B.Sc. Garment Designing And Production

Syllabus

AFFILIATED COLLEGES

Program Code:26N

2021 - 2022 onwards



BHARATHIAR UNIVERSITY

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

Coimbatore - 641 046, Tamil Nadu, India

Program	Program Educational Objectives (PEOs)						
The B. So	c. Garment Designing & Production program describe accomplishments that						
graduates	are expected to attain within five to seven years after graduation						
	Garment Designing Ethos: To bring the conceptual and methodological						
PEO1	approaches of Garment Designing to bear on the challenges they take on,						
1 LO1	abstracting design elements, recognizing sources of uncertainty, and applying						
	appropriate models, techniques and evaluations to develop their products.						
	Application of Production Skill: To provide the students with a solid foundation						
PEO2	in Production, Planning and Industrial Engineering principle required to develop						
	problem solving ability and give effective solution to the garment industry.						
	Diversification: To promote among student graduates the ability to gain						
PEO3	multidisciplinary knowledge through projects and industrial training, leading to a						
sustainable competitive edge in R&D and meeting societal needs.							
PEO4 Projects: To implant group work and team management skills							
coordination, promote knowledge transfer and deliver a varied complex proj							
	Teamwork: To prepare the graduates for a successful career with effective						
PEO5	communication skills, teamwork skills and work with values that meet the						
	diversified needs of industry, academia and research.						
	Self Learning: To develop self-learning ability of graduate by inculcating the						
PEO6	attitude about continuous learn, innovate and contribute to creation of new ideas						
	for the benefit of the society at large.						
PEO7	Entrepreneurs: To encourage the graduate's qualities of leadership for						
TEO7	technology innovation and entrepreneurship.						
	Ethics and Social Relevance: To sensitize students towards issues of social						
PEO8	relevance, openness to other international cultures and to introduce them to						
	professional ethics and practice.						
	Versatility: To build up abilities and talents leading to creativity and productivity						
PEO9	in fields and professions beyond the regular Garment Designing & Production						
	curriculum.						
	Performance Indicator: To achieve at least 85% of the graduates employed in						
PEO10	careers such as Product development executives, Industrial Engineers, Production						
12010	Executives, Sample Designers, Chief Executive Officers, Entrepreneurs' in 5 to 7						
	years time.						

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Program	Specific Outcomes (PSOs)						
After the	successful completion of B.Sc. Garment Designing and Production program, the						
students are expected to							
PSO1	Understand the organization and structure of the global textile/apparel complex.						
PSO2	Understand the raw materials and their process which are required to make ready to wear apparels.						
PSO3	Develop garment products for specific target markets to meet expectations for cost and quality (materials, performance, and aesthetics).						
PSO4	Evaluate the properties and performance of materials in garment products.						
PSO5	Apply the creative design process both aesthetic and technical performance and evaluate outcomes.						
PSO6	Apply technical knowledge and skills in pattern making, fit assessment, materials selection, and assembly processes to meet customer demand.						
PSO7	Analyze factors affecting human resource management issues, production planning, scheduling, and inventory control relative to business goals and professional development.						
PSO8	Analyze the various production methods appropriate to products, quality, cost, and equipment.						
PSO9	Apply technology and work measurement to increase productivity, decrease costs, and shorten delivery time.						
PSO10	Study about the market assessment and consumer factors that influence apparel and textile merchandising.						

Progran	Program Outcomes (POs)						
On succe	essful completion of the B.Sc. Garment Designing & Production program						
PO1	To gain basic knowledge of various sector of textile industry						
PO2	To attain thorough knowledge about the concepts involved such as material selection, process etc in garment designing and production techniques						
PO3	To understand and applications of intellectual, trade and manufacturing concepts for apparel sector where and when it is required						
PO4	Facilitates to Identify, formulate and analyze the complex situations to arrive acceptable solutions by applying domain specific knowledge, acquired through the programme.						
PO5	Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.						
PO6	Commit to professional ethics and responsibilities in the associated disciplines.						
PO7	Acquire various technical skills relevant to the programme.						
PO8	Function effectively as an individual or as a member or leader in teams and in multidisciplinary settings.						



