design. Harmony of ideas to the treatment of a decorative motif.

Proportion - Definition, aspects of proportion, space relationships, Greek oblong. How to divide a space. Lines which apparently alter proportions. Application of proportion in dress design, scale or consistent sizes, application in dress.

Rhythm - Definition, how to gain rhythm, rhythm through repetition, progressive of sizes, continuous line movement and radiation, application of rhythm in dress design.

Emphasis - Definition, what, How and How much to emphasis, where to place emphasis, application of emphasis in dress design. **Balance** Definition, formal and informal balance, application of balance in dress design.

UNIT II

COLOUR IN DRESS

Definition, colour theories, the colour system Dimension of colour how to change hues. **Value** - Definition, how to change values tint and shades.

Intensity - Definition, how to change intensity. Making a colour chart. Standard colour harmonies. Design principles applied to colour in dress design.

Colour for individual types - factors influencing colour choices, effect of value and intensity upon the individual for different types of complexion colours for people with gray hair, colour difficult to wear.

Cosmetics - applying rouge and lipstick in relation to the facial structure, hues for power, rouge and lipstick.

UNIT III

FASHION DESIGNING FOR THE PERSONS WHO HAVE USUAL PROBLEMS IN DRESS

The Stout figure, the thin figure, slender figure, narrow shoulder, broad shoulder, round shoulders, large bust, flat chest, large hip, large abdomen, short waist, long waist, sway back - long neck, short or thick neck-large face, small face, square or broad face, round face, narrow pointed face. Nose-Prominent nose, prominent chin and jaw-Receding chin and small jaw, prominent forehead-low forehead, sharp angular features-large features.

UNIT IV

Origin of Fashion - Definition of fashion. Style and fad. Terms related to fashion Industry such as Boutique. Collection, Mannequin, Chic, Classic, Custom made, Fashion shows, Trend, High fashion etc.

Reasons for fashion changes - Psychological needs for fashion. Development of personal identify, social psychology of fashion. Temporal variations in fashion and fabrics. Role of costumes as a status symbol, sex appeal and identity, Fashion and Season

UNIT V

Fashion Industry - Creation of fashion design - Production - Distribution Promotion (Fashion shows, Preview) Related skills in sketching, fitting, collections Production including merchandising, buying, serving, selling ability - Organizing as business.

Fashion abroad and in India - Centers of Fashion in the world France, Italy, America, Far East and India.

REFERENCES

1. Goldstein and Goldstein. Art in Everyday life. MacMillan and Co., New York.
2. Mathews M. Practical Clothing construction. Part III. Cosmic Press, Madras.
3. Brockman C.H. The theory of Fashion in Design John Wiley and sons Inc., New York
4. Mc. Jimsey and Harriet. Art and Fashion in clothing Construction. Iowa Sta

5. Rathbone and Tarpley, Fabric and dress. Houghlon Mifflin Co., Cambridge.
6. Markstorm, Dorathy and Jane. Guide to Modern Clothings, Mc.Graw Hill Book Company, New York.
7. Lewis-et-al Clothing Construction and wardrobe Planning. Macmillan Company. New York 1960.
8. Psychology of clothing Bush G. London Press London.
9. Art and Fashion in Clothing selection Harrier Inc Jimsey, Lowa State University Press, 1973.
10. The Theory of Fashion Design, Ten Willey & Sons. Inc. By Helen L. Brookman, New York.
11. Cloths with character D.C. Health & Co., Boston.craiy H.T and rush.
12. Fabrics and Dress Houghton Mifflin & Co., Cambridge Ruth bone. L & Tarpley - E.
13. Understanding Fashion B.S.P. Professional Books Melbourne. Elisabeth Rouse, 1989.

Journals

1. Femina. A Times of India Publication
2. Eve. S. Weekly, A Times of India Publication
3. Women's Era. Vishwanath, Delhi Press, New Delhi.
4. Apparel. The Clothiers Digest - Bombay.
5. Clothes line-media and marketing association. Bombay.

SEMESTER I
CONCEPT OF APPAREL DESIGNING APPAREL DESIGNING

UNIT I

DRESS MARKING

Methods of Dress - Home made Garments. Tailor made Garment and ready made Garment, their advantages and disadvantages. Selection of fabric - factors to be considered in selection. Grain- Importance of Grain in fabric cutting and garment construction, preparing the fabrics for cutting straightening fabric ends and fabric grain, methods of straightening fabric grains.

UNIT II

SEAMS, NECK FINISHES, PLACKET AND CLOSURES

Seams - definition, Types of seams and their choice, working on common seams, seam finishes, Bias - uses, cutting and joining bias, strips bias facings, fitted or shaped facing, decorative facing. Bias binding - and French binding. Method of their application. Plaquettes and openings - definition, characteristics of a good placket, types of Plaquettes, continuous bound plaquettes, bound and faced placket, tailored placket, bound neck opening and centered front opening, Method of their application. Closures definition. Types and choice, Button and Button holes, Button and Loops, fancy Buttons, Press buttons, Hooks and eyes, method of their application.

UNIT III

DESIGNING SLEEVES AND COLLARS

Sleeves - Factors to be consider, classification - type of sleeves Plain sleeve, Puff sleeve, Gathered at top and bottom sleeve, Bell sleeve, Bishop Sleeves, Circular Sleeves, Leg-o-mutton Sleeve, Sleeveless style. Bodies and sleeves method for applying various types of sleeves. Collars-Factors to consider. Classification, Flat fell collar, Partial roll collar and standing collar, puritan collar, Chinese collar, full shirt collar, turtle neck collar, shawl collar, Method for applying various types of collars.

