# PG Diploma in Apparel Merchandising and Management

## **Syllabus**

## **AFFILIATED COLLEGES**

Program Code: \*\*\*

2021 - 2022 onwards



### BHARATHIAR UNIVERSITY

(A State University, Accredited with "A" Grade by NAAC, Ranked 13<sup>th</sup> among Indian Universities by MHRD-NIRF, World Ranking: Times - 801-1000, Shanghai - 901-1000, URAP - 982)

Coimbatore - 641 046, Tamil Nadu, India

Program	Educational Objectives (PEOs)
	Diploma in Apparel Merchandising and Management program describe shments that graduates are expected to attain within five to seven years after on
PEO1	Graduates will have successful professional careers in Apparel Industry
PEO2	Graduates will become successful entrepreneur in Apparel Manufacturing and related fields
PEO3	Graduates will continue to learn and advance their careers through attainment of professional certification and seeking higher education.
PEO4	Graduates will be competent to relate garment industry issues to broader social contexts
PEO5	Graduates will be professional, ethical and demonstrate spirit of excellence and leadership in their successful professional career



Progra	m Specific Outcomes (PSOs)
	ne successful completion of <b>PG Diploma in Apparel Merchandising&amp; ement</b> program, the students are expected to
PSO1	To be able to understand the buyer requirements and expectations in terms of domestic and international market trends and quality standards,
PSO2	Demonstrate the knowledge and understanding of the processes and techniques related to apparel manufacturing
PSO3	Apply domain knowledge and problem solving skills to solve real time problems in apparel production
PSO4	Developnew designs and products for apparel and technical applications
PSO5	Have Entrepreneurship and Life Skills to start their own businesses



Progra	am Outcomes (POs)
On suc	cessful completion of the PG Diploma in Apparel Merchandising& Management
PO1	Students will be able to understand the principles and techniques of the processes of apparel manufacturing
PO2	To be able to identify, analyze the quality and production issues in apparel manufacturing and to design an optimal solution using the tools and techniques
PO3	Demonstrate the knowledge and skills of production process in creating new designs and products
PO4	Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO5	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings and to Communicate effectively with the community and with society
PO6	Able to demonstrate technical, managerial and entrepreneurial skills in setting up an production unit
PO7	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## BHARATHIAR UNIVERSITY: COIMBATORE 641 046 PG Diploma in Apparel Merchandising and Management

(For the students admitted during the academic year 2021 – 22 onwards)

Course	Tide of the Students damine			Hours			imum N	Marks
Code	Title of the Course	Credits	Theory	Practical	Exam	CIA	CEE	Total
		FIF	RST SEM	ESTER				
13A	Core Paper I - Textile Fibres and Yarns	3	3	-	3	30	45	75
13B	Core Paper II - Fabric Science	3	3	-	3	30	45	75
13C	Core Paper III - Textile Coloration and Finishing	3	3	-	3	30	45	75
13D	Core Paper IV - Clothing Construction	3	3	-	3	30	45	75
13E	Core Paper V - Personnel Management and Industrial Relations	3	3	1 5	3	30	45	75
13P	Core Practical I - Fabric Analysis	2		4	3	25	25	50
13Q	Core Practical II - Stitches and Seams	2	1	4	3	25	25	50
17V	Internship Training	2	-	7	-	25	25*	50
	Total	21	15	15	-	<b>2</b> 25	300	525
	- Bay	SEC	OND SE	MESTER			à.	A
23A	Core Paper VI - Apparel Costing and Documentation	3	3		3	30	45	75
23B	Core Paper VII - Apparel Merchandising	3	3		3	30	45	75
23C	Core Paper VIII - Apparel Quality Management	3	3		3	30	45	75
23P	Core Practical III - Textile Testing	2	-	4	3	25	25	50
23Q	Core Practical IV - Pattern Making and Garment Construction	2		5	4	25	25	50
23R	Core Practical V - Computer Aided Pattern Making	2	1001	4	3	25	25	50
27V	Project Work	4	201	8	-	50	50*	100
	Total	19	9	21	-	215	260	475
	Grand Total	40	-	-	-			1000
		ON	LINE CO	DURSES				

CIA – Continuous Internal Assessment

**CEE** – Comprehensive External Examination

Mark Division for Internship and Project

Paper title	Total Marks	CIA	CEE	
			Evaluation	Viva-voce
Internship Training	50	25	15	10
Project / Thesis	100	50	30	20



	13A	ТГ	XTILE EIR	RES AND V	ARNS	L	T	P	C
Core TEXTILE FIBRES AND YARNS  3 Pre-requisite Basic Knowledge of Science Vorsion							<b>_</b>	_	3
Pre-requisite		]	Basic Know	ledge of Scien	nce	Sylla Vers		202 202	
Course Objecti	ves:					•			
<ol> <li>The main object</li> <li>Enable the their charact</li> <li>Describe ab</li> <li>Elaborate a</li> </ol>	students eteristics out yarn	to learn abou	it the various ag process as	nd its types		apparel	indu	stry	and
Expected Cours	se Outco	mes:	and 1	No.					
On the successfu			ourse, studen	nt will be able	to:				
		aracteristics v			9/4			K	[3
2 Differentia	ite thepro	duction of se	mi synthetic	fibres and the	eir characteris	tics			2
				c fibres and th					2
	d the met	thods of yarn		by different sy			e		3
		ses for variou rious end use		ets;ap <mark>ply kno</mark> w	vle <mark>dg</mark> e on yarı	quality		K	3
<b>K1</b> - Remember	; <b>K2</b> - U1	nderstand; K3	- Apply: K	A Analyza: I	75 - Evaluate	<b>K6</b> - Cr	eate		
			11991), 11	4 - Allaryze, I	X3 - L varuate,	IXO CI	Cuic		
		May West	11991), 11	4 - Allaryze, I	X3 - Evaluate,	TTO CI		A	
300.		No. of Contract of	Natural	Fibres			1	2 ho	ur
Unit:1 Introduction to 7 Cotton, flax, silk			Natural Classification	Fibres on – General p	roperties. Brid	ef study	1 abou	t	ur
Introduction to Totton, flax, silk		ol fibres, their	Natural Classification properties a	Fibres on – General p and end uses.	roperties. Brid	ef study	1 abou Spinr	t	
Introduction to Totton, flax, silk  Unit:2  Viscose rayon production to Totton, flax, silk	and woo	ol fibres, their	Natural Classification properties a	Fibres on – General p and end uses.	roperties. Brid Methods of Fi	ef study llament S	1 abou Spinn	t ing.	
Introduction to 7 Cotton, flax, silk Unit:2 Viscose rayon profibres, their proper	and woo	ol fibres, their	Natural Classification properties a Semi Synth ly about Ace	Fibres on – General p and end uses. etic Fibres etate fibre, Mo	roperties. Brid Methods of Fi	ef study llament S	abou Spinn 1	t ning. 2 ho	urs
Introduction to 7 Cotton, flax, silk  Unit:2  Viscose rayon profibres, their properties.	rocess floerties and	ol fibres, their ow. Brief stud I End uses.	Natural Classification properties a Semi Synth ly about Ace Synthetic	Fibres on – General p and end uses.  etic Fibres etate fibre, Mo	roperties. Brid Methods of Fi	ef study lament S nd bamb	abou Spinr 1 2000	t ning.  2 ho  2 ho	urs
Unit:2 Viscose rayon profibres, their proportion. Unit:3 Introduction to F	rocess floerties and	ol fibres, their ow. Brief stud l End uses. and Polymeriz their propert	Natural Classification reproperties a Semi Synth by about Ace Synthetic zation and it	Fibres on – General pand end uses. etic Fibres etate fibre, Mo	roperties. Brid Methods of Findal, Lyocell a study about p	ef study ilament S and bamb	abou Spinr 1 2000	t hing.  2 ho  2 ho  lyeste	urs urs er,
Unit:2 Viscose rayon profibres, their proportion to Figure 1. Introduction to Figure 2. Introduction to Figure 2. Introduction to Figure 3. Introduc	rocess floerties and	ol fibres, their ow. Brief stud l End uses. and Polymeriz their propert	Natural Classification reproperties a Semi Synth ly about Ace Synthetic zation and it ies and End	Fibres on – General pand end uses. etic Fibres etate fibre, Mo	roperties. Brid Methods of Findal, Lyocell a study about p	ef study ilament S and bamb	abou Spinr 1 2000 1 1e, pol	2 ho 2 ho lyestetives	urs er,
Unit:2 Viscose rayon problems, their properties. Unit:3 Introduction to Following and	rocess floerties and Polymer a spandex turization oduction sems. Brie	ol fibres, their ow. Brief stud l End uses. and Polymeriz their propert sequence and f study about	Natural Classification properties a Semi Synth ly about Ace Synthetic zation and it ies and End  Yarn Manu objectives - OE and Cor	Fibres on – General pand end uses.  etic Fibres etate fibre, Mo  c Fibres s types. Brief uses. Texturiz  ufacturing Comparison of	oroperties. Bride Methods of Findal, Lyocell a study about potential process of carded and	ef study silament Sund bambolyamide and its combed	abou Spinr  1 2000  1 2e, pol object  yarn	2 ho 2 ho 2 ho 2 yestetives 2 ho - Ya	urs er, er,
Unit:2 Viscose rayon profibres, their proposed Unit:3 Introduction to Find polyacrylic, and Methods of Text Unit:4 Cotton Yarn Pronumbering syste yarn quality. Me	rocess floerties and Polymer a spandex turization oduction sems. Brie	ol fibres, their ow. Brief stud d End uses.  and Polymeriz their propert continuous sequence and f study about arn - Blended	Natural Classification properties a Semi Synth y about Ace Synthetic zation and it ies and End  Yarn Manu objectives - OE and Cor yarn - Doub	Fibres on – General pand end uses.  etic Fibres etate fibre, Mo  c Fibres s types. Brief uses. Texturiz  ufacturing Comparison of	study about p zation process	ef study silament Sund bambolyamide and its combed	abou Spinr  1 000  1 e, pol object  yarn roper	2 ho 2 ho 2 ho 2 yestetives 2 ho - Ya	ur er,
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Te	kt Books
1	A text book of fibre science and technology, Mishra, S.P,Newage International Publishers,
	2005,
2	Textile yarns, Technology, Structure and Applications, Goswami.B.C., Martindale.J.G,
	Scardino.F.L, Wiley India Pvt, Ltd, 2010.
Re	ference Books
1	Hand book of textile fibres Volume II, Fifth edition, Gordon Cook, J, Wood head publishing
	Ltd,1984.
2	Chemistry of the textiles industry, Carr, C.M,Blackie Academic and Professional, 1995.
3	Man-made fibres, Moncrieff, Wiley, 1957.
4	Spun yarn technology, Eric Oxtoby, Butterworths, 1987.
Re	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	http://textilefashionstudy.com
2	https://fashion2apparel.blogspot.com/2017/07/classification-loom.html
3	https://textilelearner.blogspot.com/
4	https://www.inda.org/about-nonwovens/
	A CONTRACTOR OF THE CONTRACTOR
Co	urse Designed By: Dr R Sheela John and Dr P P Gopalakrishnan.

