



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்  
**MANONMANIAM SUNDARANAR UNIVERSITY**

**SYLLABUS FOR DIPLOMA IN APPAREL AND FASHION DESIGNING  
PROGRAMME OFFERED THROUGH DIRECTORATE OF OCATIONAL  
EDUCATION(COMMUNITY COLLEGES AND VOCATIONAL SKILL  
DEVELOPMENT CENTRES) FROM 2024– 2025**



**DIPLOMA IN APPAREL AND FASHION DESIGNING-5279**

ஆடை வடிவமைத்தல் பட்டயம்

**SCHEME OF EXAMINATION**

Course Code	Title of the Course	Credit	Hours	Passing Minimum
<b>Semester I</b>				
C24AF11/E24AF01	Textile Science	6	90	40/100
C19CE10/E19CE10	Communicative English	6	90	40/100
C24AFP1/E19AFP1	Practical I- Pattern making and Grading	6	90	40/100
C24AFP2/E19AFP2	Practical II-Basic Illustration	4	120	40/100
C24AFPW/E24AFPW	Project/Internship	10	150	40/100
<b>Semester II</b>				
C24AF21/E24AF02	Costing and Merchandising	6	90	40/100
C24AF22/E24AF03	Textile Wet Processing	6	90	40/100
C24AF23/E24AF04	Introduction to Fashion	6	90	40/100
C19LS23/E19LS05	Life Skill	6	90	40/100
C24AFP3/ E19AFP3	Practical II-Fundamentals of Apparel Construction	4	120	40/100

**Eligibility for admission:** Pass in 10<sup>th</sup> Std examination conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamil Nadu or any other equivalent examination.

**Examination:** Passing Minimum for each Course is 40%. Classification will be done on the basis percentage marks of the total marks obtained in all the Courses and as given below:

40% but less than 50%	-	Third class
50% but less than 60%	-	Second class
60% and above	-	First class

**Theory Paper**

Internal Marks-25

External Marks-75

## **SYLLABUS**

### **Semester I**

Course I	:	Textile Science
Course II	:	Communicative English
Course III	:	Practical I- Pattern making and Grading
Course IV	:	Practical II-Basic Illustration
Course V	:	Project/Internship

### **Semester II**

Course VI	:	Costing and Merchandising
Course VII	:	Textile Wet Processing
Course VIII	:	Introduction to Fashion
Course IX	:	Life Skill
Course X	:	Practical II-Fundamentals of Apparel Construction

**\*(Semester Pattern for Community College Only) Program**

### **Objectives**

- The program enables the students to understand the concept of Apparel Manufacturing and Merchandising.
- Make the students understand about the manufacturing process of textiles.
- Enable the students to be self-employed as garment designers. (No subjects are related to this objective hence recommending Retail or boutique management with business plan concepts)

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## SEMESTER I

### COURSE I

#### (C24AF11/E24AF01) Textile Science

#### Objectives

- The learners will be able to understand the properties of textile fibers and fabric.
- Understand the concept of manufacturing process of yarn and fabric.
- Understand various fabric types and its functions.

#### Unit I

**18Hours**

Introduction to the field of textiles –classification of fibers–natural and manmade–primary and secondary characteristics of textile fibers.

#### Unit II

**18Hours**

Manufacturing process, properties and uses of natural fibers – cotton, linen, Jute, sisal, silk, wool fibers, man-made fibers –Viscose rayon, nylon, polyester, acrylic.

#### Unit III

**18Hours**

Spinning –Definition and classification; Chemical and mechanical spinning. Flow chart of ring spinning process – Blow room, carding, combing, drawing, roving, spinning and cone winding. Yarn - Definition and classification- simple and fancy yarns. Yarn count and twist.

#### Unit IV

**18Hours**

Weaving Introduction, Elements and components of a simple loom; Essential weaving operation. Classification of looms and its advantages - Types of shuttle lesslooms–Rapier–Projectile–Airjet–Waterjet.Basic Weaves and its properties– Plainweave, Twill, Satin and Sateen weave structures.

