BU-COMMUNITY COLLEGE CONSULTANCY CENTRE

REVISED SYLLABUS – 2021-22 FOR DIPLOMA IN APPAREL MERCHANDISING



BHARATHIAR UNIVERSITY
COIMBATORE-641046

BHARATHIAR UNIVERSITY: COIMBATORE

DIPLOMA IN APPAREL MERCHANDISING (Community College)

(for the candidates admitted from the Academic year 2021-22 onwards)

SCHEME OF EXAMINATIONS

S.No	Title of the Course	Credits	Maximum
			Marks
1	Paper I - Textile Science	4	100
2	Paper II - Apparel Merchandising	4	100
3	Paper III - Apparel Quality Assurance	4	100
4	Paper IV - Textile Wet Processing and Testing	4	100
5	Practical I - Pattern Making and Garment Construction	4	100
6	Practical II - Textile Testing	4	100
7	Practical III Computer Aided Pattern Making and	4	100
	Marker Planning		
8	Internship / Apprentice / Teaching Practice / Project*	4	100
	Total	32	800

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Question Paper Pattern

Section A: (10 x 2=20 Marks) Answer ALL the questions

Section B: $(5 \times 6 = 30 \text{ Marks})$

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

Section C: $(5 \times 10 = 50 \text{ Marks})$

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

Duration of examinations for all papers is three hours.

*Minimum Pass Mark: 40 Marks

5 6

PAPER I

		TEXTILE SCIENCE	
Unit:1			
made regener Primary	cation of fibres - syrated (visco y and Sec	textiles - definition: fibre, yarn, fabric, textile fibres -Natural (plant, animal and mineral ynthetic (polyester, nylon, acrylic, polypropylene, ose, bamboo, modal, tencel, acetate, lyocell) fibres condary properties of textile fibres. Identification occess. Applications of natural fibres and manmade	elastane, etc.) and of textile fibres -
77.4.0			T
spinning simple Weaving west in Non-w	g. Yarn – and fancy ng - warp sertion tec vovens - v	tion, classification - chemical and mechanical sp definition, types - staple fibre yarn and filament yarns, sewing thread. and weft, basic weaves- fancy weaves - process s hniques. web formation, non-woven making - needle pur un lace methods. Applications of non-wovens	yarn, classification- equences - different
Unit:3			_
Compa	-	Feeder and Take up – their function and operation warp and west knitting, Machineries and mechani	
Unit:4			
Dyeing	-Different	es-Sizing, Desizing, Singeing, Mercerizing, S types of dyes – methods of dyeing - Tie & Dye. tetic finishes.	
Hygror tests, GSM,	neter, Moi Knitted Fa Woven fab	textile testing and quality control. Humidity - Vesture regain - moisture content - conditioning over abric - Loop Length - Course Length - Course oric - Ends/inch - Picks/inch - cover factor - GSM. In fastness to washing, rubbing, perspiration, dry	n. Fibre tests, Yarn e/inch, Wales/inch -
Refero 1		s and Fashion – Materials, Design and Technol oodhead Publishing Limited and The Textile Institu	C ,
2	Fibres to	Fabrics, Bev Ashford, Authorhouse, (2014).	
3	·	Sara.J.Kadolph, Pearson, (2010).	
4		Fibre to Fabric, Bernard P. Corbman, McGraw H	
5	Knitting '	Technology, David J. Spencer, Elsevier Science, (2014).
			(1001)

Textile Processing and Properties, Tyrone L. Vigo, Elsevier, (1994)

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A Practical Ltd., (2016)	to	Textile	Testing,	Amutha	K,	Woodhead	Publishing	India

PAPER II APPAREL MERCHANDISNG

Unit:1						
Merchano	lising –	Functions of Merchandiser - Raw Materia	als Arrangement -			
Approval	Approvals - Pattern Approvals - Size set Approvals - Pre Production follow up -					
Buyer Co	Buyer Communication – Reporting – Record maintenance.					
Unit:2						
Estimating	g, aims	of estimating - costing, aims of costing -	difference between			
estimating	and co	sting - types of estimates. Elements of cost - mat	terial cost - Labour			
		es of expenses - cost of product - advertisement co				
Unit:3						
Material	cost -co	ost of yarn, cost of fabric production, cost of p	processing width of			
fabric, an	nd design	n affecting cost - lot size, and cost of componen	nts - cutting cost -			
		cost [CMT cost]. Simple problems.				
Programn	ning –	fabric consumption calculation - Scheduling	- Concepts of			
scheduling	g - Type	es of Scheduling.				
Unit:4						
	_	markets - The four Ps - Understanding target				
_		redefining markets – segmentation strategies	s – segmentation			
approach	Alterna	te marketing. Market research.				
Unit:5						
Export F	rocedure	es - Import/Export Documentation - FOB, C&	&F, CIF-—Shipping			
		of Origin- Letter of Credit - Bill of Lading	 Export License- 			
Packing 1	ist - Co	mmercial Invoice.				
Reference	e Book	S				
1 A	pparel l	Merchandising - The Line Starts Here, Jeremy A.1	Rosenau and David			
		, Bloomsbury Academic, (2014).				
		Merchandising, R. Rathinamoorthy and R.	Surjit, Woodhead			
		g India Ltd., (2017).				
		Merchandising – An Integrated Approach,	M. Krishnakumar,			
		Publications, (2010)				
		Merchandising - Principles and Practice, Macmil	lan Education UK,			
	2020).					