Mappi	ng wit <mark>h P</mark> i	rog <mark>ra</mark> mm	e Outcor	nes		-01 =	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	M	M
CO2	S	S	M	L	L	M	M
CO3	S	S	M	L	L	M	M
CO4	S	S	M	L	L	M	M
CO5	S	S	M	L	L	M	M

<sup>\*</sup>S-Strong; M-Medium; L-Low

	13B	FABRIC SCIENCE	$\mathbf{L}$	T	P	C
Core	I	FADRIC SCIENCE	3	-	-	3
Pre-requisite		Basic Knowledge of Science	Sylla Vers		202 202	
Course Objec	tives:				ı	
		this course are to:				
		f weaving and knitting processes	11.00			
		cteristics of various woven structures and understand the	diffe	rence	S	
between t		racteristics of weft and warp knitted structures and	l und	lorete	nd t	hair
		parel industry	ı unc	icista	ııα ι	11011
иррпешто	ns m up	Salei maasay				
<b>Expected Cou</b>	rse Out	comes:				
On the success	ful comp	pletion of the course, student will be able to:				
1 Understa	nd the p	rinciples of weaving, its preparatory processes, machines	used	and	1	ζ2
		ructures produced.			1	
	e prin <mark>cip</mark>	<mark>le of knitting process and various elements of we</mark> ft knittii	ng		I	ζ4
machine	: - 4 - 41	all and a single and fine and the single sin				7.0
		characteristics of basic knit fabric structures				<u> </u>
		uard and Fleece structures, flat and warp knitting technique	ues		1	ζ3
5 analyze t		c particulars and various tests done for assessing fabric			I	ζ2
1.1		Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K</b>	ζ6 - C	reate	1	
Temento.	, III	Onderstand, 120 Tippiy, 121 Timary20, 120 Evaluate, 1		reace	-	
Unit:1	Wat .	Preparatory Process for Weaving			12 hc	
						urs
Classification	of fab <mark>ric</mark>	forming methods – Weaving preparatory processes and i	its obj			urs
Warping, Sizir	g and D	forming methods – Weaving preparatory processes and i rawing – in. Passage of material through a plain power lo	oom –	jectiv Prim	es – nary,	
Warping, Sizir secondary and	ig and <mark>D</mark> auxiliar	raw <mark>ing – in. Passage of material through a plain p</mark> ower lo <mark>y motions of a loom. Classification of Looms. Ad</mark> vantage	oom –	jectiv Prim	es – nary,	
Warping, Sizir secondary and	ig and <mark>D</mark> auxiliar	raw <mark>ing – in. Passage of material through a plain p</mark> ower lo	oom –	jectiv Prim	es – nary,	
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Un	it:6	Contemporary Issues	2 hours
Ex	pert lectures,	online seminars – webinars	
		Total Lecture hours	60 hours
Te	xt Books	2 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
1	Knitting Te	chnology, D.B.Ajgaonkar, Universal Publishing Corporation, Muml	bai, 2006.
2	Handbook o	f weaving, SabitAdanur, SRC Press, 2009.	
Re	ference Book	S	
1	Knitting Te	chnology, Second Edition, David Spencer, Wood Head Publishing I	_td.England,
2	Flat Knittin	g,Samuel Razz, Meisenbach Bamberg (1993).	
3		ning Sy <mark>stems, Peter Schwartz, Trevor Rhodes and M</mark> ansour Mohamo Ahm <mark>adabad, 1996.</mark>	ed, Mahajan
Re		Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1		.ac. <mark>in/cour</mark> ses/116/102/116102008/	
2		<mark>.fibre2fas</mark> hion.com/industry-article/808 <mark>7/weft-</mark> knit <mark>ted-fabrics</mark> -and-c	lerivatives
3	https://texte	chdip.wordpress.com/contents/welcome-to-knitting/	
<u>3</u> 4		<mark>el</mark> earner.blogspot.com/2013/03/quality-parameters-of-woven-knitte	

Mappi	ng with	Pro <mark>gran</mark>	<mark>ime Out</mark>	comes	Sil.		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	M	M
CO <sub>2</sub>	S	S	M	L	L	M	M
CO3	S	S	M	L	L	M	M
CO4	S	S	M	L	L	M	M
CO5	S	S	M	L	L	M	M

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code	13C	TEXTILE COLORATION AND FINISHING	L	T	P	C	
Core	•		3	-	•	3	
Pre-requisite		Basic Knowledge of Science Syllabus Version					
Course Objectiv			•				
The main objecti							
		eparatory processes for textile colouration					
		n of dyes and machines for dyeing and printing of vari various types of finishing available for weft knitted structure.					
5. Elaborate at	out the v	arious types of finishing available for well kintled suf	ucture	3			
<b>Expected Cours</b>	e Outcor	mes:					
		tion of the course, student will be able to:					
1 Define the p	rocess ro	oute for various textile materials				K3	
-		of machine and dyes for dyeing process				K2	
	41334	ht method and technique for printing				K3	
4 Able to iden	tify the fa	abrics with various finished effects				K3	
5 Understand	the impor	rtance of ETP and methods of colour fastness assessm	nent			K2	
	87	A SE CO					
K1 - Remember;	<b>K2</b> - Un	derstand; <b>K3</b> - Apply; <b>K4</b> - Anal <mark>yze; K5 - Evaluate</mark> ; <b>F</b>	<b>K6</b> - C	reate			
		A CONTRACTOR OF THE PARTY OF TH					
Water: water hare process sequence	for Wov	Preparatory Processes  ypes - softening process: ion exchange –Lime Soda Procentary and Knitted fabrics and its objectives. Types of single-	ngeing	Prepand	77		
Water: water hard process sequence Desizing. Scouring	for Woving of colo	ypes - softening process: ion exchange –Lime Soda Pr	ngeing	Prepand	arato		
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2	for Woving of colorescent by	ypes - softening process: ion exchange —Lime Soda Programment of the softening process: ion exchange —Lime Soda Programment of the softening and the softening agents. Types of singular process and softening agents. Mercerization  Dyeing	ngeing rogen	Prep and perox	arato xide 12 ho	ry	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle	for Woveng of colorescent by dyes. Dyes of process	ypes - softening process: ion exchange –Lime Soda Proper and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization	rogen rogen	Prepand perox	varato vide 12 ho and	ry	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle Padding mangles	for Woveng of colorescent by dyes. Dyes of process	ypes - softening process: ion exchange –Lime Soda Proper and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization  Dyeing  e bath Auxiliary chemicals. Dyeing of blended textile cessing machines: Cheese, jigger, jet and soft-over-float Dyeing Machines.	rogen rogen	Prepand perox	varato vide 12 ho and	urs	
Desizing. Scouring bleaching – Fluor bleaching – Fluor bleaching – Fluor bleaching – Fluor bleaching – Glassification of working principle Padding mangles betwoof printing – dire	dyes. Dyes of process of process of process. Garmen een dyein ct, resist,	ypes - softening process: ion exchange –Lime Soda Progren and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization  Dyeing  e bath Auxiliary chemicals. Dyeing of blended textile cessing machines: Cheese, jigger, jet and soft-over-float Dyeing Machines.  Printing  ng and Printing. Various methods of printing. Screen productions of the printing of the printing of the printing of the printing. Screen progression of the printing of the printing of the printing of the printing of the printing. Screen progression of the printing of the print	es. Fear	Prepand perox tures chine ation	narato xide 12 ho and s.	urs urs	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle Padding mangles Unit:3 Differences between	dyes. Dyes of process of process of process. Garment ct, resist,	ypes - softening process: ion exchange –Lime Soda Progren and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization  Dyeing  e bath Auxiliary chemicals. Dyeing of blended textile cessing machines: Cheese, jigger, jet and soft-over-float Dyeing Machines.  Printing  ng and Printing. Various methods of printing. Screen productions of the printing of the printing of the printing of the printing. Screen progression of the printing of the printing of the printing of the printing of the printing. Screen progression of the printing of the print	es. Fear	Prepand perox tures chine ation	narato xide 12 ho and s.	urs urs	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2  Classification of working principle Padding mangles  Unit:3  Differences betwoof printing – dire Garment printing  Unit:4	dyes. Dyes of proc. Garmen	ypes - softening process: ion exchange –Lime Soda Progren and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization  Dyeing  e bath Auxiliary chemicals. Dyeing of blended textile cessing machines: Cheese, jigger, jet and soft-over-float Dyeing Machines.  Printing  ng and Printing. Various methods of printing. Screen pages discharge. Print paste ingredients. After treatments for thes.  Finishing	es. Fear prepar	Prepand perox tures chine ation ted te	narato  xide  12 ho and s.  12 ho Extiles	urs urs urs	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle Padding mangles Unit:3 Differences betwoof printing – dire Garment printing Unit:4 Classification of	dyes. Dyes of process of process. Garment ct, resist, technique finishing	ypes - softening process: ion exchange –Lime Soda Progren and Knitted fabrics and its objectives. Types of singured fabrics. Bleaching agents: hypochlorite and hydrightening agents. Mercerization  Dyeing  e bath Auxiliary chemicals. Dyeing of blended textile cessing machines: Cheese, jigger, jet and soft-over-float Dyeing Machines.  Printing  ng and Printing. Various methods of printing. Screen process.  discharge. Print paste ingredients. After treatments forces.	es. Fear prepar	Prepand perox tures chine ation ted te	narato  xide  12 ho and s.  12 ho Extiles	urs urs urs	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle Padding mangles Unit:3 Differences betwoof printing – dire Garment printing Unit:4 Classification of garment washes:	dyes. Dyes of process of process. Garment ct, resist, technique finishing	Printing ng and Printing. Various methods of printing. Screen printing. Various methods of printing. Screen printing. Printing. Printing. Screen printing. Printing. Screen printing. Printing. Printing. Screen printing.	es. Fear prepar	Prepand perox tures chine ation ted ted ted	narato  xide  12 ho and s.  12 ho Extiles	urs es	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2 Classification of working principle Padding mangles Unit:3 Differences betwoof printing – dire Garment printing Unit:4 Classification of garment washes: Unit:5	dyes. Dyes of process of process. Garment ct, resist, technique finishing Stone W	Printing  ng and Printing  ng and Printing  ng and Printing  ng and Printing  Printing  ng and Printing. Various methods of printing. Screen printing. Screen printing. Printing  ng and Printing. Printing. Screen printing. Printing. Screen printing. Printing. Printing. Screen printing. Printing. Printing. Printing. Screen printing. Pri	prepar proprin	Prepand perox tures chine ation ted te	12 ho and s. Style xtiles Types	urs es	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2  Classification of working principle Padding mangles  Unit:3  Differences betwoof printing – dire Garment printing  Unit:4  Classification of garment washes:  Unit:5  Application of er	dyes. Dyes of process of process. Garmen dyein ct, resist, technique finishing Stone W	Printing  ng and Printing  Printing  ng and Printing  ng and Printing  ng and Printing  Printing  ng and Printing  National Printing  Printing  ng and Printing  Raising and Shearing: Compacting. Calendaring. He ash, Bio-Polishing, Acid Wash. Sand Blasting.  Machines and Effluent Treatment.	es. Fear ow made	tures chine ation ted te	narato  xide  12 ho and s.  12 ho Extiles  12 ho Types	urs urs of	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2  Classification of working principle Padding mangles  Unit:3  Differences betwoof printing – dire Garment printing  Unit:4  Classification of garment washes:  Unit:5  Application of er	dyes. Dyes of process of process of process. Garment ct, resist, technique finishing Stone W	Printing and Print	es. Fear ow made	tures chine ation ted te	narato  xide  12 ho and s.  12 ho Extiles  12 ho Types	urs urs es of	
Water: water hard process sequence Desizing. Scouring bleaching – Fluor Unit:2  Classification of working principle Padding mangles  Unit:3  Differences betwoof printing – dire Garment printing  Unit:4  Classification of garment washes:  Unit:5  Application of en Norms. Introduct	dyes. Dyes of process of process of process. Garment ct, resist, technique finishing Stone W	Printing and Print	es. Fear ow made	tures chine ation ted te	narato  xide  12 ho and s.  12 ho Extiles  12 ho Types	urs es of	