#### Unit V

**18Hours**

Knitting introduction - classification of weft & warp knitting-elements of knitting-comparison between knitting and weaving, knitted fabric and woven fabric. Working process of single and double jersey machines. Type's knitting needles and stitches (knit, tuck, and miss stitch). Types of knitted structures-plain, rib, purl and interlock. Knitted fabric defects– causes and remedies

#### Text Book:-

- Corbman, Bernard. P,(2000). Textiles: Fibre to Fabric, 6th edition. Singapore: International students Edition McGraw Hill Book.
- Hearle, J. W. S. (2004). Principles of textile science. Wood head Publishing.

#### Reference

- Textiles- Fiber to fabric Corbman B.P. International Students edition McGrawHill Book Co.Singapore.
- Textile Mechanisms in Spinning and Weaving Machines, Ganapathy Nagarajan, (2014).
- Woodhead Publishing India in Textiles.Fundamentals of Textiles and their Care- Susheela Dantyagi , Orient Longmann Ltd (1980).
- Knitting Manufacture Technology, New Age International, Chennai. Anbumani, (2006).

## **COURSE II**

### **(C19CE10/E19CE10) Communicative English**

#### **1. Basic Grammar:**

- a. Review of grammar
- b. Remedial study of grammar
- c. Simple sentence
- d. Word passive voice etc.

#### **2. Bubbling Vocabulary:**

- a. Synonyms
- b. Antonyms
- c. One–work Institution

#### **3. Reading and Understanding English**

- a. Comprehension passage
- b. Précis–writing
- c. Developing a story from hints.

#### **4. Writing English**

- a. Writing Business letters.
- b. Paragraph writing
- c. Essay writing
- d. Dialogue writing

#### **5. Speaking English**

- a. Expressions used under different circumstances
- b. Phonetics

#### **Reference**

1. V.H.Baskaran–“English MadeEasy”
2. V.H.Baskaran – “English Composition Made Easy”  
(Shakespeare Institute of English Studies, Chennai)
3. N.Krishnaswamy–“Teaching English Grammar”  
(T.R.Publication, Chennai)
4. “Life Skill” – P.Ravi, S.Prabakar and T.Tamzil Chelvam,  
M.S.University, Tirunelveli.

**COURSE III**  
**(C24AFP1/E24AFP1) Practical I- Pattern making and Grading**

**Objectives**

- The learners will be able to understand the concept of pattern making
- Acquire knowledge about pattern making, positioning, layouts.
- and grading.
- To learn the procedure for obtaining measurements and measurement chart preparation

**Introduction to Pattern making**

**20 Hours**

1. Body measurement –Standardizing body measurements – importance, techniques used.
2. Pattern making –method of pattern making – (Drafting and draping),merits and demerits. Types of paper patterns (Patterns for personal measurements and commercial patterns) Principles of pattern drafting. Pattern details, steps in drafting basic bodice front and back and sleeve. Pattern grading –definition , types manual –master grades ,basic front ,basic back basic sleeve, basic collar and basic grading.
3. Pattern layout- definition, purpose, rules in layout, types of layouts for length wise stripped designs, fabric with bold design, asymmetric designs, one way designs. What can be done if cloth is insufficient, fabric cutting, transferring pattern marking, stay stitching, ease stitching.

**List of Exercises**

**Patterns to be made for following garments**

**70 Hours**

**Men’s Wear**

1. Men’s Pyjama
2. Men’s kurta

**Women’s Wear**

1. Maxi
2. Skirt with decorative

**Kid’s Wear**

1. Yoke frock
2. Jabla
3. Panty

**Text Books:**

1. Halen Josep Armstrong “Pattern Making for Fashion Design” 5 th Edition, Pretence Hall, New Jercey , 2014.
2. Claire Schaeffer, “The Complete Book of Sewing Shortcuts”, Sterling Publishing(NY), 2009.
3. Armstrong, Helen. J. (2011). Patternmaking for Fashion Design. 5th Edition. Pearson Education Pvt. Ltd.
4. Aldrich, Winifred. (2012). Metric pattern cutting for children’s wear and baby wear. 4th Edition. John Wiley and Sons

**Reference:**

- Practical clothing construction -part I and part-II Mary Mathews, cosmic press Chennai (1986)
- Pattern Grading for women's clothing, The technology of sizing –Gerry cooklin ,Blackwell Science Ltd (1990)
- Zarapker system of cutting –zarapker. K. r., Navneet publications Ltd.