PAPER III

APPAREL QUALITY ASSURANCE

Unit:1					
Basic	concepts of Quality - Meaning of quality - Dimensions of Quality - Quality				
Plannin	Planning- Elements of Cost of Quality – Optimum cost performance- Trend analysis-				
Pareto	analysis.				
Unit:2					
_	tion - importance, types. 1. Raw material inspection - Fabric inspection -				
	g threads - Zippers - Buttons-Buckles - Snap fasteners - interlinings. 2. In-				
	ss inspection- Patterns – Spreading – Cutting – Sewing – Pressing /Finishing. 3.				
	Inspection – Garment Specifications – How much to inspect – 100% inspection				
	ot Checking – Arbitrary sampling – statistical sampling - CSP1 – MIL STD 105				
schem	e- AQL -AOQL - Comparability checks.				
Unit:3					
	nentation of quality control program - Seven Tools of Quality - Check sheet				
_	collection sheet]-Histogram-Cause and effect Diagram[or Fishbone diagram] –				
_	Diagram – Stratification Analysis – Scatter diagram – Control Chart.				
Turcto	Dagram Statistication Pharysis Scatter angular Control Chart.				
Unit:4					
Contin	nuous process improvement –Introduction –Input/output process model –Juran's				
	Trilogy – PDCA cycle [Deming wheel]. 5W2H Method – 5S system – Kaizen				
	h marking - Six Sigma Principle - Total Productive Maintenance - Failure				
Mode	Evaluation Analysis.				
Unit:5					
_	Quality Assurance -Definitions - Basic concepts - Characteristic - Elements -				
	bles - Barriers - Benefits. Introduction to quality management system -ISO-				
	2000 Series of Standards – Implementation of ISO 9000 – Advantages of ISO				
Certific	cation.				
D.C.	Darley				
	rence Books				
1	Quality Assurance for Textiles and Apparel (2 nd Edition), Sara J. Kadolph,				
2	Bloomsbury Academic, (2007). Quality Tools Implementation in Apparel Manufacturing, Pradip V. Mehta, et				
	al., Apparel Resources Pvt. Ltd., (2020).				
3	Apparel Quality – A Guide to Evaluating Sewn Products, Janace E. Bubonia,				
	Fairchild Books, (2021).				
4	Quality Characterisation of Apparel, Subrata Das, Woodhead Publishing,				
	(2009).				
	1				
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PAPER IV TEXTILE WET PROCESSING AND TESTING

Unit:1				
	iction to textile wet processing – sizing – desizing – scouring – bleaching –			
	mercerizing – singeing – dyeing – printing – finishing.			
	introduction to colouration of textiles – importance of pretreatment – types of			
pretrea	tment – selection of machinery and dyeing method.			
Unit:2				
Textile	dyes - classification - liquor ratio in dyeing - dyeing of cellulosic textiles -			
dyeing	of wool and silk - dyeing of synthetics - polyester, nylon, acrylic. Garment			
dyeing.				
Textile	printing – methods – styles – print paste formulation – printing – fixing.			
	textile printing – technologies, substrates and dyes - process.			
Unit:3				
Textile				
	finishes. Coated fabrics. Antishrink finish — water repellent finish — soil			
release	finish – flame retardant finish - UV protective finish – antimicrobial finish.			
77.4.4				
Unit:4				
	action to textile testing and quality control. Humidity - Wet and dry bulb			
Hygron	meter, Moisture regain - moisture content - conditioning oven. Fibre tests, Yarn			
tests, l	Knitted Fabric - Loop Length - Course/inch, Wales/inch - GSM, Woven fabric -			
Ends/ir	nch - Picks/inch - cover factor - GSM.			
Unit:5				
Fabric	testing - tensile strength, tearing strength, bursting strength, abrasion, pilling,			
	stiffness, crease resistance / crease recovery.			
	g of colour fastness - washing, rubbing, perspiration, dry cleaning, bleaching,			
light.				
-8				
Refer	ence Books			
1	Fundamentals and Practices in Colouration of Textiles, J. N. Chakraborty,			
1	· ·			
	Woodhead Publishing India, (2015).			
2	Textile Dyeing, N. N. Mahapatra, Woodhead Publishing India, (2018).			
3	Digital Textile Printing, Susan Carden, Bloomsbury Publishing, (2015).			
4	Principles of Textile Finishing, Asim Kumar Roy Choudhury, Elsevier			
	Science, (2017).			
5	A Practical Guide to Textile Testing, Amutha K, Woodhead Publishing India			
	Ltd., (2016).			

PAPER V PRACTICAL I

Pattern Making & Garment Construction				
Preli	Prelimina ries			
1	1 Fabric grain – straight, cross and bias, true bias.			
2	Cutting of fabrics, seam allowance, notches.			
Prep	aration of paper pattern and stitching the garment			
1	T-Shirt			
2	Polo T-Shirt			
3 Raglan sleeve T-Shirt				
4	Shorts			
5	Track suit & Ladies Top			

PAPER VI PRACTICAL II

Text	Textile Testing				
1	Identification of textile fibres- Microscopic, Burning, Solubility Tests.				
2	Determination of yarn count.				
3	Identification of Twist in yarn.				
4	Identification of Fabric count – Ends per inch (EPI); Picks per inch (PPI).				
5	Determination of Fabric Weight – Grams per square meter.				
6	Determination of fabric thickness.				
7	Determination of fabric stiffness				
8	Determination of fabric bursting strength.				
9	Determination of fabric tear strength.				
10	Determination of crease recovery of fabric.				

PAPER VIII PRACTICAL III

Computer aided Pattern making and Marker planning				
1	Pattern making with CAD.			
2	Pattern grading.			
3	Marker Planning.			
4	Calculation of marker efficiency.			
5	Waste reduction by efficient marker planning.			