	Total Lecture hours 60 hours						
Text	t Books						
1	Dyeing and chemical technology of textile fibres, E.R.Trotman, Charles Griffin & Co, 1964.						
2	Textile Coloration and Finishing, Warren.S.Perkins, Carolina Academic Press, Durham, North						
	Carolina, 1996.						
Refe	erence Books						
1.	Technology of Bleaching and Dyeing of Textile Fibres Vol.1, Part–I,1979, Mahajan Book						
	Publishers, - Chakravarthy RR And Trivedi S.S						
2.	The Bleaching and Dyeing of Cotton Material, Prayag R.S, Weaver's Service Centre, 1983.						
3.	Chemical Processing of Synthetic Fibres and Blends, Datye K.V and Vaidhay A.A John						
	Wiley and Sons, New York, 1982.						
4.	Processing of Manmade Fibres, Usenko V, MIR Publishers, Moscow, 1975.						
5.	Colour for Textiles: A User's Handbook, Wilfred Ingamells, Society of Dyers and Colourists,						
	1993.						
6.	Cellulosics Dyeing, John Shore, Society of Dyers and Colourists, 1995.						
Rela	nted Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]						
1	https://www.britannica.com/topic/textile/Textile-finishing-processes						
2	https://nptel.ac.in/content/storage2/courses/116104045/lecture1.pdf						
3	https://www.textileschool.com/391/textile-printing/						
Cou	rse Designed By: Dr R Sheela John and Mr G Selvakumar						

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	S	S	M	L	L	M	M			
CO <sub>2</sub>	S	S	M	L	L	M	M			
CO3	S	S	M	L	L	M	M			
CO4	S	S	M	L	L	M	M			
CO5	S	S	M	L	L	M	M			

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code	13D	CLOTHING CONSTRUCTION	L	T	P	C			
Core		CEOTIMAG CONSTRUCTION	3	-	-	3			
Pre-requisite		Basic Knowledge of Science	Sylla Versi		2021- 2022				
Course Objec	tives:		'						
_		nis course are to:							
		garment manufacturing processes	_						
		arious types sewing machines and its applications in s							
3. Describe	about the	types of stitches and seams in sewing and types of gar	rment II	nisni	ng				
<b>Expected Cou</b>	rse Outco	mes:							
		etion of the course, student will be able to:							
		uitable spreading and cutting in apparel production			K	2			
	AN - MI - M - M - M - M - M - M - M - M -								
		ent types of stitches and seams in garments			-	[2] [4]			
		ations of different types of folder and attachments in s	ewing		17				
machine	ше аррпе	ations of different types of folder and attachments in s	CWIIIg		K	4			
	nd the iron	ning and types of packaging methods			K	2			
	(4.5	nderstand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;	<b>K6</b> - C	reate					
	-								
Unit:1		Spreading and Cutting		1	2 ho	urs			
Garment manu	facturing p	process flow. Pattern making and grading- Manual an	d CAD	– Ma	rker				
		g process – types of lay and machines used. Fabric Cu							
		es and its application – band knife, straight knife, rour							
		uterized cutting machines. Auxiliary cutting devices –	Drills,	notch	ies.				
Stickering, bur	idiling and	checking.	20 to 400						
Unit:2	V 19	Sewing Machines	9	<i>F</i> 1	2 ho	urs			
	of sewing	machines and applications. Lockstitch machine - func	tion and	_					
		k stitch machines. Over lock machine - Function and							
		mechanism, importance and Its types. Needle mechani	sm. Sti	tching	g				
mechanism. Ba	ar tacking	machine. Picoting Machine.							
TI . 2. 2	100			1	21				
Unit:3	tah and ita	Classification of Stitches	Cong		2 ho				
-		s classification- Federal standard and British standards on Stitch classes and its function – advantages and d							
and its types.	inca stady	on Stren classes and its function—advantages and d	isaa vaii	uges	. Dea	.1113			
the top types.									
Unit:4		Machine Elements		1	2 ho	urs			
-		- Types (edge and curve guide) - Compensating foot -	-		-	ser			
		folders - Slack feeding and elastication - Cutting aids							
and tanes) - Ste	acker. Sim	ple automatics - Button hole - Button sew - Label seg	wers. T	vpes a	and				
		<ul> <li>Needle sizes - Details of stand, table and motor for</li> </ul>							
parts of machin		<ul> <li>Needle sizes - Details of stand, table and motor for</li> </ul>		macl	nines				
parts of machin	ne needles		sewing	macl	nines 0 ho				

methods-Iron and steam presses. Packaging- Types of package forms-Types of packaging materials- Quality specification of packaging materials-Merchandising packaging – Shipment. Packaging - Selection of package design.

materials- Quality specification of packaging materials-Merchandising packaging – Shipment.
Packaging - Selection of package design.
Unit:6 Contemporary Issues 2 hour
Expert lectures, online seminars - webinars
Total Lecture hours 60 hour
Text Books
1 The Technology of Clothing Manufacture, Harold Carr and Barbara Latham, Blackwell
Science Ltd, England, 1994.
2 Introduction to Clothing Manufacture, Gerry Cooklin, Blackwell Science Ltd, England, 1991
Reference Books
Clothing Construction and Wardrobe Planning, Dora.S.Lewis, Mabel Goode Bowers and
Marietta Kettunen, The Macmillan Company: New York (1955).
2 Knitted Clothing Technology, Terry Bracken bury, Blackwell Science Ltd, England, 1992.
Apparel Manufacturing, Ruth. E, Glock and Grace.I.Kunz, Pearson Education, New Delhi, 1995.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://textilelearner.blogspot.com/2015/08/different-types-and-classification-of.html
2 https://clothingindustry.blogspot.com/2017/12/pressing-garment-industry.html
Course Designed By: Dr R Sheela John and Mrs R Ramathilagam

- T	Mappi <mark>ng with Programme Outcomes</mark>									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	S	S	M	L	L	M	M			
CO2	S	S	M	L	L	M	M			
CO3	S	S	M	L	L	M	M			
CO4	S	S	M	L	L	M	M			
CO5	S	S	M	L	L	M	M			