## **COURSE IV**

### **(C24AFP2/E24AFP2 ) PRACTICAL-II - Basic illustration**

#### **Objectives**

- The learners will be able to acquire practical skill in drawing fashion figures.
- Understand about developing dress design using colour harmonies

#### **List of Exercises**

- 1 Illustrate garment designs for the Elements of Design
  - a. Line
  - b. Colour
  - c. Texture
  - d. Shape or Form
  - e. Size
- 2 Illustrate garment designs for the Principles of Design
  - a. Types of design
  - b. Balance in dress
  - c. Harmony in dress
  - d. Emphasis in dress
  - e. Proportion in dress
  - f. Rhythm in dress
- 3 Prepare the following Charts
  - a. Prang colour chart
  - b. Value chart
  - c. Intensity chart
- 4 Illustrate the Colour Harmony in Dress Design
  - a. Monochromatic colour harmony
  - b. Analogous colour harmony
  - c. Complimentary colour harmony
  - d. Double Complimentary colour harmony
  - e. Split Complimentary colour harmony
  - f. Triad colour harmony



## 5 Application of colour and Principles of design in dress

- a. Harmony through colour
- b. Emphasis through colour
- c. Proportion through colour
- d. Rhythm through colour
- e. Balance through colour

### **Text Book:-**

- Abling, Bina. (2012). Fashion Sketchbook. 6th Edition. New York: Fairchild Book Publications.
- 2. Davis, Marian. L. (1996). Visual Design in Dress. 3rd Edition. New Jersey: Prentice Hall Inc.
- Gillow, John. & Barnard, Nicholas. (2008). Indian Textiles. Reprint edition. Thames & Hudson Ltd.
- Bhargav, Ritu. (2005). Fashion Illustration and Rendering. 1st Edition. New Delhi: B Jain Publication Pvt. Ltd.

### **Reference Book:-**

- Morris, Bethan. (2006). Fashion Illustrator, New Delhi: Laurence King Publishing.
- Ireland, Patrick John. (1996). Fashion Design Illustration: Men. UK: Pavilion Books.
- Ireland, Patrick John. (2003). Fashion Design Drawing and Presentation. Batsford Publishers.
- Wayne, Childy. (2009). Essential Fashion Illustration: Men. Beverly, Massachusetts: Rockport Publishers.

## **COURSE V**

### **(C24AFPW/E24AFPW) Project/Internship**

- The students can either make a study or can undergo training in any one of the textile industry / garment manufacturing unit / research institute to find out solution for a problem / to obtain hands on skills training in either textile / apparel / fashion areas.
- The practical knowledge obtained through training should be presented in the form of report.

## SEMESTER -II

### COURSE VI

#### (C24AF21/E24AF02) Costing and Merchandising

##### Objective

- The learners will be able to understand about the functions of merchandiser
- Understand the types of approvals and costing.
- Acquire knowledge about programming, scheduling and Export procedures.

##### Unit I

**18Hours**

Merchandising – Functions of Merchandiser – Programming Accessories Arrangement - Approvals – Pattern Approvals – Size set Approvals – Pre Production follow up – Buyer Communication – Reporting – Record maintenance.

##### Unit II

**18Hours**

Estimating, aims of estimating - costing, aims of costing - difference between estimating and costing - types of estimates. Elements of cost - material cost - Labour cost different types of expenses - cost of product - advertisement cost.

##### Unit III

**18Hours**

Material cost -cost of yarn, cost of fabric production, cost of components –SAM, SMV- cutting cost - making and trim cost [CMT cost]. Costing calculations – knitting cost, Sewing thread consumption calculation, fabric consumption calculation, Garment costing calculation.

##### Unit IV

**18Hours**

Programming – Scheduling – Concepts of scheduling -Types of Scheduling – T & A Chart and its importance

##### Unit V

**18Hours**

Export Procedures - Import/Export Documentation –FOB, C&F, CIF–Shipping mark– Certificate of Origin- - Letter of Credit - Bill of Lading – Export License- Packing list – Commercial Invoice.

