

BU-COMMUNITY COLLEGE CONSULTANCY CENTRE

REVISED SYLLABUS – 2021-22

FOR

DIPLOMA IN GARMENT DESIGNING AND MAKING



BHARATHIAR UNIVERSITY

COIMBATORE-641046

BHARATHIAR UNIVERSITY: COIMBATORE

**DIPLOMA IN GARMENT DESIGNING AND MAKING
(Community College)**

(for the candidates admitted from the academic year 2021-2022 onwards)

Minimum qualification for admission to Diploma Course in Garment Designing and making is a pass in Standard X.

SCHEME OF EXAMINATIONS

S.No	Title of the Course	Credits	Maximum Marks
1	Principles of Pattern Making	4	100
2	Textile Science	4	100
3	Fashion Designing	4	100
4	Entrepreneurship Development & CAD	4	100
5	Practical I - Textiles and Design	4	100
6	Practical II - Designing Children's and Women's Apparel	4	100
7	Practical III Embroidery	4	100
8	Internship / Apprentice / Teaching Practice / Project*	4	100
	Total	32	800

Question paper pattern

Section A: (10 x 2=20 Marks)

Answer ALL the questions

Section B: (5 x 6 = 30 Marks)

Answer ALL the questions either (a) or (b)

Section C: (5 x 10 = 50 Marks)

Answer ALL the questions either (a) or (b)

- Minimum Pass Mark: 40 Marks
- The students should complete the course within 5 years

PAPER I
PRINCIPLES OF PATTERN MAKING

Unit:1		
Body measurements – importance, preparing for measuring, ladies measurements, boys and men’s measurements, Standardizing body measurements – importance, techniques used, Relative length and girth measures of grain in cutting and construction, steps in preparing the fabric for cutting – importance of grain in cutting and construction, steps in preparing the fabric for cutting.		
Unit:2		
Pattern making – methods 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, back sleeve. Draping – preparation of body from, steps in draping a basic bodice front, bodice back and sleeve.		
Unit:3		
Styles created by shifting of blouse darts, adding fullness to the bodice, converting darts to seams and partial yokes and incorporation darts into seams forming yokes. Fitting – standards of a good fit, steps in preparing a blouse for fitting, checking the fit of a blouse, solving fitting problems in a blouse, fitting techniques.		
Unit:4		
Pattern alteration – importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse. Pattern grading – definition, types, manual – master grades, basic front, basic back, basic sleeve, basic collar and basic grading.		
Unit:5		
Pattern layout – definition, purpose, rules in layout, types of layout (methods), Layouts for lengthwise stripe designs, fabric with bold designs, asymmetric designs, one way designs. What can be done if cloth is insufficient, fabric cutting, transferring pattern making, stay stitching and ease stitching.		
Reference Books		
1	Practical Clothing Construction – Part I and II, Mary Mathews, Cosmic Press, Chennai (2007).	
2	Pattern Grading for Women’s Clothes, The Technology of Sewing – Gerry Cooklin, Blackwell Science Ltd (2000).	
3	Zarapker System of Cutting, Zarapker K.R, Navneet Publications Ltd. (2005).	
4	Pattern Making for Fashion Design, Helen Joseph Armstrong, Pearson Education/Prentice Hall, (2010).	
5	Elements of Fashion and Apparel Design, Sumathi. G. J., New Age International P Ltd.(2004).	

PAPER II
TEXTILE SCIENCE

Unit:1	
Introduction to textiles - definition: fibre, yarn, fabric, garment, clothing. Classification of textile fibres -Natural (plant, animal and mineral fibres) and Man-made fibres - synthetic (polyester, nylon, acrylic, polypropylene, elastane, etc.) and regenerated (viscose, bamboo, modal, tencel, acetate, lyocell) fibres. Primary and Secondary properties of textile fibres. Identification of textile fibres - manufacturing process. Applications of natural fibres and manmade fibres.	
Unit:2	
Spinning - definition, classification- chemical and mechanical spinning- short staple spinning.Yarn – definition, types - staple fibre yarn and filament yarn, classification- simple and fancy yarns, sewing thread. Weaving - warp and weft, basic weaves- fancy weaves- process sequences- different weft insertion techniques. Non-wovens - web formation, non-woven making - needle punching, melt blown, spun bond and spun lace methods. Applications of non-wovens	
Unit:3	
Knitting- loop structure- Mechanical elements of weft knitting: needles- sinker-Jacks- Cams- Cylinder- Feeder and Take up – their function and operation. Comparison of warp and weft knitting, Machineries and mechanisms. Warp knitting machines – types.	
Unit:4	
Functional finishes-Sizing, Desizing, Singeing, Mercerizing, Scouring Bleaching, Dyeing-Different types of dyes – methods of dyeing - Tie & Dye. Printing - methods of printing. Aesthetic finishes.	
Unit:5	
Introduction to textile testing and quality control. Humidity - Wet and dry bulb Hygrometer, Moisture regain - moisture content - conditioning oven. Fibre tests, Yarn tests, Knitted Fabric - Loop Length - Course/inch, Wales/inch - GSM, Woven fabric - Ends/inch - Picks/inch - cover factor - GSM. Testing of colour fastness to washing, rubbing, perspiration, dry cleaning, bleaching, light.	
Reference Books	
1	Textiles and Fashion – Materials, Design and Technology, Rose Sinclair (Ed.), Woodhead Publishing Limited and The Textile Institute, (2015).
2	Fibres to Fabrics, Bev Ashford, Authorhouse, (2014).
3	Textiles, Sara.J.Kadolph, Pearson, (2010).
4	Textiles - Fibre to Fabric, Bernard P. Corbman, McGraw Hill, (1983).
5	Knitting Technology, David J. Spencer, Elsevier Science, (2014).
6	Textile Processing and Properties, Tyrone L. Vigo, Elsevier, (1994)
7	A Practical Guide to Textile Testing, Amutha K, Woodhead Publishing India Ltd., (2016).