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code 13E		PERSONNEL MANAGEMENT AND	L	T	P	C
Core		INDUSTRIAL RELATIONS	3	-	•	3
Pre-requisite		Knowledge on the functioning of an Industry	Sylla Vers		202 202	
Course Object						
•		this course are to:				
		es and responsibilities of merchandiser				
		anning and programming in execution of an order				
5. Describe a	bout ty	pes of approvals to be given				
Expected Cour	se Out	comes:				
		pletion of the course, student will be able to:				
		acept of Personnel Management			K2	
		of Human Resource Management			K2	
		ncept of wage and salary fixation			K4	
		portance of labour welfare measures			K3	
		nods of prevention and settlements of Industrial disputes			K2	
-		Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	6 Cr	anta	112	
KI - Kemember	1, 112 -	Chiderstand, R3 - Appry, R4 - Anaryze, R3 - Evaluate, R	10 - C1	cate		
Unit:1	-50	Introduction to Personnel Management		(	9 ho	
	efinitio	n – Functions – Objectives – Role of personnel managem	ent in i			411
		sonnel policy. Organizing the personnel function. Leaders				n_
		orale – communication – Control process.	mp – i	VIOUV	auto	.1—
voe satisfaction	una Ivi	Communication Control process.	- 8		1	
Unit:2	-	Human Resource Management	į.	9	9 ho	ur
		gem <mark>ent: Objectives and planning of manpower - J</mark> ob anal				
		<mark>ec</mark> ification. Recruitment and selection. Training and deve	lopmei	nt.		
Performance ap	praisal.	Career planning and job change.		8		
Unit:3	200	Job evaluation			9 ho	
70						
		yee compensation — Wages and salary — Incentives, DA, I	3onus	and v	vage	
differentials. W	age act	s and policies.				
Unit:4		Labour Welfare			9 ho	
	_ Safet	y Engineering – Accidents – Good housekeeping – Welfa	re acts			
		efits – Insurance – Provident Fund – Gratuity – Maternity				
	J					
Unit:5		Industrial Relations		,	7 ho	ur
Industrial Relati	ions: M	leaning – approaches – Significance. Trade Unions – Coll	ective	barg	ainir	ıg.
	mnlove	$\mathcal{C}$			emei	ıt
Relations, Indus		ee discipline. Workers Participation in management. Unio		_		
	strial D	ee discipline. Workers Participation in management. Unic isputes: Forms of disputes – Methods of prevention and s		_		
	strial D	ee discipline. Workers Participation in management. Unio		_		
Industrial dispu	strial D	ee discipline. Workers Participation in management. Unic isputes: Forms of disputes – Methods of prevention and suthorities for settlement.		ents o	of	
Industrial dispu Unit:6	strial Di tes – A	ee discipline. Workers Participation in management. Unic isputes: Forms of disputes – Methods of prevention and suthorities for settlement.  Contemporary Issues		ents o		ur
Industrial dispu Unit:6	strial Di tes – A	ee discipline. Workers Participation in management. Unic isputes: Forms of disputes – Methods of prevention and suthorities for settlement.		ents o	of	ur
Industrial dispu Unit:6	strial Di tes – A	ee discipline. Workers Participation in management. Unic isputes: Forms of disputes – Methods of prevention and suthorities for settlement.  Contemporary Issues	ettleme	ents o	of	

Tex	tt Books
1	Personnel Management and Industrial Relations, P.C. Tripathi, Sultan Chand & Sons, 2013.
2	Personnel Management, Dessler, Prentice-Hall, 1988.
Ref	erence Books
1	Management and Human Resources, Venkataraman C.S and Srivastava B.K, Personnel Tata
1	McGraw Hill, 1991.
2	Industrial Relations, Arun Monappa, Tata McGraw Hill, 1987.
3	Personnel Management and Industrial Relations, Dale Yodder and. Paul D Standohar,
י	Sterling Publishers, 1990.
Rel	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.iedunote.com/perso <mark>nnel-managem</mark> ent
2	http://www.whatishumanresource.com/human-resource-management
Cor	urse Designed By: Dr R Sheela John and Dr V Maheswari

Mapp <mark>ing with</mark> Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7		
CO1	L	M	M	S	S	S	M		
CO2	L	M	M	S	S	S	M		
CO3	L	M	M	S	S	S	M		
CO4	L	M	M	S	S	S	M		
CO5	L	M	M	S	S	S	M		

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code	13P	FABRIC ANALYSIS L	T	P	(
Core Practical	•	-	-	2	2
Pre-requisite		Rasic knowledge of Science	abus sion		
Course Objective					
Γhe main objectiv					
•	· ·	jersey and double jersey weft knitted structures to determ		e stito	ch
	_	Fightness factor, and to determine the cam order, needle o	rder		
requirements 2. To analyze th		striper and auto striper structures to determine the yarn re	anire	mento	C.
and yarn feed		<u> </u>	quire	incirc	٠,
•	_	rd structures to determine the yarn requirements, and to d	eterm	ine th	ıe
cam setting d					
_		structures to determine the EPI, PPI, yarn count, yarn cr	imp a	nd Co	οve
factor, and to	determin	ne drafting order and peg planning			
<u> </u>	0.4				
Expected Course					
		on of the course, student will be able to:			
1 Analyze and fabrics	Identify	the type of fabric structure and fabric particulars for	wove	n	K
	machine	requirements for producing woven fabric structures			K
		the type of fabric structure and fabric particulars for	lznitto		IX.
fabrics	identity	the type of fabric structure and fabric particulars for	KIIILLE	u A	K
	machine	requirements for producing knitted fabric structures	30.	4	K
		for weaving / Knitting			K
V		lerstand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -	Create	100	
Tremento et,		Tippiy, 11 Tharpe, 12 Endade, 12	or cut		
Ex.No.1 Anal	vze the g	riven knitted fabric sample for the following particular	s 2	5 ho	ur
		ty (ii) Loop length (iii) Areal Density (GSM) (iv) Tightne			
		am order (vii) Needle order			
• Sin	gle jerse	y derivative – 3 samples			
• Do	uble jers	ey derivative <mark>s- 3 samples</mark>			
		and Jacquard designs – 2 samples	ı		
Ex.No.2 Anal	yze the g	given woven fabric sample for the following particular and draw the design, draft and peg plan	5 1	8 ho	ur
(i) EPI (ii) PPI (ii	i) Warp a	and Weft crimp and count (iv) Cover Factor (v) GSM	II.		
• Pla	in weave	e and its derivative – 3 samples			
		e and its derivative - 3 samples			
• Sat	in and its	s derivative – 2 samples			
		Contemporary Issues		2 hou	ırs
Expert lectures, or	nline sem				
		Total Lecture hour	$\cdot$ s 4	5 ho	ur
Text Books					

2004

2	Knitting Technology D. B. Ajgaonkar Universal Publishing Corp., Bombay, India, 1998.								
Ref	Reference Books								
1	Design of Woven Fabrics, Blinov.I, Belay.S, MIR Publishers, Moscow, 1988.								
2	Laboratory Practice in Knitting Technology, Kindriarvin, MIR Publications, NewDelhi, 1984.								
Rel	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]								
1	https://fashion2apparel.blogspot.com/2017/01/properties-plain-knit-structures.html								
2	https://textilelearner.blogspot.com/2013/07/theory-and-calculation-of-cover-factor.html								
Co	urse Designed By: Dr R Sheela John and Dr P P Gopalakrishnan								

	Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7			
CO1	S	S	M	L	L	S	M			
CO2	S	S	M	L	L	S	M			
CO3	S	S	M	L	L	S	M			
CO4	S	S	M	L	L	S	M			
CO5	S	S	M	L	L	S	M			

<sup>\*</sup>S-Strong; M-Medium; L-Low

Cou	urse cod	e 13Q	STITCHES AND SEAMS	L	T	P	C
Coı	re Pract	ical		-	-	2	2
Pre	e-requisi	ite	ROCIC K NOWLOGGO OF SCIONCO	Syllabus 20 Version 2			
		jectives:					
The			is course are to:				
1.			o get practiced in Single Needle Lock Stitch machine				
2.			ypes stitches and seams	_ 1!			
3.	Prepar	e components	of a garment such as collars, plackets, pockets and neck	line	S		
Ext	nected (	Course Outcor	nes:				
			tion of the course, student will be able to:				
1			with various types of stitches			K6	
2			with various types of seams			K6	
3		*	ypes of necklines, pockets, and sleeves			K6	
4			types of plackets			K6	
5						K6	
			ypes of collars	<u> </u>		VO	
KI	- Remei	nber; <b>K2</b> - Un	derstand; <b>K3</b> - Apply; <b>K4</b> - A <mark>nalyze; <b>K5</b> - Eval</mark> uate; <b>K</b> 6	b - C	reate		
1	x.No.2	different sew along with sti Developing se felt and piping Draft Pattern	ast five different stitches and seam samples by using machines and furnish the machine threading diagratch density and thread consumption details.  eams of various types - superimposed, bound, lapped, fig.  as, and Construct the Following for the Given	am		7 ho 4 ho	
E <sub>v</sub>	.No.4	Measuremen		7	0	5 ho	11100
	No.5	Neck Lines – Collars – 3 ty				5 ho	
	.No.6	Sleeves $-3$ ty				5 ho	
	.No.7	Plackets – 3 t				4 ho	
	.No.8	Pockets – 3 ty				4 ho	
			57/10/17 10 315/11/2				
			<b>Contemporary Issues</b>			2 ho	urs
Exp	ert lectu	ires, online sei	minars - webinars				
			Total Lecture ho	urs	4	5 ho	urs
Tex	kt Books				D1	1	11
1	Science	es, 1996.	Clothing Manufacture, Harold Carrand Barbara lath				
2			ng Handbook, Jacob Solinger, Van Nostrand Reinhold				
3		el Manufacturi e Hall, 2005.	ng Sewn Product Analysis, Ruth E. Glock and Grace	I. Ku	ınz, F	Pears	on

Ref	ference Books
1	Sewing for the Apparel Industry, Shaeffer Claire, Prentice Hall, New Jersey, 2001.
2	A New Look at Apparel Mechanization, Technical Advisory Committee of AAMA, 1978.
Rel	lated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://sewguide.com/how-to-sew-seams/
2	https://blog.treasurie.com/types-of-necklines/
Co	urse Designed By: Dr R Sheela John and Dr S Jayapriya

	Ma	pping wi	ith Prog	ramme	Outcom	es	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	S	M
CO2	S	S	M	L	L	S	M
CO3	S	S	M	L	L	S	M
CO4	S	S	M	L	L	S	M
CO5	S	S	M	L	L	S	M