##### Text Book:-

- Merchandising- Theory, Principles and Practice Grace I. Kunz II Edition, Fairchild Publications, Inc. New York. 2005
- Fashion Marketing by Easey M(Ed), Blackwell Science 1994.
- Jeremy A Rosenau & David Wilson, “Apparel Merchandising: the Line Starts Here”, Fairchild Books, 3rd Edition, 2014.

##### Reference

- Laing, R.M and Webster, J.Stitches and Seams, The Textile Institute, Manchester, 1998.
- Glock R.E. and Kunz G.I., apparel manufacturing; Sewn Product Analysis, Prentice Hall, 1995.
- Mehta P.V. An Introduction to Quality Control for the Apparel Industry, Marcel Dekker, 1992.
- Cooklin F. Garment Technology for Fashion Designers, Blackwell Science, 1997.

## **COURSE -VII**

### **(C24AF22/E24AF03) Textile Wet Processing**

#### **Objectives**

- The learners will be able to understand the procedure of preparatory process.
- Understand about dyeing and printing process and its types .
- Understand the concept of finishing treatment, quality and pollution control.

#### **Unit I**

**18Hours**

Introduction to quality of water used in textile industry-Preparation: Impurities Present in Gray Cotton Fabric – Singeing – Singeing Machine – Desizing – Continuous Enzyme Desizing Process – Scouring – Bleaching – Type of Bleaching – J-Box.

#### **Unit II**

**18Hours**

Dyeing – Classification of Dyes – Direct, Acid, Basic, Reactive, Vat, Disperse, Eco Friendly Dyes, Tie and Dye – Dyeing Defects and remedies. Type of Dyeing Machines –Hank, Beam, Jigger, Winch, Jet, Soft Flow Dyeing Machines, Colour Matching Cabinet,Pantone Colour, Delta Value, Lab Dip.

#### **Unit III**

**18Hours**

Printing: Introduction – Different Types of Printing – Screen, Roller, Rotary-different styles of – Discharge, Resist, and Pigment – Curing. Printing Defects and remedies.

#### **Unit IV**

**18Hours**

Finishing-Classification of finishing- mechanical and chemical finishing- Enzymes,wrinkle free, water repellent, water proof finishing, bio polishing, bio washing, stone wash, acid wash, flame retardant finishes, Mildew finish -Mercerizing – Methods of mercerizing – Damping and Calendaring. Finishing Defects and remedies.

#### **Unit V**

**18Hour**

Quality control and pollution control: Importance-Need of quality control-Importance and need of environment protection-Air & Water pollution.

#### **Text Book:-**

- Trotman E. R., “Dyeing and Chemical Technology of Textile Fibres”, B.I Publishing Pvt. Ltd., New Delhi, 1994, ISBN: 0471809101 | ISBN-13: 9780471809104
- Karmarkar S.R., “Chemical Technology in Pre-treatment processes of Textiles”, Elsevier Publications, Newyork,1999, ISBN: 044450060X | ISBN-13: 9780444500601
- Shenai V. A., “Chemistry of Dyes and Principles of Dyeing”, Sevak Publications, Mumbai, 1995, ISBN: B0007BFE9Y.

**Reference**

- Shenai V.A." Technology of textile processing" Vol. III, V,VII Sevak publications, Bombay 1981.
- Bleaching and Mecerization-E.R.Trotman,Charles griffin co, London 1993.
- Textile printing-Dr.V.A.Shennai,sevak publication Mumbai 1991.
- Textile Finishing-Dr.V.A.Shennai,sevak publication Mumbai 1991

## **COURSE VIII**

### **(C24AF23/E24AF03) Introduction to Fashion**

#### **Objectives**

- The learners will be able to understand the fashion terminologies .
- Acquire knowledge in design elements, silhouette and its types
- Understand about colour theories, values, color harmonies.

#### **Unit I**

**18Hrs**

Terms related to the fashion industry - Design- definition and types – structural and decorative design, requirements of a good structural and decorative design.

#### **Unit II**

**18Hrs**

Elements of design – line, shape or form, colour , size and texture. Principles of design- balance – Rhythm- emphasis, harmony and proportion.