UNIT IV

DESIGNING YOKES AND ADDING FULLNESS

Yokes - Definition, selection of yoke design, different types of yokes - simple yoke, yoke with and without fullness, midriff yoke, method of attaching yoke, Fullness - Definitions, types, Dart - single and double pointed darts. Tucks - pin tucks, cross tucks, piped tucks, shell tucks. Pleats - knife pleat, box pleat, inverted box pleat, pinch pleat, flare and goddets. Gathers and shirts. Single and double frills.

UNIT V

CREATING APPAREL STYLE THROUGH DART : RELOCATION WITH FULLNESS

Dart relocation by slash and spread method - converting darts to seams, converting darts to partial yoke, incorporating dart into a seam. Designing dress style with fullness. Lining and inter lining -definition, Purpose and suitable materials.

References

1. Mathews. M. Practical Cloting Construction Part I Cosmic Press, Madras.
2. Mathews. M. Practical Clothing Construction Part II Cosmic.
3. Lester N. Dress Making - Skills, Techniques and Designs, Paulton, Sampson low Marsopn & Co. Ltd.
4. Reader's Digest Sewing Guide. Complete Guide to Sewing 13th Edition. the Reader's Digest Association, Inc., Pleasant Ville, New York.
5. Erwin M.D., Praction Dress Design, the Macmillan Company, New York.

JOURNALS

1. Apparel, The Clother's Digest, Mumbai.
2. Clothesline, Media and Marketing Associations, Mumbai.

SEMESTER I

SEWING TECHNOLOGY

UNIT I

Sewing Machineries - Part and Functions of single needle machine, Double needle machine overlock machine, bar tacking, Button hole making, button fixing. Elind Stitching machine, fabric examining machine, Electric Cutting machine. Special attachment Care and maintenance. Common Problem and their remedies.

UNIT II

Stitching mechanism - Needles, Bobbin and bobbin cases, Bobbin Winding, Shuttle and shuttle Hooks, Loops, Loop & Spreader, threading Figures. Upper and Lower threadig, Auxiliary hooks. Throat Plates, Take ups, Tension discs, Upper and Lower thread tension. tension Guide, Stitching auxiliaries. Chaining plates feed mechanism, Needle Feed, In feed, dog feed, rotary feed, drop oscillation feed dog. Pressure foot and its types Pressure regulators - Stitch lenght, Times sequence in stitch formation.

UNIT III

Cutting Technology Definition, Function, Scope, Types of Spreads and its quality, specification spreading equipment and tools, spreading methods, cutting equipments and tools, vertical reciprocity, cutting machine, Die cutters, cutting drills, computerized cutting machines.

UNIT IV

Marking Methods, Positioning marking, Types of markers, Notches, drills and computer aided markers.

UNIT V

Sewing : Federal Standards for stitch and Seam Classification, seam quality, Fabric Sewability, identification and classification of sewing machines, Types of Sewing Machine. Special Attachments. Sewing supplies, Sewing threads, Embroidery thread metallic thread and elastic thread.

References

1. Reader's Digest Sewing Guide, Complete guide to Sewing 13th Ed. The Reader's Digest Association, The pleasant Ville, New York
2. Coles M. Sew - A complete guide for Sewing today. Heinemann Professional Publishing, Singapore.
3. Mary Mathews, Practical Clothing Construction Part I, Cosmic Press, Madras.
4. Eshwari Anwani Lachraj hanns, Cutting and Tailoring Technology, R.R. Publications, Delhi.
5. Mushero, Elisabeth J Sewing sort cuts from A to Z., New York Vau Nostraud Reinhold 1978.
6. Brown, Gail, Sewing with sergers. the complete handbook for over lock sewing portland Irwin - Hodson 1985.
7. Federal standard: stitches seams and stitching U.S. general sewing Administration 1977.
8. Goldworthy manurean, Jackets, London, Mills & Boon 1980.
9. Hall, Gerald Washall stage 5 Tailoring Techniques London, Fredrick Warne, 1984.
10. Maccum, Donald H How to make sewing pattern san Francisco, Design Entreprises 1981.

SEMESTER - I

FASHION ILLUSTRATION - I

- UNIT - I :** Introduction to fashion and design.
Elements of design and color harmony.
- UNIT - II:** Fashion illustration
71/2,8& 10 head theories.
- UNIT - III:** Drawing arms, hands, legs and feet, head and face.
- UNIT - IV:** Drawing shoes, bags, hats, gloves and hairstyles
- UNIT - V:** Techniques of Layout and presentation

Reference:

1. Ireland . Patrick,J., "Basic Fashion Drawing", Batsford, 1972.
2. Solance.Eunice, " Illustrating Fashion", Harper & Row", 1977.
3. Elisabetta Drudi & Tiziana pac., " Figure Drawing for Fashion Design", The Pepin press, Singapore.
4. Patrick John Ireland "Fashion Design Drawing & Presentation", London.
5. Ritu,"Fashion Design & Illustration", Indica Publishers, Delhi.

SEMESTER I

EMBROIDERY AND SURFACE ORNAMENTATION

(for Science Students only)

UNIT I

Introduction to Embroidery - Development - General rules for hand and machine embroidery, adjustment of sewing machine for Embroidery. Selection of material, thread and needle.Importance of Design - Own Design, Traced Design ,Method of Tracing and Special Points.

UNIT II

TRADITIONAL INDIAN EMBROIDERIES

Origin of Indian Embroidery. Embroidery Stitches used – kashida of Kashmir,kantha of Bengal, Phulkari of Punjap. Kutch - Kathiawar and zari embroideries Embroidery of Rajasthan, Kasuti of Karnataka, Chicken work of Lucknow - in all the above, the types and colour used, Motifs and fabrics used and their historical importance.