\*S-Strong; M-Medium; L-Low



Course code	17V	INTERNSHIP TRAINING	L	T	P	C
Core			-	-	2	2
Pre-requisite		Familiar with the process sequence of the industry chosen	Sylla Vers		2021 2022	

#### **Course Objectives:**

The main objectives of this course are to:

- 1. Impart practical knowledge on the processes in apparel production and related field
- 2. Analyze and interpret the information gathered
- 3. Prepare a report and make a presentation

#### **Expected Course Outcomes:**

On the successful completion of the course, student will be able to:

1	Break-down the process into various activities	K3
2	document the details of the activities	К3
3	prepare the requirements for each process and cost details	K4
4	Develop a suitable method	K6
5	Prepare the reports and presentations in the specified format.	K3

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

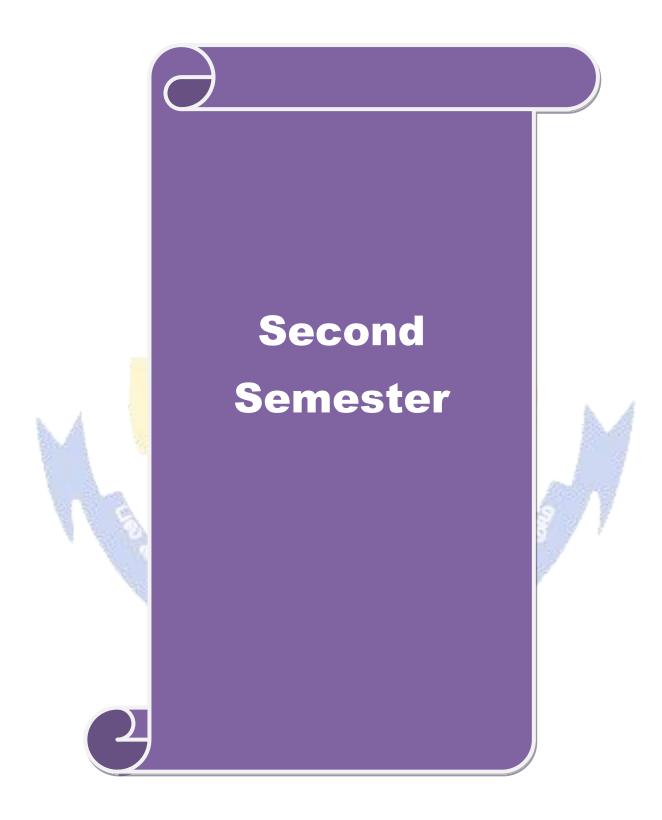
#### **Brief Outline of the Internship Training**

- The students must undergo full day training in Spinning / Weaving / Knitting / Dyeing / Printing / Finishing/ Washing / Sewing and other related areas of apparel production. Visit to industry should covers most of the segments of apparel industry and the time spent in each segment should also be uniform.
- Students can undergo training individually or in a batch of maximum 4 nos. only will be allowed for training.
- Training can be planned for stretch of 3 weeks in mid of semester or 2 days per cycle of 6 days.
- The faculty in charge will give all the formats and guidelines for preparing report.
- The students must record all the required information and observations during training and submit a rough copy within 5 days after completion of training.
- Students must submit the attendance copy and performance card to the faculty in charge, obtained from the respective authority of company with seal and signature. Standard format for the above documents will be given by the department.
- The report format and request letter can be collected by the students from the Department before the start of the training.
- To assess the progress of training, student must present the details in the review meeting

during t	raining period. The students will be assessed based on their Training	ng report, Viva-
Voce ex	amination and the PPT presentation by the Internal and External ex	taminers.
	Total Lecture hours	75 hours
Course Design	ed By: Dr R Sheela John and Dr P P Gopalakrishnan	

	M	apping v	with Pro	gramme	Outcom	nes	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	S	M
CO2	S	S	M	L	L	S	M
CO3	S	S	M	L	L	S	M
CO4	S	S	M	L	L	S	M
CO5	S	S	M	L	L	S	M





Core	23A	APPAREL COSTING AND DOCUMENTATION	L	T	P	C
			3	-	-	3
Pre-requisite		Basics knowledge on garment manufacturing	Sylla		202	
-	•	process	Vers	sion	202	22
Course Object		this course are to:				
•		ous test for yarns, fabrics and garments				
		ious levels of inspection and its procedure in apparel pro	oducti	on		
		ious norms and standards followed in testing and inspec		011		
		<u> </u>				
<b>Expected Cour</b>						
	•	letion of the course, student will be able to:			1	
1 Underst	and the e	elements of cost, costing procedure and INCO terms			K2	
2 Analyse	finished	l fabric cost			K4	
3 Apply a	rriving f	actory cost for various garment styles			K3	
4 Learn al	out the	export procedure and documents to be prepared			K2	
5 gain kno	owle <mark>dge</mark>	of customs procedure			K2	
K1 - Remembe	r; <b>K2 - U</b>	<mark>Jnd</mark> erstand; <b>K3</b> - Apply; <b>K4</b> - A <mark>nalyze; K5 - Eval</mark> uate; <b>F</b>	<b>46</b> - C	reate		
	4					
Unit:1		Costing and its Elements			2 ho	
		- types of costs - Elements of cost. Prime cost - w	ork c	cost -	cos	t o
production - tot	al cost. I	NCO terms and its relationship with costing.		Zh.	.62	
40				200. /	65	
Unit-2					2 ho	AII P
Unit:2	of vari	Process Costing	en Fa		2 ho	
Cost estimation		Process Costing  n, knitted fabric, dyeing, printing and finishing. Wove		bric	Cost	ing
Cost estimation fabric types, ya	arn cons	Process Costing		bric	Cost	ing
Cost estimation fabric types, yapacking, forwar	arn cons	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wove umption, weaving price Cost estimation for cutting, s		bric	Cost	ing
Cost estimation fabric types, ya	arn cons	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wove umption, weaving price Cost estimation for cutting, s		bric ng, c	Cost	ing
Cost estimation fabric types, ya packing, forwar Unit:3	arn cons	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wove umption, weaving price Cost estimation for cutting, s ipping, and insurance.	stitchi	bric ng, c	Cost heck	ing ing <b>ur</b>
Cost estimation fabric types, ya packing, forward Unit:3 Estimation of children's wear	arn considing, shiftened factory r, ladies	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var	titchi	irts,	Cost heck 2 ho	ing ing <b>ur</b> s
Cost estimation fabric types, ya packing, forward Unit:3 Estimation of children's wear	arn considing, shiftened factory r, ladies	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wow umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts,	titchi	irts,	Cost heck 2 ho	ing ing <b>ur</b> s
Cost estimation fabric types, ya packing, forward Unit:3  Estimation of children's wear considered in considered i	arn considing, shiftened factory r, ladies	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products	titchi	bric ng, c	Cost heck 12 ho pajar rs to	our;
Cost estimation fabric types, ya packing, forwar Unit:3 Estimation of children's wear considered in countries.	factory r, ladies osting fo	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation	t-shi	bric ng, c	Cost heck 2 ho pajar rs to	our bour bour
Cost estimation fabric types, ya packing, forwar Unit:3 Estimation of children's wear considered in country Unit:4 Procedure to s	factory r, ladies osting fo	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Expo	t-shirious	lbric ng, c  irts, j factor  factor	Cost heck 12 ho pajar rs to	our mass
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in considered in considered to some Shipment and	factory r, ladies osting fo  Post Si	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var domestic products and international products  Documentation  export firm - Sales contract and its check list. Exponhipment Credit - Payment Terms - Logistic Mana	t-shirious	irts, jfactor	Cost heck 2 ho pajar rs to 12 ho ire	our nas obe
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in considered in considered to some Shipment and Documents – I	factory r, ladies osting fo  Post Si nvoice -	Process Costing  n, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, s ipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Expo	t-shirious  ort Progement	lbric ng, c  lirts, j  factor  cocedunt. N  ange-	Cost heck 2 ho pajar rs to 2 ho ire - leed - Bil	our mass bur Pre fo
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in considered in considered to some Shipment and Documents – I Lading - GR Formation of the considered in consider	factory r, ladies osting fo  Post Si nvoice -	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Exponent Credit - Payment Terms - Logistic Mana Certificate of Origin - L/C, Shipping Bill - Bills of	t-shirious  ort Progement	lbric ng, c  lirts, j  factor  cocedunt. N  ange-	Cost heck 2 ho pajar rs to 2 ho ire - leed - Bil	our mass bur Pre fo
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in considered in considered to some Shipment and Documents — I Lading - GR Fourit:5	factory factory r, ladies osting fo  Post Si nvoice - orm - Pac	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  Cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Exponent Credit - Payment Terms - Logistic Mana Certificate of Origin - L/C, Shipping Bill - Bills of Exing List - Duty Draw Back - Export License - Marine  Customs, Meaning and Types	t-shirious  ort Progement	lbric ng, ci  lirts, j factor  factor  ange- ance j	Cost heck l2 ho pajar rs to l2 ho ire -: leed - Bil Polic	our nas bour Pre fo il o
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in co  Unit:4  Procedure to s Shipment and Documents – I Lading - GR Fo  Unit:5  Customs - Me	factory r, ladies osting fo  tart an o Post Si nvoice - orm - Pac	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown Imption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  Cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Vary domestic products and international products  Documentation  Export firm - Sales contract and its check list. Exposhipment Credit - Payment Terms - Logistic Mana Certificate of Origin - L/C, Shipping Bill - Bills of Exing List - Duty Draw Back - Export License - Marine  Customs, Meaning and Types  Definition, Types. Exercise and Customs, Clearance of	t-shirious  ort Progement Exch	irts, jfactor	Cost heck l2 ho pajar rs to l2 ho ire -: leed - Bil Polic	our nas Pre fo
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in co  Unit:4  Procedure to s Shipment and Documents – I Lading - GR Fo  Unit:5  Customs - Me	factory r, ladies osting fo  tart an o Post Si nvoice - orm - Pac	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown umption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  Cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Exponent Credit - Payment Terms - Logistic Mana Certificate of Origin - L/C, Shipping Bill - Bills of Exing List - Duty Draw Back - Export License - Marine  Customs, Meaning and Types	t-shirious  ort Progement Exch	irts, jfactor	Cost heck l2 ho pajar rs to l2 ho ire -: leed - Bil Polic	our nas Pre fo
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Cost estimation fabric types, ya packing, forward packing, forward Unit:3  Estimation of children's wear considered in considere	factory r, ladies osting fo  Post Si nvoice - orm - Pac  aning, E	Process Costing  In, knitted fabric, dyeing, printing and finishing. Woven umption, weaving price Cost estimation for cutting, stipping, and insurance.  Product Costing  Cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  Export firm - Sales contract and its check list. Exponsipment Credit - Payment Terms - Logistic Mana - Certificate of Origin - L/C, Shipping Bill - Bills of Exing List - Duty Draw Back - Export License - Marine  Customs, Meaning and Types  Definition, Types. Exercise and Customs, Clearance of Port Procedures - Claiming Duty Draw Backs and Othe Contemporary Issues	t-shirious  ort Progement Exch	irts, jfactor	Cost heck l2 ho pajar rs to l2 ho ire -: leed - Bil Polic	our  nas  be foo
Cost estimation fabric types, ya packing, forwar Unit:3  Estimation of children's wear considered in	factory r, ladies osting fo  Post Si nvoice - orm - Pac  aning, E	Process Costing  In, knitted fabric, dyeing, printing and finishing. Wown Imption, weaving price Cost estimation for cutting, sipping, and insurance.  Product Costing  cost for Woven and Knitted - vest, briefs , shorts, wear, Woven Shirt, Woven Tops and Bottom. Var r domestic products and international products  Documentation  export firm - Sales contract and its check list. Exponiument Credit - Payment Terms - Logistic Mana Certificate of Origin - L/C, Shipping Bill - Bills of Exing List - Duty Draw Back - Export License - Marine  Customs, Meaning and Types  Definition, Types. Exercise and Customs, Clearance of Port Procedures - Claiming Duty Draw Backs and Othe	t-shirious  ort Progement Exch	irts, jfactor	Cost heck l2 ho pajar rs to l2 ho lre -: leed - Bil Polic Carg	our mas be be for