#### **Unit III**

**18Hrs**

Colour- definition, colour theories- prang colour chart, Dimensions of colour- hue, value, and intensity. Standard colour harmonies

#### **Unit IV**

**18Hrs**

Designing dresses for unusual figures becoming and unbecoming for the following figure types. Stout figure, thin figure, slender figure, narrow shoulders, large bust, flat Chest.

#### **Unit V**

**18Hrs**

Types of silhouette – Natural Body, Slim line, Wedge , Hour Glass , Extreme Volume Silhouette

#### **TEXT BOOKS:**

1. Sumathi, G. J. (2007). Elements of Fashion and Apparel Design. Reprint. New Delhi: New Age International Publisher Limited.
2. McKelvey, Kathryn and Munslow, Janine. (2011). Fashion Design: Process, Innovation and Practice. 2nd Edition. John Wiley and Sons.
3. Frings, Gini Stephan. (2007). Fashion from concept to consumer. 9th Edition. Pearson Education.

**References:**

- Fashion – From Concept to Consumer – Gini Stephens Frings, 6 th edition, Prentice Hall (1999).
- Inside the Fashion Business – Bennett, Coleman & Co, Mumbai (1998)\_
- Art and Fashion in Clothing Selection – Harriet T, Mc Jimsey, The Iowa state University Press, Ames,Iowa (1973)
- Sumathi, G.J .2002. Elements of Fashion and Apparel Design. Newage International (P) Ltd Publishers
- Harriet Mc jimsey. 1973. Art and Fashion in Clothing Selection. [Second Edition]. Iowa State University Press, Ames.

**COURSE IX**  
**(C19LS23/E19LS05)Life Skill**

**I Life Coping or adjustment**

- (a) External and internal influence in one "slife
- (b) Process of coping or adjustment
- (c) Coping with physical change and sexuality
- (d) Coping with stress, shyness, fear, anger far live and criticism.

**II Attitude**

- (a) Attitude
- (b) Self acceptance, self-esteem and self actualization
- (c) Positive thinking

**III Problem Solving**

- (a) Goal Setting
- (b) Decision Making
- (c) Time Management and stress Management.

**IV Computers**

- (a) Introduction to Computers
- (b) M.S.Office
- (c) PowerPoint

**V Internet**

- (a) Introduction to internet
- (b) E-mail
- (c) Browsing

**References**

- 1) Life Skill Programme course I&II by Dr.XavierAlphonaMCRDCE Publications. R.K.Mutt Road, Chennai – 28
- 2) ஆளுமண்பு வளர்த்தல் மற்றும் தகவல் தொடர்பு by M.SelvarajCommunity College,Palayamkottai
- 3) "LifeSkill"–P.Ravi,S.Prabahar&T.TamilChelvam,M.S.University, Tirunelveli



**COURSE X**  
**(C24AFP3/E24AFP3)PRACTICAL III**

**FUNDAMENTALS OF APPAREL CONSTRUCTION**

**Objective:**

- The learners will be able to acquire practical skills on sewing.
- Develops samples for different garment details.

**List of Exercises**

**Men's Wear**

1. Men's Pyjama
2. Men's kurta

**Women's Wear**

1. Maxi
2. Skirt with decorative

**Kid's Wear**

1. Yoke frock
2. Jabla
3. Panty

**Text Book:-**

- Mathews, Mary. Practical clothing construction Part -I Basic Sewing Processes. (No Year and Publication)
- Mathews, Mary. Practical clothing construction Part-II Designing, Drafting and Tailoring. (No Year and Publication)
- Zarapkar, K. R. (2011). System of Cutting. India: Navneet Publications.
- Laing, R. M., Webster, J. (1998). Stitches & Seams. India: The Textile Institute.

**REFERENCE:**

- Mary Mathews "Practical Clothing construction" – Part I and II Cosmic Press, Chennai.
- The complete Book of Sewing, Dorling Kindersley Limited, London (1986)
- Sewing and Knitting – A Readers Digest, step by step guide, Readers Digest Pvt. Ltd,
- Injoo Kim and Mykyung Uh, Apparel Making in Fashion Design, Fairchild Publications, New York.
- Sumathi G.J. Elements of Fashion and Apparel Design, New Age International (P) Ltd., New Delhi (2002)