UNIT III

HAND EMBROIDERY STITCHES

Hand embroidery stitches- running, stem, blanket, lazy daisy, chain couching, herring bone, fish bone, feather- single and double, Rumanian, seeds, cross, fly, satin, long and short. French knot, bullion knot, double knot.

UNIT IV

MACHINE EMBROIDERY

Ruming, Cording, Satin, Long and short, Granite or Round Stitch, Eyelet, Cut Work, Letters and monograms, fancy stitches on white goods and applique on net.

UNIT V

Creating style through surface trimming- bias trimming, ric-rac, ruffles, smocking, faggoting, drawn thread work, cut work, belts and bows, quilting, crocheting, tating, hand knitting. Patch work, appliqué work-velvet, plain, printed appliqué, mirror work, sequins, patch work, bead work, shadow work, fabric painting- using fabric colours, glitters, pastes.

References

1. Creative Art of Embroidery, Barbara Snook, Humbly Publishing Group Ltd., London 1972.
2. Singer Instruction of Arts Embroidery and Lace Work singer Sewing Matching Company, 1948.
3. India Embroidery - Kamaladevi Chartrophadhya Willey Eastein Ltd., New Delhi 110 016.
4. Phulkari - Ministry of Communication Development and Co-operation.
5. Bhusan J.R. Costumes and Textiles of India, Jaraporavala & Sons

SEMESTER II

HISTORY OF COSTUME AND TEXTILES OF INDIA

UNIT I

Beginning of Costume -- Origin of Clothing, Growth of dress out of painting
Cutting and other methods:

Costume of India, Traditional Costume of different states of India. Factors
influencing costume changes. Accessories and ornaments used in India

Costumes of Far Eastern countries, Pakistan, Ceylon, China, Burma, Thailand
Philippines and Japan.

UNIT II

Costumes of Ancient Civilization - Egypt, Greece and Roman French Costume
French Costume during Renaissance 1500 to 1600

UNIT III

English Costume - English Costume during middle ages.

American Costumes - American Costume from 18th to 20th century.

UNIT IV

Classification of Traditional Textiles of India

a) Woven

b) Dyed

c) Embroidered.

UNIT V

Study of the following woven textiles with emphasis to fabric, Pustre, design
colour and weaving techniques.

a) Dacca Mulin, Jam Dani, Chanderi Brocades, Baluchijar, Himrus and Amru
Carpets, Kashmir Shwals.

b) Dyed and Printed textiles of India Bhandhai, Patola, Ikkat - Techniques of
dyeing adopted.

Kalamkari and other painted textiles. Block printed fabrics of India

References

Das. S.N. Costumes of India and Pakistan. D.B.Taraporevala Sons & Co., Mumbai

1958.

Jamila Brij Bhushan - The Costumes and Textiles of India

Dorris Flyn, Costumes of India Oxford & IBH Publishing Co., New Delhi, 1971.

Lesla K. T. Histories Costume Chase, A.Bennet and Co., Inc., Illinois, 1961.

SEMESTER-II

FIBER SCIENCE - FIBER AND YARN

UNIT - I

Textile fiber - Definition - Properties required for Textile fiber - Classification of textile fiber. Brief study and important properties of cotton, silk, wool and Bast fibers.

UNIT - II

Introduction to spinning methods - Dry, Wet, Melt Spinning.

Brief study and important properties of regenerated Cellulose fibers - Viscose Rayon, Acetate Rayon, High wet modulus Rayon - Modal, Tencel.

UNIT - III

Brief study and important properties of Synthetic fibers - Polyester, Nylon and Acrylic fibers.

Texturisation - Definition - Types - Properties and uses of textured yarn.

UNIT - IV

Principle of short staple spinning - Brief study on the Sequence of process involved - Basic functions of each process. Passage of material through blow room, carding, combing, drawing, speed frame and ring frame. Objective Of Winding- Waxing, Combing and carded yarn comparison.

UNIT V

Types of yarns-simple and fancy yarn. Yarn twist- effect and direction. Sewing thread- types and manufacturing details, properties of sewing thread.

Reference:

- 1.fiber science-s.p.mishra and B.K.keshavan.
- 2.technology of textile processing-vol-I-Dr. V.A.shenai
- 3.textile science- s.p.mishra and B.K.keshavan.
- 4.under standing textiles- billie.J.Collier and Phyllis.G.Tortora.

SEMESTER II

PATTERN MAKING AND GRADING

UNIT I

Methods of pattern making - Drafting and flat pattern methods, principles of pattern drafting steps in drafting children's and adult's bodice and sleeve patterns.

UNIT II

HUMAN PROPORTIONS & FIGURE CONSTRUCTIONS

Head - the unit of measurement - average proportion, methods of determining an individual's proportions of the woman's figure - the balance line proportion for the figure - measuring seven and one half heads - how to draw a front view lay figure - how to draw the three quarter view lay figure - how to draw a straight line fashion figure - how to draw a head.

UNIT III

BODY MEASUREMENT

Importance of taking body measurements preparation for measuring. Principles for taking body measurements. Measurements needed for the construction of children, Ladies Men's Garments. Method of taking important body measurements.

PATTERN LAYOUT

Rules in pattern layout. Common methods for layout. Layouts for asymmetrical designs, bold designs, striped, checked and one way design. Economy of fabrics in placing patterns - adjusting the fabric to patterns. Rules for placement of the fabric is not sufficient.

UNIT V

FITTING AND PATTERN ALTERATION

Fitting - Definition - Principles for good fit. Causes for poor fit, checking the fit of garment, solving fitting problems in various garments - basic principles, fitting techniques. Pattern alteration important of altering patterns. Principles for pattern alterations. Common pattern alterations in a blouse. Alteration of pattern for irregular figures.