Text B	ooks
1  I	Apparel Costing, A functional Approach – Krishnakumar, M, Abishek Publications,
	Chandigargh, 2012
2 E	Evaluation of Apparel Quality, Anitha A. Stamper, Fairchild Fashion Group, 1991.
Refere	ence Book
1 A	Apparel Merchandising, Jeremy Rosenau, Fairchild Publications, 2001.
1	
Relate	d Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 h	nttps://www.incotermsexplained.com/the-incoterms-rules/the-eleven-rules-in-brief/cost-
$\begin{array}{ c c c c c } 1 & f \end{array}$	reight/
2 h	https://www.onlineclothingstudy.com/2015/10/product-and-process-costing-in-garment.html
<b>'</b>	
Course	e <b>Designed By:</b> Dr R Sheela John and Mrs N Sangeetha

	M	apping v	with Pro	gramme	Outcom	ies	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	S	M
CO2	S	S	M	L	L	S	M
CO3	S	S	M	L	L	S	M
CO4	S	S	M	L	L	S	M
CO5	S	S	M	L	L	S	M

<sup>\*</sup>S-Strong; M-Medium; L-Low

	23B	APPAREL MERCHANDISING	L	T	P	C
Core			3	-	-	3
Pre-requisite		Basic knowledge on the functioning of an apparel industry	Sylla Ver		202 202	
Course Objectiv						
The main objective						
		and responsibilities of merchandiser				
		ning and programming in execution of an order of approvals to be given				
3. Describe abo	out types	of approvals to be given				
<b>Expected Cours</b>	e Outcor	mes:				
		tion of the course, student will be able to:				
1 Understand	the func	ctions of me <mark>rchandiser</mark>			K2	
2 Apply the k	nowledg	ge gained in planning and programming			K3	
		f approval and inspection procedures			K4	
<u> </u>	• •	documents to be prepared			K2	
	71	s on product promotion			K3	
		derstand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b>	<b>6</b> - C	reate		
	À					
Unit:1	1	Introduction to Merchandising		12	2 ho	ıır
Merchandising: I	ntroducti	on Maning Arrayal Marshardising Consents of S	7. 5			uli
	iiii o a a c c	ion, Meaning- Apparel Merchandising – Concepts of "S	Six R	ights''	_	uı i
		ion, Meaning- Apparel Merchandisin <mark>g                                    </mark>				
Organisation stru	cture of a	an appa <mark>rel indus</mark> try – Class <mark>ificati</mark> on <mark>of Exporters - R</mark> atin	ng or	Gradi	ng c	
Organisation struexport houses – C	<mark>cture of</mark> a Classifica		ng or nandi	Gradi sing –	ng c	
Organisation struexport houses — Company profile Essential requisit	cture of a Classifica and its c es of a go	an apparel industry — Classification of Exporters - Ratination of buyers — Export merchandising and retail merchantents. Types of merchandiser - Functions of a merchandiser — Vendor sourcing, evaluation and de	ng or nandi andis evelo	Gradi sing – er –	ng o	
Organisation struexport houses – Company profile Essential requisit	cture of a Classifica and its c es of a go	an apparel industry — Classification of Exporters - Ratination of buyers — Export merchandising and retail merchandiser. Types of merchandiser - Functions of a merchandiser.	ng or nandi andis evelo	Gradi sing – er –	ng o	
Organisation struexport houses — Company profile Essential requisit Global sourcing -	cture of a Classifica and its c es of a go	an apparel industry – Classification of Exporters - Ratination of buyers – Export merchandising and retail merchantents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonstration by buyers – Reasons for vendor nomination	ng or nandi andis evelo	Gradi sing – er – pmen	ng o	f
Organisation struexport houses — Company profile Essential requisit Global sourcing - Unit:2	cture of a Classifica and its c es of a go - Vendor	an apparel industry – Classification of Exporters - Ratination of buyers – Export merchandising and retail merchantered to the contents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonstration by buyers – Reasons for vendor nomination by	ng or nandi andis evelo on.	Gradi sing – er – pmen	ng o	f
Organisation struexport houses — Company profile Essential requisit Global sourcing — Unit:2	cture of a Classifica and its c es of a go - Vendor pparel in	an apparel industry – Classification of Exporters - Ratin ation of buyers – Export merchandising and retail merch contents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination.  Planning and Programming dustry – Buyer sourcing and communication – Enquiry	ng or nandi andis evelo on.	Gradising – er – pmen  12	ng o	f
Organisation struexport houses — Company profile Essential requisit Global sourcing — Unit:2  Process flow in a confirmation — or	cture of a Classifica and its c es of a ge Vendor  pparel in der revie	an apparel industry – Classification of Exporters - Ratination of buyers – Export merchandising and retail merchandistry. Types of merchandiser - Functions of a merchandod merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination.  Planning and Programming  dustry – Buyer sourcing and communication – Enquiry ew and its importance – Planning and programming: Ma	ng or nandi andis evelo on.	Gradi sing – er – pmen  12 der plann	ng o	f
Organisation struexport houses — Company profile Essential requisit Global sourcing — Unit:2  Process flow in a confirmation — or Scheduling or row	cture of a Classifica and its c es of a go Vendor  pparel in rder revie ute card -	an apparel industry – Classification of Exporters - Ratin ation of buyers – Export merchandising and retail merch contents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination by buyers – Reasons for vendor nomination by buyers – Reasons for vendor nomination dustry – Buyer sourcing and communication – Enquiry ew and its importance – Planning and programming: Maratter – Factors for route card - programming for yarn, knitting	ng or nandi andis evelo on.	Gradising – er – pmen  12 der plann eing,	ng o	f
Organisation strue export houses — Company profile Essential requisit Global sourcing — Unit:2  Process flow in a confirmation — or Scheduling or roustitching, samplir	cture of a Classifica and its c es of a go - Vendor  pparel in der revie ute card - ng, access	an apparel industry – Classification of Exporters - Ratination of buyers – Export merchandising and retail merchandistry. Types of merchandiser - Functions of a merchandod merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination.  Planning and Programming  dustry – Buyer sourcing and communication – Enquiry ew and its importance – Planning and programming: Ma	ng or nandi andis evelo on.	Gradising – er – pmen  12 der plann eing,	ng o	f
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Organisation struexport houses — Company profile Essential requisit Global sourcing — Unit:2  Process flow in a confirmation — or Scheduling or roustitching, samplir expedition of same	cture of a Classifica and its c es of a go - Vendor  pparel in der revie ute card - ng, access	an apparel industry – Classification of Exporters - Ratin ation of buyers – Export merchandising and retail merch contents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination by buyers – Reasons for vendor nomination by buyers – Reasons for vendor nomination dustry – Buyer sourcing and communication – Enquiry ew and its importance – Planning and programming: Maratter – Factors for route card - programming for yarn, knitting	ng or nandi andis evelo on.	Gradising – er – pmen  tder plann eing, les –	ng o	urs
Organisation strue export houses — Company profile Essential requisit Global sourcing — Unit:2  Process flow in a confirmation — or Scheduling or roustitching, samplir expedition of sam  Unit:3	cture of a Classifica and its c es of a go - Vendor  pparel in rder revie ate card - ag, access aples	an apparel industry – Classification of Exporters - Ratin ation of buyers – Export merchandising and retail merch contents. Types of merchandiser - Functions of a merchandiser – Vendor sourcing, evaluation and demonination by buyers – Reasons for vendor nomination.  Planning and Programming  dustry – Buyer sourcing and communication – Enquiry ew and its importance – Planning and programming: Marators for route card - programming for yarn, knitting sories – Samples: Meaning and importance – Types of some – Samples: Meaning and Inspection	ng or nandi andis evelo on. y – Or aster g, dy samp	Gradising – er – pmen  tder plann eing, les –	ng c t –  2 ho  2 ho  2 ho	urs
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Retail management. Export associations – Apparel Export Promotion Council – Journals and magazines related to apparel and textiles –Trade shows and Fairs – Participation in trade shows – Advantages of trade shows and fairs - Apparel and Textile Trade shows and fairs in India.

