

**MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI**

UG COURSES – AFFILIATED COLLEGES

**B.Sc. FASHION DESIGNING AND APPAREL MAKING**

(with effect from the academic year 2020 – 2021 onwards)

Se m.  (1 )	Pt. I/ II/ III/I V/V	Sub No.  (3)	Subject status  (4)	Subject Title  (5)	Con – tact Hrs./ Week (6)	L Hrs. / Week (7)	T Hrs. / Week (8)	P Hrs./ Week (9)	C Cre- dites (10)
I	I	1	Language	Tamil/Other Language	6	6	0	0	4
	II	2	Language	Communicative English	6	6	0	0	4
	III	3	Core-I	Sewing Technology	4	4	0	0	4
	III	4	Major Practical - 1	Fundamentals of Apparel Construction-I	2	0	0	2	2
		5	Add on Major (Mandatory)	Professional English for Life Sciences - I	4				4
	III	6	Allied - 1	Fibre To Fabric	4	4	0	0	3
	III	7	Allied Practical -1	Fundamentals of Apparel Construction-II	2	0	0	2	2
	IV	8	Common	Environmental Studies	2	2	0	0	2
				<b>Subtotal</b>	30				25
II	I	9	Language	Tamil/Other Language	6	6	0	0	4
	II	10	Language	English	6	6	0	0	4
	III	11	Core-II	Pattern Making And Grading	4	4	0	0	4
	III	12	Major Practical - II	Design &Construction Of Children's Wear	2	0	0	2	2
	III	13	Add on Major (Mandatory)	Professional English for Life Sciences - II	4				4
	III	14	Allied - II	Historic Costumes And Textiles Of India	4	4	0	0	3
	III	15	Allied Practical -II	Surface Embellishment	2	0	0	2	2
	IV	16	Common	Value Based Education /சமூகஒழுக்கங்களும் பண்பாட்டுவிழுமியங்களும் / Social Harmony	2	2	0	0	2
				<b>Subtotal</b>	30				25

## **Sewing Technology**

### **Unit I**

Sewing Machineries – classification of sewing machines, parts functions of single Needle machine, over lock machine, bar tacking machine, button Hole making machine, button fixing machine, blind stitching Machine. Special attachments, care and maintenance, Common problems and remedies.

### **Unit II**

Stitching mechanism – Needles, bobbin and bobbin case, bobbin winding, loops and loop Spreader, upper and lower threading, auxiliary hooks, throat plates, takeups, tension discs – upper and lower thread tension, stitching auxiliaries, pressure foot and its types.

### **Unit III**

Cutting technology – definition, function, scope, Cutting equipment and tools, vertical reciprocity cutting machine, rotary cutting machine, band knife cutting machine, die cutters. Types of spread and its quality, spreading equipment and tools used for spreading, spreading methods.

### **Unit IV**

Marking methods, positioning marking, types of markers, efficiency of a marker plan, and requirements of marker planning.

Pressing equipments – purpose, pressing equipments and methods – iron, steam press, steam air finisher, steam tunnel, special types – pleating, permanent press.

### **Unit V**

Sewing federal standards for stitch and stitch classification, federal standards for seam and seam classification, fabric sewability, sewing threads – types, essential qualities of sewing thread, Manufacturing process of a cotton and synthetic threads, twisting process.

Reference:

1. The Technology of clothing Manufacture –Harold Carr and Barbara Latham, Blackwell Science(1994)
2. A complete guide for sewing – Coles M Sew, Heinemann Professional Publishing, Singapore.
3. Reader's digest sewing guide, complete Guide to sewing 13<sup>th</sup> Edition, The Reader's digest Association Inc, Pleasant Ville.

**FUNDAMENTALS OF APPAREL CONSTRUCTION -I  
LIST OF EXPERIMENTS**

1. Definition of Apparel Designing – Seams and plackets. Seam – Definition and types – Plackets – Definition and Types –Fasteners
2. Bias – Use of bias, cutting and joining bias strip, bias facing and fittedfacing
3. Designing of collars – Types of collars – Peter pan collar, Partial roll Peter Pan collar, Cape collar, Scalloped collar, Puritan collar, sailor collar, square collar, Chinese collar, full shirt collar, Turtle neck collar and shawlcollar
4. Fullness – Definition and types. Darts – Single and double pointed darts. Tucks – Pin tucks Cross tucks and scallopedtucks
5. Pleats – Knife, Box, Inverted and Pinch pleats, Godets, Gathers andshirring

**REFERENCES:**

1. Mathews. M. Practical clothing constructionPart-I
2. Mathews. M. Practical clothing constructionPart-II
3. Lester.N.Dress Making Skills, Techniques andDesign
4. Erwin M.D, Practical DressDesign
5. Injoo kin &Mykyung Uh, Apparel Making in Fashion Design, Fairchild Publications, New York (2002)
6. Sumathi. G. J. Elements of Fashion and Apparel Design, New Age International (P) Ltd., New Delhi(2002)

**FIBRE TO FABRIC**

**UNIT-I**

Introduction to the field of textiles – Classification of fibres – Natural and Chemical – Primary and secondary characteristics of textile fibres.