References

1. Erwin M.D., Practical Dress Design. the Mac Millan Company, New York, 1954.
2. Erwin, M.D. and Kinchen, L.S. Cloths for moderns. The Mac Millan Company, New York, 1970.
3. Chambers G.H. and Moulten V. Clothing / Selection fashion / Figure / Fabric J.B. Lippincott Company, Chicago.
4. Carson B. How you look and dress. McGraw Hill Book Company, London.
5. Bane A. Creative Clothing Constructions. McGraw Hill Book Company, New York.
6. Bane A. Tailoring, McGraw Hill Book Company, London 1968.

JOURNALS

1. Eve's Weekly A Times of India Publication.
2. Femina, A times of India Publication.
3. Women's Era. Viswanath, Delhi Press.
4. Apparel - the Clother's Digest, Bombay.
5. Clothesline, Media and Marketing Association, Bombay.

SEMESTER - II

FASHION ILLUSTRATION-II

- UNIT-I:** Sketching of Women's Wear.
- UNIT-II:** Sketching of Men's and Children's Wear
- UNIT-III:** Developing Sketches Based On Themes.
- UNIT-IV:** Port Folio-Meaning Interpretation.
- UNIT-V:** Sketching Different Types of Garments Based On Occasions

Reference:

1. Ireland . Patrick,J., "Basic Fashion Drawing", Batsford, 1972.
2. Solance.Eunice, " Illustrating Fashion", Harper & Row", 1977.
3. Elisabetta Drudi & Tiziana pac., " Figure Drawing for Fashion Design", The Pepin press, Singapore.
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UNIT IV

MACHINE EMBROIDERY

Ruming, Cording, Satin, Long and short, Granite or Round Stitch, Eyelet, Cut Work, Letters and monograms, fancy stitches on white goods and applique on net.

UNIT V

Creating style through surface trimming- bias trimming, ric-rac, ruffles, smocking, faggoting, drawn thread work, cut work, belts and bows, quilting, crocheting, tatting, hand knitting. Patch work, appliqué work-velvet, plain, printed appliqué, mirror work, sequins, patch work, bead work, shadow work, fabric painting- using fabric colours, glitters, pastes.

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1. Creative Art of Embroidery, Barbara Snook, Humbly Publishing Group Ltd., London 1972.
2. Singer Instruction of Arts Embroidery and Lace Work singer Sewing Matching Company, 1948.
3. India Embroidery - Kamaladevi Chartrophadhya Willey Eastein Ltd., New Delhi 110 016.
4. Phulkari - Ministry of Communication Development and Co-operation.
5. Bhusan J.R. Costumes and Textiles of India, Jaraporavala & Sons

SEMESTER-III
DESIGNING CHILDREN'S CLOTHING

UNIT - I

INFANTS DRESSES

Designing the following dresses:

1. Bib
2. Panties - Plain & Elastic Panty
3. Jabala features
Type I - Sleeveless, Close Neck, with open
Type II - With sleeve, Boat Neck, with open

UNIT - II

Designing and Drafting Baba Suit

1. Baba suit

Type - I

Without open this elastic waist loose knicker with top (Barumadas Model)

Type - II

Knicker with chest piece attach with strap.

UNIT - III

Designing and drafting two types of petticoat

1. Petticoat

Type I - Princess petticoat

Features

- a) 'A' line with double position dart.
- b) Neck and armhole with facing.
- c) No gathers.

Type II - Strapped petticoat

Features:

- a) Body with skirt
- b) Two straps
- c) Skirt pleated or gathers.

UNIT - IV

Designing and drafting two types of Frock

1. Frock

Type I - Yoke Frock

Features

- a) Yoke - Body
- b) Skirt Gathered
- c) Bell sleeve

Type II
Features

- a) Body
- b) Round skirt
- c) No gathers
- d) Puff sleeve
- e) Round collar

UNIT - V

Designing and drafting school uniform for girls & boys

For Girls

1. Pino form

Features : Two strap - belt

2. Blouse

Features :

- a) open collar
- b) Plain sleeve
- c) Neck tie

For Boys

1. shirts

Features:

- a) Side pocket
- b) Pleates
- c) Darts
- d) Loops
- e) Fly opening belt

2. Slack shirt

Features:

- a) open collar
- b) patch pocket
- c) neck tie

Reference:

1. Scientific Garment Quality - By K.M.Hedgo, K.M. Hedgo & Sons, Plot No:43, Somuwar petn Poona- 411 011
2. Easy cutting - By Juvekar Commercial Tailors corporation Pvt.Ltd., 166, Dr.Ambedkar Road, Dadar.
3. Commercial system of cutting - By Juvekar Commercial Tailors corporation Pvt.Ltd., 166, Dr.Ambedkar Road, Dadar.
4. Zerapkar system of cutting - By K.R.. Zerapkar Navneet Publication Ltd., Mumbai/ Ahmedabad/ Nagpur.
5. Dress making - By Smt. Thangam Subramaniam, Bombay Tailoring & Embroidery college, 32 - North part street, Ambature, Madras 600 053.
6. Practical clothing construction Part I and II - By Mary Mathews Thompson & Co. Pvt. Ltd., Madras 600 001.

SEMESTER-III
TEXTILE SCIENCE WEAVING

UNIT - I

Introduction to weaving – looms and their classification

Fabric forming process sequences – preparatory processing required for woven fabric production – winding, warping and sizing – method and machines

UNIT - II

Passage of material through a power loom – important parts of loom and its function primary and secondary motions.

UNIT - III

Principles of shuttleless looms – Projectile – Air Jet – Water Jet-Rapier.