Un	it:6 Contemporary Issues	2 hours
Exp	pert lectures, online seminars - webinars	
	Total Lecture hours	60 hours
Tex	at Books	
1	Apparel Merchandising, Jerry A and Rosenau, Fairchild Publications, London, 20	10
2	Apparel Merchandising, Robin Mathew, Book Enclave Publishers, Jaipur, 2008	
Ref	Ference Books	
1	Apparel Merchandising, An integrated Approach, Krishnakumar, M, Abishek Pub 2010.	olications,
2	Fashion Merchandising, Elian Stone, Gregg Division, McGraw-Hill, 1990	
Rel	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://garmentsmerchandising.com/roles-of-a-merchandiser-in-garment-industry/	/
2	http://images.pcmac.org/SiSFiles/Schools/TX/CentralHeights/CentralHeightsHighocumentsCategories/Documents/Ch_10.pdf	n/Uploads/D
3	https://www.businessmanagementideas.com/marketing-management/personal-selling/personal-selling/20228	1
7	selling/personal-selling/20228	M

Course Designed By: Dr R Sheela John and Dr S Jayapriya
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200 5	Mapp <mark>ing with Programme Outcomes</mark>											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	M	L	L	S	M					
CO2	S	S	M	L	L	S	M					
CO3	S	S	M	L	L	S	M					
CO4	S	S	M	L	L	S	M					
CO5	S	S	M	L	L	S	M					

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code	23C	APPAREL QUALITY MANAGEMENT	L	T	P	C	
Core		ATTAKEL QUALITT MANAGEMENT	3	-	-	3	
Pre-requisite		Basic knowledge on the fiber, yarn, and fabric and garment		,		2021- 2022	
Course Objecti	ives:						
•		this course are to:					
		t for yarns, fabrics and garments					
		ious levels of inspection and its procedure in apparel pro		on			
3. Describe a	bout var	ious norms and standards followed in testing and inspec	tion				
Expected Cour	so Outc	amas•					
_		letion of the course, student will be able to:					
		oncept of testing and inspection, and the various standard	de		K2		
		g textiles.	us		IX2		
		esting method for assessing fabric quality			K2		
		of about the quality assessment of trims and accessories			K3		
U		n-process inspection during apparel production, various	defect	te	K2		
occurred			ucicci	ıs	112		
		he final inspection procedure, and tools used for QC			K4		
		Jnderstand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K</b>	76 - C	reate			
				1 Cuic			
IXI Kemember	, -	Anna State S	10 0	<u> </u>			
Unit:1 Importance of Control Testing - atmos	Quality. (	Quality Concepts  Quality definitions- QC, QA and TQM concepts. Testing conditions for testing lab. Inspection: Definition - Types (	g: Obj	1 jectivo	2 ho		
Unit:1 Importance of Control Testing - atmost study about Testing - atmost study - atmost st	Quality. (	Quality Concepts  Quality definitions- QC, QA and TQM concepts. Testing conditions for testing lab. Inspection: Definition - Types on the dards; AATCC, ASTM and ISO.	g: Obj	1 jective pection	2 ho es of on. B	rie	
Unit:1 Importance of Control Testing - atmost study about Testing - Unit:2	Quality. (pheric co	Quality Concepts  Quality definitions- QC, QA and TQM concepts. Testing and the conditions for testing lab. Inspection: Definition - Types and the conditions of the condition o	g: Obj	1 fective pection	2 hoes of on. B	rie	
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Unit:1 Importance of Comparison of Compariso	Quality. (pheric cotting Star spection go of fabrels.  In threat spection and making a strengtles procedured procedure of the strengtles procedure of the strengtles of the st	Quality Concepts  Quality definitions- QC, QA and TQM concepts. Testing and the production of testing lab. Inspection: Definition - Types of the production of testing lab. Inspection: Definition - Types of the product of the produc	g: Objor Insport Inspo	lective pection lating a litrong their c	2 hores of and oider of 2 hores of 3 hores o	urs urs urs rn s.	
Unit:1 Importance of Content of C	Quality. (pheric cotting Star spection g of fabrels.  In gethrea ang. Quality of the section and making a strengt sprocedus of quality of quali	Quality Concepts  Quality definitions- QC, QA and TQM concepts. Testing productions for testing lab. Inspection: Definition - Types of andards; AATCC, ASTM and ISO.  Fabric Quality  In: fabric inspection - 4 point and 10 point system, fabric dimensional stability, GSM and color fastness. Testing and a specifications for Polybags and cartoons. Care labels of the significance in apparel quality. Quality consideration and spreading. Defects in Sewing, Ironing and Packing hand seam slippage.  Final Inspection  Teres. AQL concept, MIL STD 105E, Types of Sampling and Packing hand seam slippage.	g: Objor Insport Inspo	lective pection lating a litrong their c	2 hores of and oider of 2 hores ause:	ur;	

Tex	t Books
1	Physical testing of Textiles, B.P.Saville, Elsevier Science, 1999
2	Managing Quality in Apparel Industries, Pradeep V Metha and Satish k. Bhardwaj, New Age
	International (P) Ltd, 1998.
Ref	erence Books
1	Principles of Textile Testing, J.E. Booth, Butterworths, 1986.
2	Hand book of Textile Testing and Quality Control, Elliot b. Grover and D.S. Hamby, Wiley
2	Eastern, 1988.
Rel	ated Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://clothingindustry.blogspot.com/2017/12/fabric-inspection-systems.html
2	https://textilelearner.blogspot.com/2015/06/in-process-inspection-in-garment.html
Coı	irse Designed By: Dr R Sheela John and Mrs K Catharine Francis

	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	M	L	L	S	M					
CO2	S	S	M	L	L	S	M					
CO3	S	S	M	L	L	S	M					
CO4	S	S	M	L	L	S	M					
CO5	S	S	M	L	L	S	M					

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course co	ode 23P	TEXTILE TESTING			P	C					
Core - Pra	ctical	TEXTILE TESTING	-	-	2	2					
Pre-requis	ite	2 1		,							1- 2
Course Ob	<u> </u>										
		this course are to:									
		dentification tests									
		of yarn parameters sphysical and chemical testing of fabrics									
J. Halli	about variou	s physical and chemical testing of faories									
Expected (	Course Outo	comes:									
		letion of the course, student will be able to:									
1 Evalu	ate and iden	tify the fibre composition in a blended fabric			K5	;					
		quality parameters such as count, strength and twist			K5	<del></del>					
	· ·	c quality parameters such as CRA, drapability and CRA	4		K5	;					
		c colour fastness to washing, rubbing and perspiration			K5	;					
		c dimensional stability			K5						
		Jnderstand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate;	K6 - C	reate:							
	1110 01 , 112	inderstand, the Tippiy, 11. Thingle, the Estatute, 1									
Ex.No.1	Determination	on of count of yarn using wrap reel and weighing scale		02	hou	rs					
		on of lea strength and CSP using lea strength tester			hou						
		on of yarn count from fabric swatch using beesley balar	ice.	_	hou						
Ex.No.4	Det <mark>erminati</mark>	on of twist of single yarn using electronic twist tester.		02	houi	. S					
Ex.No.5	Identification	n of fibre using microscope and by chemical test.		03	hou	rs					
		on of CRA of fabric using crease recover tester.	- 4	03	hou	rs					
EX.NO.7	launderomet			03	hou	rs					
H.V. NO X	Determination of the crock meter	on of color fastness of given sample to rubbing by using	5	02	hou	rs					
Ex.No.9	Determination using perspi	ion of color fastness of given sample to perspiration by	1	03	hou	rs					
H.X INA IIII	Determination washing.	on of dimensional stability% of a given fabric/garment	to	03	hou	rs					
Ex.No.11	Determination	on of fabric drape ability using drape meter		03	hou	rs					
<b>T</b> T 1: 6		Whate mealli									
Unit:6		Contemporary Issues			2 ho	urs					
Expert lecti	ures, online s	seminars - webinars									
		Total I action 1	01770	7	የሰ ኑ -						
m (P) -		Total Lecture h	ours		80 ho	ur					
Text Book		Tartiles D.D. Caville Elegation Colores 1000									
		Textiles, B.P.Saville, Elsevier Science, 1999 in Apparel Industries, Pradeep V Metha and Satish k. E	Phardy	ıai Nı	Δ117 Λ	<u></u>					
	ging Quanty ational (P) L		maruw	aj,int	w A	ge					
Intern	wionai (i ) L										
Reference	Books										
1 Princ	ciples of Tex	tile Testing, J.E. Booth, Butterworths, 1986.									