**UNIT-II**

Manufacturing process, properties and uses of natural fibres – Cotton, Jute, Linen, Pineapple, Hemp, Hair fibres- Silk & Wool, Man-made fibres- Viscose rayon, Acetate rayon, Nylon, Polyester & Acrylic.

**UNIT-III**

Spinning- Definition, Classification – Chemical & Mechanical spinning- Blending, Opening, Cleaning, Doubling, Carding, Combing, Drawing, Roving & Spinning.

Yarn Classification – Definition, Classification – Simple & Fancy yarns, Sewing thread & its properties.

**UNIT-IV**

Weaves- Weaving mechanism, parts of a loom and basic process, Basic weaves- Plain, Twill, Satin.

Fancy weaves- Pile, Double cloth, Leno, Swivel, Dobby & Jacquard.

**UNIT- V**

Non- wovens- Felting, Fusing, lamination, Netting, Braiding and calico, Tatting and Crocheting.

**References:**

1. textiles – fibre to fabric, corbmann B. P, International students edition, Mc Graw Hill 2. Book company, Singapore 1985.
2. fabric Science 5<sup>th</sup> edition, Joseph J Pretal, Fairchild Publications, Newyork 1990.

**FUNDAMENTALS OF APPAREL CONSTRUCTION-II**

**LIST OF EXPERIMENTS**

1. Types of sleeves – Set-in-sleeve, Plain sleeve, Puff at top and bottom, Bell, Bishop, Circular and Mutton – O –Leg sleeve – Sleeveless styles, Bodies and sleeve combined – Kimono and Raglansleeves
2. Yoke – Definition – Types of yoke – Simple yoke, Partial yoke and Midriffyoke
3. Pockets – Types of Pockets – Patch pockets, Set-in pockets, Pocket set into seam

**REFERENCES:**

1. Mathews. M. Practical clothing construction Part-I
2. Mathews. M. Practical clothing construction Part-II
3. Lester. N. Dress Making Skills, Techniques and Design
4. Erwin M.D, Practical Dress Design
5. Injoo kin & Mykyung Uh, Apparel Making in Fashion Design, Fairchild Publications, New York (2002)
6. Sumathi. G. J. Elements of Fashion and Apparel Design, New Age International (P) Ltd., New Delhi (2002)

**PATTERN MAKING AND GRADING****Unit-I**

Methods of pattern making – Drafting, Draping and Flat pattern methods. Drafting-Principles of drafting. Steps in drafting children's and adults bodice and sleeve patterns. Draping – Preparation of dress form, Draping techniques. Flat pattern techniques-Definition, Pivot, Slash and Spreadmethod.

**Unit-II**

Study of commercial pattern and body measurements. Birth of commercial pattern. Preparation of commercial pattern. Body measurements – Importance and Principles of taking body measurements. Methods of taking body measurements of differentgarments

**Unit-III**

Pattern layout – Rules in pattern layout – Common methods for layout. Layout for asymmetrical designs, Bold designs, Checked and One-way design. Economy of fabrics in placing pattern – Adjusting the fabrics to patterns. Rules for placement of fabric if not sufficient.

**Unit-IV**

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

**Unit-V**

Grading – Definition, Types (Manual & computerized) Manual-Master grade, Basic back, Basic Front, Basic collar and Basic facing grading, Software pattern grading process and principles.

**REFERENCES:**

1. Helen Joseph Armstrong, pattern Making for fashion design, Harper Collins Publishers (1987)
2. Winifred Aldrich, Metric Pattern cutting, Blackwell Science Ltd.England(1994)
3. Winifred Aldrich, Metric Pattern cutting for Men's wear, Blackwell Science Ltd, England (1990)
4. Winifred Aldrich, Metric pattern cutting for children's wear (From 2-14 years), Blackwell Science Ltd., England (1991)
5. Gerry Cooklin, pattern cutting for women's outerwear, Blackwell Sciences Ltd, England (1992)
6. Gerry Cooklin, Pattern Grading for Women's clothes, Blackwell science Ltd.England(1990)
7. Gerry Cooklin, Pattern grading for Men's clothes, Blackwell Science Ltd.,England(1992)

DESIGN & CONSTRUCTION OF CHILDREN'S WEAR

**LIST OF EXPERIMENTS**

I. Infantdresses

Designing and construction of the following dresses:

1. Bib
2. Panties-Plain and elasticpanty
3. Jabalafeatures:

IType

- a) Sleeveless
- b) Closeneck
- c) With open

IIType

- a) WithSleeve
- b) Boatneck
- c) With open

II. Designing and drafting the babasuit:

- 1) Baba suit: Type I : a) With out open with elastic waistloose  
Knicker with top (Berumadas model)  
Type II: b) Knicker with chest piece attached  
With strap
- 2) Cap /Bonnet
- 3) Baby bedset