UNIT - IV

Elements of woven design – classification of weaves. Construction of elementary weaves Plain weave and its derivatives. Twill weave and its derivatives. Honey comb and its derivatives. Huck-a-back and crepe weave – modifications.

Bedford cord and its modifications. Welt and piques and its modifications. Mock – leno weave.

UNIT - V

Extra warp and weft figuring – Backed fabric – Pile fabrics – Double cloth and types.

Reference :

1. Weaving mechanism – N.N. Banerjee.
2. Fabric forming – Hasmukari
3. Watson Textile design and colour – Grosick I.J.

III SEMESTER

TEXTILE WET PROCESSING – DYEING

UNIT –I

Typical sequence of process.
Singeing, Desizing, Scouring – objective and methods
Wet processing equipments – Kier, J-Box, Stenter.
Wool carbonizing, Weighting of slik, Heat setting.

UNIT –II

Bleaching – Hypo chlorites, Hydrogen peroxide, sodium chlorite, Equipment
chemicals for bleaching of cotton, viscose, Cotton/viscose Polyester / cotton Evaluation
of bleached fabric – Whiteness, Absorbency, Chemical damage and residues.

Mercerisation – Theory process, Methods and Chemical effects.

UNIT –III

Dyeing – Definition, rules for dye stuff, classification of colorants, Different stages
of Dyeing process. Dyes suitable for different fibers – cotton, viscose, rayon, Linen, Silk,
Wool, rayon and Polyester

Fatness of dyes, Methods of tests for determination of colour fastness.

UNIT –IV

Loose cotton fibre dyeing, Yarn dyeing, Package dyeing cloth dyeing Dyeing of
loose cotton fibre – Machineries – Schmidts Machine, Jagan Berg, Hussong. Dyeing of
Yarn – Hang form – Hussong Machine, Klauder Weldon machine. Package Beamount cop
dyeing machine, Obemaier cheese dyeing machine.

UNIT –V

Fabric dyeing machine – Jigger, Padding mangle, Einch for delicate fabrics. HT
dyeing machine. Jet dyeing machine for blended fabric.

Wet processing for knitted fabrics – Scouring, Bleaching, Clendering,
Shrinkageing, Steaming

Book for Reference

Technology of textile processing Vol III, V, VIII – V.A.Shenai

Hand Book of Textiles – P.V.Vidyasagar

SEMESTER IV
DESIGNING & CONSTRUCTING WOMEN'S APPARELS

UNIT I

1. Constructing Saree Petticoat for the Given Features
2. Constructing a Brasiers for the Given Features.
3. Constructing a Blouse for the Given Features.

UNIT II

1. Constructing a Middy for the Given Features
 - a) 4 Panel
 - b) Waist Band or Elastic
 - c) Side Opening
2. Constructing a Middy Tops for the Given Features
 - a) Front Open
 - b) Bottom Shaped
 - c) Collar Attached
 - d) Fashion full Sleeve with or without cuff

UNIT III

1. Constructing a Maxi for the Given Features
 - a) Back Open
 - b) Trimming Attached Front
 - c) Fashioned Neck
 - d) Gathered Bottom
2. Constructing a Night Dress for the Given Features
 - a) Yoke
 - b) Bell Sleeve
 - c) Gathered Bottom
 - d) Attaching trimmers.

UNIT IV

1. Constructing a Salwar for the Given Features
 - a) Fashioned front body

- b) Back or Front open
- c) Fashioned Neck
- d) Fashioned Sleeve

UNIT V

1. Constructing a Churidar for the Given Features
 - a) Elastic attached waist / tap
 - b) Designed bottom
2. Constructing a Ladies pant for the Given Features
 - a) Wait Bend
 - b) Side open
 - c) Zip attached
 - d) Patch Pocket
3. Constructing a Ladies Shirt for the Given Features
 - a) Half Open
 - b) Collar attached
 - c) Half or Full Sleeve

LEARNING OUTCOMES

1. Learning the sequence of measurement required, sequence of steps involved in Designing and Drafting Patterns and Sequence of Steps involved in Constructing garments.
2. Finding out the suitable cloth required for garments and estimation of cloth required with layout method and direct measurement method.
3. Working out the cost of the garment

References.

1. "Scientific Garment Quality" by K.M. Hedge & Sons, Plot No: 43, Somuwar Peth, Ponna 411 011.
2. "Easy Cutting" by Juvekar Commercial Tailors Corporation Pvt. Ltd., 166, Dr. Ambedkar Road, Dardar.
3. "Commercial System of Cutting" by Juvekar commercial Tailors Corp. Pvt Ltd., 166 Dr. Ambedkar Road, Dardar.
4. "Zerapkar System of cutting" by K.R. Zerapkar Navneet Publ. Ltd., Mumbai/Ahmedabad / Nagpur.

**IV SEMESTER
TEXTILE SCIENCE - KNITTED FABRIC**

UNIT - I

Knitting - Definition, Terms and definition, Differentiate weaving and knitting classification of knitting. Comparison of warp and weft knitting Basic knitting elements.

UNIT - II

Weft knitting - Definition Yarn passage diagram of a circular knitting machine knitting elements - mechanism.

Rib, interlock, purl structure, Ornammentation - derivatives. Pique - Variations Major types of yarns for weft knitting, Defects in weft knitted fabrics.

UNIT - III

Circular rib knitted machine - Elements and functions.
Interlock knitting machine - Elements and functions.
Non-apparel use of knit goods.

UNIT-IV

Jacquard knitting - Needles selection for jacquard and non-jacquard - Pattern making - Pattern wheel, pattern drum, programmed tape.

Calculations - Methods of finding courses per inch, wales per inch and loop length - GSM calculation - Count and gauge relationship - efficiency calculation - tightness factor - Production in length and weights units.