2	Hand book of Textile Testing and Quality Control, Elliot b. Grover and D.S. Hamby, Wiley Eastern, 1988.
Rela	ted Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://www.testing-instruments.com/blog/determine-the-exact-weight-and-length-of-yarn-with-beesley-balance/
2	https://www.intouch-quality.com/blog/5-color-fastness-tests-to-prevent-textile-fading-and-staining
Cour	rse Designed By: Dr R Sheela John and Dr P P Gopalakrishnan

	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	M	L	L	S	M					
CO2	S	S	M	L	L	S	M					
CO3	S	S	M	L	L	S	M					
CO4	S	S	M	L	L	S	M					
CO5	S	S	M	L	L	S	M					

\*S-Strong; M-Medium; L-Low

Course coo		PATTERN MAKING AND GARMENT CONSTRUCTION				C
Core - Pra	ctical		-	_	2	2
Pre-requis	ite	Basic knowledge on creating garment components			202 202	
Course Ob	iectives:		vers	81011	202	<u> </u>
	<u> </u>	f this course are to:				
		g patterns for various styles				
2. Enable	e the studen	ts to cut the fabric as per pattern and sew				
_	Course Out					
		pletion of the course, student will be able to:				
		or various garment styles as per the measurement chart			K3	3
2 Cut tl	ne garment	as per prepared pattern			K2	2
3 Selec	t the suitabl	e machines for assembly of parts			K	2
4 Set th	e machine	as per quality requirements			K4	1
5 Sew t	the parts as	per specification without defects			K4	1
		Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K	<b>6</b> - C	reate	<b>_</b>	
Draft patte	erns and co	onstruct the following garments				
	Me <mark>n's Ves</mark> t				6 ho	ur
Ex.No.2	Me <mark>n's r</mark> our	nd neck t-shirt.			6 ho	ur
	Me <mark>n's Polo</mark>			à	7 h	
1000	Men's Hoo			8	8 ho	-
	Men's Trou				6 ho	
	Men's Box	er shorts	. A		6 ho	
	Romper		1000	1.8	6 ho	
	Baba Suit  A Line Fro	olt.	No.	7	6 ho	
Ex.No.10			2	7	6 hc	-
	Nighties Nighties	ic boulee	7		5 hc	
	Ladies Skir	t A			5 h	
	700			<u> </u>		
Unit:6	-46	Contemporary Issues			2 ho	ur
Expert lect	ures, online	seminars - webinars				
•	,	THE REAL PROPERTY.				
		Total Lecture h	ours	3 7	75 ho	ur
Text Book	S					
1 Design	and patter	n making for stretch fabrics, Richardson, Fairchild book, N	New I	Delhi	, 201	7.
2 The str	retch and se	w guide to sewing on knits Ann Pearson, Stretch & Sew,	Inc, 1	974.		
Reference	Book					
1 Sewin	g for the A	pparel Industry, Shaeffer Claire, Prentice Hall, New Jersey	y, 200	)1.		
		ents [MOOC, SWAYAM, NPTEL, Websites etc.]				
		om/a-line-dress-pattern/				
2 https://	/www.youtı	ube.com/watch?v=u8q9iWt0TZA				

#### Course Designed By: Dr R Sheela John and Mrs N Sangeetha

	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7					
CO1	S	S	M	L	L	S	M					
CO2	S	S	M	L	L	S	M					
CO3	S	S	M	L	L	S	M					
CO4	S	S	M	L	L	S	M					
CO5	S	S	M	L	L	S	M					

\*S-Strong; M-Medium; L-Low



Course cod	e 23R	COMPUTER AIDED PATTERN MAKING	L	T	P	C
Core - Prac	tical		-	-	2	2
Pre-requisi	te	Basic knowledge on pattern making, grading and marker plan	d Sylla Vers			
Course Ob	ectives:	•		<u> </u>		
The main of	ojectives o	f this course are to:				
		g patterns using pattern CAD software for various sty	les			
	· ·	patterns for various sizes				
3. Train i	n preparin	g marker with maximum efficiency				
Expected C	ourse Ou	tromes				
		pletion of the course, student will be able to:				
		for various gar <mark>ment styles as p</mark> er the measurement cl	nart using	CAL	Ke	<u> </u>
softwa						
2 Grade	the patter	ns for various sizes			K5	;
3 Prepar	e marker	olan			Ke	5
4 Plan f	or a greate	r marker efficiency			<b>K</b> 4	ļ.
5 Estim	ating lay l	ength and calculating marker efficiency			K2	2
K1 - Remer	nber; <b>K2</b> -	Understand; K3 - Apply; K4 - Analyze; K5 - Evalua	ate; K6 - (	Create	•	
	100					
CAD	sof <mark>twa</mark> re	s used to practice the following styles mentioned,				
		mputer screen, adding details to patterns.		à.	A	
		extracting and edit <mark>ing</mark> patterns fr <mark>om s</mark> tock libra <mark>r</mark> y of F	<mark>atte</mark> rns.	330	2	
		different size scale.		300	- 0	
		n for cutting fabrics.	-		3	
		th and calculating marker efficiency.	200		7	
Ex.No.1		iven pattern using 3D CAD software.	- E	7 9	2 ho	11100
Ex.No.2	Raglan w			- 6	2 ho	
Ex.No.3	Men's Po				3 ho	
Ex.No.4	Men's Tr				3 ho	
Ex.No.5		Shirt with hood	7		3 ho	
Ex.No.6		er Garment – Vests RN / RNS			2 ho	
Ex.No.7	Ladies Sk	The state of the s			2 ho	
Ex.No.8	Women's				3 ho	
Ex.No.9		ar – Romper			3 ho	
Ex.No.10		ar – A Line frock			2 ho	
Ex.No.11		s Suits and Pyjama			3 ho	
Unit:6		Contemporary Issues			2 ho	urs
Expert lectu	res, online	seminars - webinars				
		Total Lectur	e hours		30 ho	iire
Text Books		Total Lectur	c nouls		20 110	ulb
		pattern design product development, Asim Kumar, I	Roy Chou	dry,		
_		seller, Coimbatore	•	•		

2	Pattern cutting for clothing using CAD, -Lectra and Modaris ,M.Stott, Woodhead Publishing,
	ASIN
Refe	erence Book
1	Computerized Patternmaking for Apparel Production, Laura Nugent, Bloomsbury Publishing PLC, 2016
Rela	nted Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1	https://tukatech.com/tukacad-shortcuts/
2	https://optitex.com/products/2d-and-3d-cad-software/
Cou	rse Designed By: Dr R Sheela John and MrS Kokilavani

	Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7				
CO1	S	S	M	L	L	S	M				
CO2	S	S	M	L	L	S	M				
CO3	S	S	M	L	L	S	M				
CO4	S	S	M	L	L	S	M				
CO5	S	S	M	L	L	S	M				

<sup>\*</sup>S-Strong; M-Medium; L-Low

Course code	27V	PROJECT WORK		T	P	C	
Core			-	-	4	4	
Pre-requisite		Basic knowledge on the various sectors of apparel industry	Syllabus 2021 Version 2022				
Course Objectives:							
The main objectives of this course are to:							

- 1. Identify a problem in the field of apparel production and related field
- 2. Survey or carry out activities leading to generation of new knowledge.

Prepare the reports and presentations in the specified format.

3. Prepare a report and make a presentation

Expe	Expected Course Outcomes:				
On th	On the successful completion of the course, student will be able to:				
1	Identify, formulate a real world problem and break-down the complex problems				
	into various concepts and principles based on the literature search				
2	Identify the activities required and methods to fulfill them and prepare a work-plan	K3			
	to execute the activities				
3	Create and / or select appropriate processes / tools for preparation of work	K6			
	plan(materials and methods)				
4	Develop a product or process with systematic approach involving problem	K6			
	analysis, designing solutions (considering health, safety, legal and cultural issues)				

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

• Each student or batch will be alloted to a faculty guide based on the selected area of interest. Area of interest and guide allotment should be finalized before the commencement of 6th semester.

K3

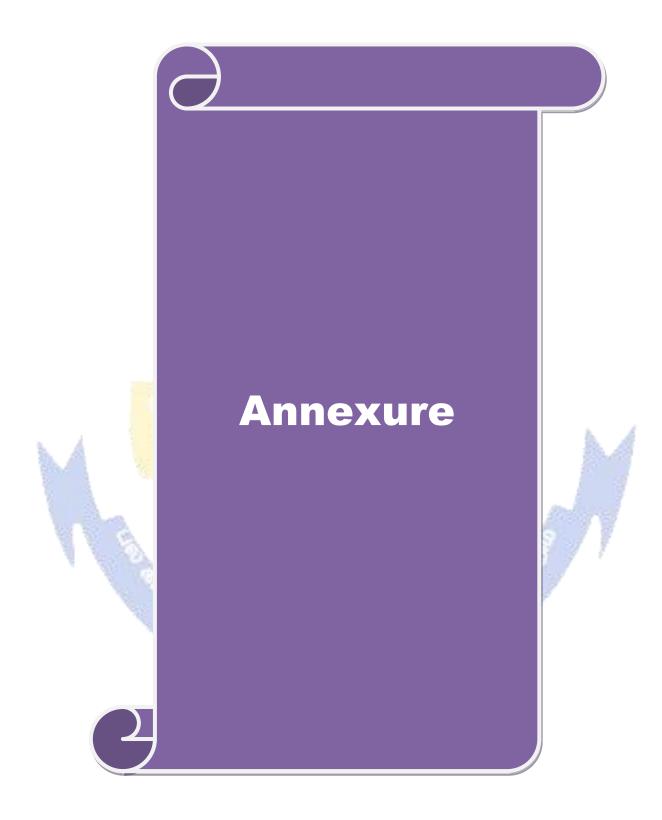
- Students can carry out the project work individually or as a group. A group can have a maximum of 4 students only.
- Period of project work may be completed in 3 weeks or 2 days per cycle of 6 days.
- Project areas/ topics should be in the following areas Spinning / weaving / Knitting /
  Dyeing / Printing / Finishing/ Washing / Sewing or any other related areas of Apparel
  production.
- Project work may be a technical one such as development of new product / process or an in depth study of Existing Process for improvement. It may be non-technical such as Study on HRM, QMS, Marketing, Retail, finance etc. But it should be done in the areas connected to the apparel business.
- All the formats and guidelines for preparing report will be given by the department.
- The students must prepare and submit a rough copy on or before third week of February.
- Student must present for review meeting conducted during project period and the progress will be assessed by the team of faculty members comprising guide and Head of the Department.

	Total Lecture hours	105 hours			
Course Designed By: Dr R Sheela John and Dr P P Gopalakrishnan					

Mapping with Programme Outcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	S	S	M	L	L	S	M
CO2	S	S	M	L	L	S	M
CO3	S	S	M	L	L	S	M
CO4	S	S	M	L	L	S	M
CO5	S	S	M	L	L	S	M

\*S-Strong; M-Medium; L-Low





#### PG Diploma in Apparel Merchandising & Management



## DEPARTMENT OF PG DIPLOMA IN APPAREL MERCHANDISING & MANAGEMENT

Bharathiar University
(A State University, Accredited with "A"Grade by NAAC and 13<sup>th</sup> Rank among Indian Universities by MHRD-NIRF)
Coimbatore 641 046, INDIA