PAPER III
FASHION DESIGNING

Unit:1		
Terms related to the fashion industry – fashion, style, fad, classic, and collection, chic Custom made, mannequin, fashion, show, trend, forecasting, high fashion, Fashion cycle, haute couture, couture, couturier, fashion director, fashion editor, fine, knock – off avantgarde, bridge, buying house, apparel, fashion merchandising, pre –a – porter, sample.		
Unit:2		
Design – definition types – structural and decorative design, requirements of a good structural and decorative design. Elements of design- line, shape or form, colour, size and texture. Application of structural and decorative design in a dress, selection and application of trimmings and decorations. Fashion accessories – shoes, handbags, hats, ties – different types/ shapes.		
Unit:3		
Principles of design – balance – formal and informal, rhythm – through repetition, radiation and gradation, emphasis, harmony and proportion. Application of principles of design in a dress. Colour – definition, colour theories – prang colour chart and munsellcolour system, Dimensions of colour – hue, value, and intensity. Standard colour harmonies – application in dress design. Colour in principles of design – application of the same in dress design.		
Unit:4		
Designing dresses 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.		
Unit:5		
Wardrobe planning for different age groups, factors influencing wardrobe selection, Fashion and season, Designing dresses for different occasions – business meetings, parties / dinners, evenings / leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, schools – girls and boys		
Reference Books		
1	Fashion Sketch Book – BinaAbling, Fair Child Publications, (2019).	
2	Wardrobe Strategies for Women – Judith Rasband, Bloomsbury Academic, (2001).	
3	Inside the Fashion Business – Jeannette A Jarnow and Kitty G. Dickerson, Merrill, (2010).	
4	Fashion Design – Process, Innovation and Practice, Kathryn McKelvey and Janine Munslow, Wiley, (2011).	
5	The Fashion Design Reference and Specification Book, Jay Caldein and Laura Volpintesta, Rockport Publishers, (2013).	
6	Art and Fashion in Clothing Selection, Harriet Tilden McJimsey, Iowa State University Press, (1973).	

PAPER IV
ENTREPRENEURSHIP DEVELOPMENT & CAD

Unit:1		
Definition of entrepreneur – Functions – Types. Concept of women entrepreneurship – Functions and problems. Recent trends and development in women entrepreneurship.		
Unit:2		
Steps in starting a small scale enterprise. Preparation of Project report – Guidelines. Procedure and formalities for registration. Selection of types of organization – Sole proprietorship - Partnership - Joint stock company. Factors influencing the choice of organization.		
Unit:3		
Institutional finance to entrepreneurs – Commercial Banks . Other financial Institutions – IDBI, IFCI, ICICI, IRBI, LIC, UTI, SIDC, SIDBI, EXIM Bank.		
Unit:4		
CAD in designing-Textile designing – weaving, knitting and printing. Creating embroidery designs - Garment deigning – 2D and 3D forms		
Unit:5		
CAD in pattern making and grading – system description – information flow – process involved in pattern making, process involved in pattern grading.		
Reference Books		
1	Entrepreneurial Development, C.B. Gupta & N.P. Srinivasan, Sultan Chand & Sons, (1992).	
2	Entrepreneurship development, S. Anil Kumar, New Age International, (2008).	
3	Textile Design – Principles, Advances and Applications, Amanda Briggs-Goode and Katherine Townsend (Ed.), Elsevier Science, (2011).	
4	Computer-Aided Pattern Design and Product Development, Alison Beazley and Terry Bond, Wiley, (2009).	

PAPER V
PRACTICAL I

Textiles and Design	
1	Identification of textile fibres- Microscopic, Burning, Solubility Tests
2	Identification of Twist in yarn
3	Identification of Fabric count – Ends per inch (EPI); Picks per inch (PPI)
4	Determination of Fabric Weight – Grams per square meter
5	Drawing Diagrams or Prepare samples for the following a. Application of principles of design in dress design b. Prang colour chart c. Value chart d. Intensity chart e. Standard colour harmonies
6	Drawing diagrams for persons who have unusual problems in dress.
7	Design development for various end uses & application of colour

PAPER VI
PRACTICAL II

Designing Children's and Women's Apparel	
1	A-line petticoat with double pointed dart and other variations.
2	Yoke Frock – with sleeve, with yoke, gathered or umbrella skirt, with or without collar.
3	Sari Petticoat - Six gored Skirt
4	Middi - Four panel
5	Middi Top - Fancy
6	Churidhar
7	Blouse
8	Night Dress

PAPER VII
PRACTICAL III

Embroidery	
1	Prepare Embroidery Design using Running Stitch & Double running stitch.
2	Prepare Embroidery Design using Stem Stitch & Back stitch.
3	Prepare Embroidery Design using Chain Stitch.
4	Prepare Embroidery Design using Lazy Daisy Stitch.
5	Prepare Embroidery Design using Button hole Stitch.
6	Prepare Embroidery Design using Fly Stitch or Feather stitch.
7	Prepare Embroidery Design using Fish-Bone or Herring bone.
8	Prepare Embroidery Design using Knot stitch.
9	Prepare Embroidery Design using Satin Stitch.
10	Prepare Embroidery Design using Zardoshi and stone work.
11	Prepare Machine Embroidery Design using Running and Satin stitch.