UNIT-V

Warp knitting - Definitions - knitting machines - various in warp knitting - Tricot - Variations in guide bars - Knitting cycle. Rachel - variation in guide bars knitting cycle. Differentiate Tricot from Rachel. Yarns for warp knitting - common faults in fabrics.

Reference:

1. Knitting Technology - D.B. Ajgaonkar
2. Knitting Technology - David J. Spencer
3. Textile Mathematics - J.E. Booth.

SEMESTER IV
APPAREL MARKETING

UNIT I
Meaning and classification of Marketing Functions - Buying, Assembling, Standardization and Grading, Packing and Packaging Storage, Advertising and publicity and Distribution of selling, ISI standards for Apparel.

UNIT II
Production planning and Development, Product line policies and strategies. Production mix, factors influencing changes in product mix.

UNIT III
Advertising and preparation of advertising for apparel marketing. Advertising media used in Apparel Marketing Advertising Department and Advertising Agencies.

UNIT IV
Promotional Programme for Apparel Marketing. Promotional Activities. Communication and Promotion, Promotional Mix, Promotional Strategy. Point of purchase, Sales Promotion objectives, consumer sales promotion programs, publicity marketing Research - Definition scope and importance of Marketing Research.

Unit V
Pricing Policies and strategies for Apparel Products Importance of Price Policies, Function and Types Prices, Authority for Pricing and factors influencing pricing.

References

1. Marketing Management - By Dr. B.K. Chatterjee Jaico, Jaico Publishing House, Bombay 1982.
2. Marketing, Principles and Methods - By Philip C.F. and Duncon D.T. Irwin Publications.
3. Principles of Marketing, By Backman, T.N. Mayard H.K. & Davidson W.R., Ronald Press Company, New York 1970.

Journal

Economic Trends, D.H. Pai Paniker, Federation House, New Delhi.

SEMESTER-V
FASHION MARKETING

UNIT-I:

Birth of fashion – source of design inspiration – Designers, Manufactures Retailers role. Fashion influence and theories of adoption – implication for Merchandising Fashion leaders and Followers.

UNIT – II:

Business of Fashion – Scope of Fashion Business – Forms of business ownership Business growth and expansion.

UNIT – III

Children's / Men's / Women's Apparel industries Organization and the operation of industry Merchandising and Marketing activities – industry trends.

UNIT – IV

Domestic fashion market – Market center History and development of Fashion Types of Retailers of Fashion Merchandise. Fashion advertising Visual merchandising

UNIT – V

Role of Merchandiser – Types of Merchandising Export house – Manufacture buying house. Trade fair participation and other methods of sales promotion.

Reference:

1. Effective Export Marketing of Apparel – Darlie O'Koshy
2. Textiles and Apparel in the Global Economy – Dickerson K.G.

SEMESTER-V
QUALITY CONTROL IN APPAREL PRODUCTION

UNIT - I

Quality definition - Quality and its necessity Introduction - Inspection its importance - functions of inspection - systems of inspection - types of inspection - hundred percent inspection - sampling inspection - comparison of 100% inspection and sampling section.

UNIT - II

Quality standards, SQC - Control charts - Sampling - its importance and use of techniques. ISO 9000, ISO 14000. Total quality management, quality circles.

UNIT - III

Types of control forms - basis production systems - principles for choosing the production system - evaluating systems - Flow process and Grid charts - Basic flow process construction flow process grid for production control - scheduling calculations Graph method schedules production many styles simultaneously production many styles in one line.

UNIT - IV

Quality control in pattern Making, Grading, Marking, Stitching and Production analysis, coordinating department activities - Distribution of tickets and Maintenance of cords - Establishing Merchandising standards. The Quality control of trims and fasteners thread and accessories.

UNIT - V

Tolerance and quality standards for fabrics, Processing Cutting Stitching in garment industry tolerances and quality standard for finished garment - Q.C and inspection agencies - AEPC - Textiles committee - QC for packing -ware housing_ Shipping.

Reference:

1. Apparel Quality Control Pradip Metha
2. Apparel Manufacturing Handbook Jacob Solinger.

MAJOR V

DESIGNING MEN'S APPAREL

UNIT - I

Designing and drafting of shirts

1.S.B.Vest

Features

- a) Collar Attached
- b) Button Attached
- c) No sleeve.

2.Slack Shirt

Features

- a) Open collar
- b) Patch pocket

3."T" Shirt

Features

- a) Front Half Open - Zip Attached

4.Bush Shirt

Features:

- a) Half open
- b) Open collar
- c) Patch pocket
- d) Full sleeve with cuff

UNIT - II

Designing and drafting pleated bell bottom Trousers and narrow bottom.

1.Pleated Trousers

Features

- a) Pleats in front
- b) Darts at back
- c) Side pocket
- d) Fly with buttons or zip
- e) Belt with adjustable strap

2.Bell bottom

Features

- a) Bell bottom

3. Narrow bottom

Features:

- a) Narrow bottom
- b) Pleats
- c) Hip pockets

UNIT - III

Designing and drafting Kurthas

1. Kalidar kurtha

Features

- a) Kali piece
- b) Side pocket
- c) Stand collar
- d) Half open

2. Nehru Kurtha

Features:

- a) Half open
- b) Round neck
- c) With pocket or without pocket
- d) Full sleeve.

UNIT - IV

Designing and drafting Jeans and Pyjama

1. Jeans

Features:

- a) Tight fitting
- b) Jeans cut
- c) Pockets

2. Pyjama

Features

- a) Elastic or tape attached waist
- b) Fly

UNIT - V

Designing and drafting S.B.Coat and Night Dress

1. S.B. Coat

Features:

- a) coat collar
- b) coat sleeves
- c) Pockets

2. Night dress

Features:

- a) Round neck or collar attached
- b) Over lap Front
- c) Tap attached.