III. Designing and drafting of 2 types ofpetticoat:

Type I: Princesspetticoat

- Features:
- a) 'A' line with double positiondart
  - b) Neck and armhole withfacing
  - c) Nogathers

Type II: Strapped petticoat

- Features:
- a) Body withskirt
  - b) Twostraps
  - c) Skirt pleated orgathers

IV. Designing and drafting 2 types offrock:

1. Frock:

Type I: Yoke frock

- Features:
- a) Yokebody

- b) Skirtgathered
- c) Bell sleeve

Type II: Umbrellafrock

- Features:
- a) Body
  - b) Roundskirt
  - c) Nogathered
  - d) Puffsleeve

2. Pre-Schooldresses:

- a) Shirt & Shorts(Boys)
- b) Full skirt & Blouse(Girls)

IV. Designing and drafting school uniform for girls&boysForGirls

1. Pino Fore : Features : Two strap –BELT
2. Blouse : Features : a) Open collar
  - b) Plainsleeve
  - c) Necktie

For Boys

1. Shorts: Features
  - a) Sidepocket
  - b) Pleats
  - c) Darts
  - d) Loops
  - e) Flyopening
  - f) Belt
2. Slack shirt : Features : a) Opencollar
  - b) Patchpocket
  - c) Necktie

REFERENCES:

1. K.M.Hedge, Scientific Garments Quality, K.M.Hedge& Sons. Plot.No:43, Somuwar petn,Poona-411011
2. Easy cutting – Commercial system of cutting, Juvekar Commercial Tailors Corporation Pvt. Ltd. 166, Dr. Ambedkar Road, Dadar, Mumbai
3. K.R.Zerapkar, Zerpkar system of cutting, Navneet publication Ltd., Mumbai /Ahmedbad / Nagpur
4. ThangamSuramaniam, Dress making, Bombay Tailoring & Embroidery college, 32-North Pary Street, Ambattur, Madras-600053
5. Mary Mathews, Practical clothing construction partI and II, Thompson &Co.Pvt.Ltd., Madras 60001



**HISTORIC COSTUMES AND TEXTILES OF INDIA****UNIT-I**

Beginning of costume, Growth of Dress out of Painting, Cutting etc...

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

**UNIT-II**

Study of woven textiles of India- Dacca Muslin, Banarasi, Chanderi brocades, Baluchar, Himrus and Amrus, Kashmir shawl, Pochampalli, Silk sarees of Kancheepuram.

**UNIT-III**

Costumes of India- Traditional Costume of different States of India -Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orissa, Bihar, Mizoram, Nagaland, West Bengal.

**UNIT-IV**

Traditional Costume of different States of India - Maharashtra, Rajasthan, Haryana, Himachal Pradesh, Utter Pradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh.

**UNIT-V**

Traditional Embroideries of India- Origin, Embroidery stitches used- Embroidery of Kashmir, Phulkari of Punjab, Gujarat, Kutch and Kathiawar, Embroidery of Rajasthan, Kasuthi of Karnataka, Chicken work of Lucknow, Kantha of Bengal – in all the above – types & colours of fabric/thread.

**Reference:**

1. Indian Costume – M.L Nigam, Lustre Press Pvt Ltd, India(1999)
2. The Costumes & Textiles of India – Jamila Brij Bhushan, DB Taraporevala sons & Co, Bombay(1958)
3. Costumes of India & Pakistan – Das S.N, DB Taraporevala sons & Co, Bombay(1956)

**SURFACE EMBELLISHMENT**

**LIST OF EXPERIMENTS**

1. Hand Embroidery stitches: Running, Back, Stem, Blanket, Lazy daisy, Chain, Couching, Herring bone and Fishbone
2. Feather: Single and double, Rumanian, Seed, Cross, Fly, Stain, Long and short. Fresh knot, Bullion knot and doubleknot
3. Lettering: Alphabets and monograms
4. Drawn thread work and cut, shadow, bead, patch, Sequence, belts, bows & mirror works on fabrics
5. Machine Embroidery stitches: Running, Cording, Satin, Long and short, Granite or Round stitch, eyelet, cut work, letters and monogram
6. Fancy stitches on white goods and appliqué
7. Application of smocking, fringes, gathers on dresses
8. Study of traditional Indian embroidery stitch types
9. Fabric used for traditional Indian embroidery and their historical importance
10. Creating style through surface trimmings: Bias trimmings, Ric-Rac, Ruffles, smoking, faggoting, Drawn thread work, cut work, lace, lace, motif, Belts and bows, quilting, crocheting, tatting and hand knitting – Elements and formation of Knit & Purl
11. Patch work and Applique work: Velvet, plain and printed appliqué, Mirror work, Sequins, Patch work, Bead work, shadow work
12. Fabric painting: Using fabric colors, glitters and pastes

**REFERENCES**

1. Mary Mathews, Practical clothing construction Part I and II
2. Kamaladevi, Indian embroidery
3. Barbara Snook, Creative art of embroidery