Reference:

1. Scientific Garment Quality - By K.M.Hedgo, K.M. Hedgo & Sons, Plot No:43, Somuwar petn Poona- 411 011
2. Easy cutting - By Juvekar Commercial Tailors corporation Pvt.Ltd., 166, Dr.Ambedkar Road, Dadar.

3. Commercial system of cutting - By Juvekar Commercial Tailors corporation Pvt.Ltd., 166, Dr.Ambedkar Road, Dadar.
4. Zerapkar system of cutting - By K.R.. Zerapkar Navneet Publication Ltd., Mumbai/ Ahmedabad/ Nagpur.
5. Dress making - By Smt. Thangam Subramaniam, Bombay Tailoring & Embroidery college, 32 - North part street, Ambature, Madras 600 053.
6. Practical clothing construction Part I and II - By Mary Mathews Thompson & Co. Pvt. Ltd., Madras 600 001.

SEMESTER-V

FASHION APPAREL MERCHANDISING

UNIT – I Definition of fashion, style, classic, fad

Terms related to fashion industry such as Mannequin, Boutique, Collection, Fashion Shows Apparel, Catalogue, Fashion Clinic, Haute couture

Fashion – origin, principle components and stages of fashion cycle.

UNIT – II

Merchandising – Definition, types Fashion merchandising – Principles and techniques.

Merchandiser – role and function

UNIT – III

Visual merchandising technique – Merchandising Ladder – Factors for Route card Preparation – Effective Expediting procedures –sample and types of samples, Brand – Definition. Branding strategies

UNIT – IV

Apparel Merchandising – principle and techniques Apparel Merchandising Interface with production.

UNIT – V

Retailing – Types of Retailers – Advertising –Supply chain management. Pipeline concepts-logistic management. E-Commerce in apparel industry

Reference:

Path for merchandising – a step by step approach – Moore Evelyn.C.

Inside the Fashion Business-J.arnow and K.G. Dickerson

Fashion Merchandising – Laine stone Jean A Semples.

SEMESTER V
COMPUTER APPLICATION IN CLOTHING

UNIT I
Classification of Computers - General and Special Purposes Computers -
Computer Specifications - Computer Components - Organisation of Computer Sections
Computer Peripherals.

Different Types of Computer Memory - Core - Tape - Magnetic Disk - Drum
Input and Output Hardware - Graphical Plotters - Preparation of Input and Output Formats
- Flows Charts - Computer Programming.

UNIT II
Concepts of Computer Integrated Manufacturing (CIM) Computer idea Fabric
Design Computer Aided Garment Manufacturing Computer Aided Production Planning
Production Scheduling. Disposition. Order Entry. Order Control.

UNIT III
Computer Application in Acric Adfect Checking Fabric Laying Cutting Sorting
Labelling

UNIT IV
Computer Application in Pattern Making and Grading Marker Making Duplicating
Marker Efficiency

UNIT V
Computer Application in Sewing Technology Garment Design Computer Aided
Colour Matching

References

1. Computer Technology for Textile - WRD Simty Publications & Co., Atlanta, 1970.
2. Summer School on Computer Application in Tectile ISTE, VITI, Bombay, June 1981.

SEMESTER VI
MANAGEMENT OF APPAREL UNITS

UNIT I:

Classification of Garment units – woven – knit-sports wear Undergarment Small scale industry – Advantages

UNIT II

Garment unit setting – Land – Capital Labour Market Demand Project Preparation Bank Assistance

UNIT – III

Labour study of Labour laws Factory Act Welfare Measure Safety Act.

UNIT – IV

Market – Market study for raw materials and finished products – Local and International

UNIT – V

Exports Policy Advertising Different Media Display trade Fare Exhibition seller Meet.

Reference:

1. How to set up Ready made Garment Export industry Part I, II Industry Estate Manufactures Associations
2. Project Preparation Appraisal and Implementation Prasanna Chandra
3. Industrial Engineering and Management O.P.Khanna
4. Marketing Management Philip Kotler.

**SEMESTER VI
ART PORTFOLIO**

UNIT - I : KIDS PROJECT

Mood board - Colour Palette - Customer Profile - Illustration - Specification

UNIT - II: WOMEN'S PROJECT

Mood board - Colour Palette - Customer Profile - Illustration - Specification

UNIT - III: MEN'S PROJECT

Mood board - Colour Palette - Customer Profile - Illustration - Specification

UNIT - IV

India Theme Textile - Craft - Couture

UNIT - V

Craft Documentation

Reference:

1. The style source book - Judith Millers, Stewart, Tabori and Chang, Newyork

**VI SEMESTER
TEXTILE WET PROCESING - PRINTING AND FINISHING**

UNIT - I

Definition of printing, Different between printing and dyeing Preparation of Printing paste - essential ingredients used in printing paste.

Basis styles of printing - Direct, Discharge, Resist style, Other different styles.

UNIT - II

Methods of printing - Hand screen printing, Automatic screen printing Roller printing Rotary printing, Transfer printing, Stential printing, Block printing, Block printing, tie and Dye printing, Batik printing.

UNIT -III

**Printing of cellulose fabric
Printing of Silk and Wool
Printing of Polyester and Nylon**

UNIT -IV

Finishing – definition – types – of finishing – classification of finishing – advantages of finishing.

**Resin finishing – Wash and wear finish, Water proof finish, Water repellent finish
Antimicrobial finish, Flame retardant finish, Soil release finish.**

UNIT - V

STIFF FINISH, SILICON FINISH, Denim finish, Stone wash, Antipilling, Anti mildaw

Effluent treatment plant – Effluents from different plants – Methods followed

Book for Reference :

- 1. Technology of Textile finishing – V.A.Shenai**
- 2. Technology of Textile Printing – V.A.Shenai**
- 3. Technology of Finishing – Mr.Nalankilli**

SEMESTER VI
HOME TEXTILES

UNIT - I

PRODUCTION TO TEXTILE FURNISHINGS

Definition, Different types of furnishing material Woven and Non - Woven affecting selection of home furnishings. Recent Trends in Home furnishing.

UNIT - II

Floor coverings - Hard floor coverings, Resilient floor coverings. Soft floor coverings and Carpets. Use and Care.

UNIT - III

Doors and Windows - Definition, Different types of Doors and Window, their function.

Decoration Draperies - Choice of fabrics Calculating the amount of material needed making curtains hang well, Methods of finishing draperies at the top. Use of drapery books, tape rings and pins

UNIT - IV

Living room furnishing - sofa covers, wall agree, cushion, cushion covers. Rotary. Boister and Bolster covers.

Definition Different types of bed liners sheets, blanket covers, comfort speed spreads, mattress and mattress covers antipads, pillows and pillow covers, Use

UNIT - V

Kitchen and Table Linens - Definition, Types of Kitchen linens Dish cloth, Hand ridge cover, Fridge handles, Maxi cover, Grinder cover, their Use and Care.

Reference:

1. Soft Furnishing - MAC DONAID.
2. Designing Interior Environment - ALEXANDER N.G.
3. Interior Decoration in India - DONSERKERY K.G.
4. The House Style Book - DEYAN SUDJIC
5. House Hold Manual - ELIZABETH GUNDREY.

SEMESTER VI
TECHINICAL TEXTILES

UNIT - I

Technical Textiles – Introduction

Selection of Fibers – Suitability and property of Higher performance fibers.

UNIT - II

Medical Textiles – Textiles used in various branches of medical – Bio textiles
Surgical textiles.

Fibers used in medical textiles – requirement of fibers in medical textiles.

UNIT - III

Geo textiles – Fibers used in geo textiles – requirement of fibers,

Application of textiles in geo field.

UNIT - IV

Textiles for automotive industry. Suitable fibers for automotive industry

Safety devices- Airbags-Materials used – types of fabric-Finishing process.

belts.

UNIT - V

Protective textiles – Bullet Proof fabrics – fire retarding fabrics – high temper
fabric – UV protective fabrics.

Reference:

1. The design of textiles for Industrial Application – P.W.Harrison
2. Protective Clothing – Bajaj.P. and Sengupta A.K.
3. Textiles: Fiber to fabric – Corbman B.P.
4. Performance of protective Clothing – Johnson.J.S. and Mansdork.S.Z.

SEMESTER VI
ACCOUNTING AND BUSINESS MANAGEMENT

UNIT I

Accounting Concepts - Rules of Accounts - Books of Accounts - Double Entry System - Cash and Accrual basis and liabilities - Provisions and Reserves - Valuation of Stock - Outstanding Income and Income received in advance.

UNIT II

Journal, Ledger and Trial Balance - Financial Statements P & L Account Balance Sheet Accounting for fixed deposits - Accounting for interest and Dividend Payment

UNIT III

Cost Accounting Elements of Cost, Classification of Cost, Accounting for Overheads - Maintenance of Cost Books of Accounts.

UNIT IV

Nature and objectives of Business - Legal forms of Business ownership - Internal Organization Structure of Business - Marketing Management.

UNIT V

Production Management - Quality Control - Inventory Control - Personal Management - Trade Unions - Government control of Business Financial Management - Working Capital Management - Secure of Long term and Short Term finance.

References

1. Introduction to Accountancy - T.S. Glawa
2. Cost Accounting - Jain & Harang
3. Business Organisation & Management - Y.K. Bushan

SEMESTER-V
ENTREPRENEURSHIP DEVELOPMENT

UNIT - I

EDP - Meaning - Analysis - Types and Function - Growth of Entrepreneurs in India Influence of Environment Factors - Helps in EDP - Training and Development of Entrepreneur - Entrepreneur Development Ship Programme. Various opportunities in the Apparel Industries - Manufacturing - Designing - Retailing. Buying a business and Franchising a Business - Services - Wholesaling.

UNIT - II

Financial Entrepreneur - Institutional Finance to Entrepreneur - Role of IFC IDBI, ICICI, IRCI, SIDBI, LIC, SFC, TIC and Commercial Banks in Financing Entrepreneur - Appraisal by Bank for Loans - Approaching Financial Institutions for Loan.

UNIT - III

Promoting an Enterprise. Small scale Industries - Regulation - Governing Small Scale Industry - Incentives and concession for SSI UNITS - Sickness in Small Industries - Causes and Remedies.

UNIT - IV

Function and Development of ENTREPRENEUR - Role of DIC - SIDO - NSIC KVIC - DCOC - ITCO and Entrepreneur Guidance Bureaus Incentives and such Entrepreneur - Problem of Entrepreneur.

UNIT - V

Developing Women and Rural Entrepreneur - Special Incentives - Assistance to Educated Employed - Model Scheme - Export Promotion - Expectation of Entrepreneur

Reference:

Entrepreneurship Development - C.E. GUPTHA AND M.P.SRINIVASAN

SEMESTER - VI

PRACTICAL - COMPUTER APPLICATION IN CLOTHING

Transfer of Design from Samples to Computer & Vice Versa

Various Color Schemes

Computer Aided Garment

Children

Ladies

Men

Computer Control of

Production Planning

Production Scheduling

Pattern Making

Pattern Grading

Label Designing

Computer Color Matching