BHARATHIAR UNIVERSITY:: COIMBATORE 641 046

B. Sc. Garment Designing & Production - Curriculum

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

Scheme of Examination

				Exa	dits		
Dowt	Title of the Course	Hours/ Week	ion	Ma			
Part	Title of the Course	Hours/ Week	Duration in Hours	CIA	CEE	Total	Credits
	Semester I						
I	Language-I	6	3	50	50	100	4
II	English-I	6	3	50	50	100	4
III	Core Paper I – Basic Textile Studies	4	3	30	45	75	3
III	Core Paper II– Fashion Design Concept & Methodology	4	3	30	45	75	3
III	Core Practical I - Fashion and Art Design	4	3	50	50	100	4
III	Allied Practical I - Computer Application Practical	4	3	50	50	100	4
IV	Environmental Studies *	2	3	-	50	50	2
	Total	30	-	260	340	600	24
	Semester II	WE	2	A	•	1	
I	Language-II	6	3	50	50	100	4
II	English-II	6	3	50	50	100	4
III	Core Paper III – Woven Fabric Manufacturing Studies	4	3	30	45	75	3
III	Core Paper IV – Apparel Manufacturing Technology I		3	30	45	75	3
III	Core Practical II - Woven Fabric Analysis and Textile CAD	4	3	50	50	100	4
III	Allied Practical II- Basic Apparel Production Practical	4	3	50	50	100	4
IV	Value Education – Human Rights *	2	3	- 1	50	50	2
	Total	30	A	260	340	600	24
	Semester III	1 6	A CONTRACTOR		T		T
III	Core Paper V – Textile Coloration Techniques	4	3	30	45	75	3
III	Core Paper VI – Knit Fabric Manufacturing Studies	4	3	50	50	100	4
III	Core Paper VII – Apparel Manufacturing Technology II	4	3	50	50	100	4
III	Core Practical III - Pattern Making and Grading of Woven & Knits	6	3	50	50	100	4
III	Allied Practical III - Knit fabric analysis Practical	6	3	50	50	100	4
IV	Skill based Subject I - Textile Coloration Techniques Practical	4	3	30	45	75	3
IV	Tamil** / Advanced Tamil* (OR) Non- major elective - I (Yoga for Human Excellence)* / Women's Rights*	2	3	-	50	50	2
	Total	30	-	260	340	600	24
	Semester IV						
III	Core Paper VIII – Apparel Merchandising & Trade Documentation	4	3	30	45	75	3

	G D D 17 A 17 C 0 0 11						1
III	Core Paper IX – Apparel Testing & Quality control	5	3	50	50	100	4
III	Core Paper X – Apparel costing Techniques	4	3	50	50	100	4
III	Core Practical IV - Garment Construction Knits	5	3	50	50	100	4
III	Allied Practical IV - Apparel Testing & Quality Control Practical	5	3	50	50	100	4
IV	Skill based Subject II - Computer Aided Pattern designing Practical	5	3	30	45	75	3
IV	Tamil**/Advanced Tamil* (OR) Non-major elective -II (General Awareness*)	2	3	-	50	50	2
	Total	30	-	260	340	600	24
	Semester V						
III	Core Paper XI – Apparel Industrial Engineering –I	5	3	30	45	75	3
III	Core Paper XII– Total Quality Management	4	3	30	45	75	3
III	Core Paper XII – Technical Textile and Functional Apparel	4	3	30	45	75	3
III	Core Practical V- Computer Aided Fashion Art	6	3	50	50	75	3
III	Elective –I	6	3	50	50	100	4
IV	Skill based Subject III- Design Process and Product Development –II Practical	5	3	50	50	100	4
III	Internship viva voice #	-		25	25	50	2
	Total	30	-	240	310	550	22
	Semester VI						
III	Core Paper X IV - Apparel Industrial Engineering –II	6	3	30	45	75	3
III	Core Paper XV- Enterprise Resource Planning	4	3	30	45	75	3
III	Core Paper XVI- Entrepreneurship and Small Business Development	4	3	30	45	75	3
III	Elective –II	6	3	50	50	100	4
III	Elective –III	5	3	50	50	100	4
IV	Skill based Subject IV - Project Work & Viva Voce#	5	3	30	45	75	3
V	Extension Activities @	-		50	-	50	2
	Total	30	-	270	280	550	22
	Grand Total	180	-	-	-	3500	140
			•	•	•		•

CIA – Continuous Internal Assessment

CEE – Comprehensive External Examination

#Mark Division for Internship and Project

Paper title	Total	CIA	CEE		
	Marks		Evaluation	Viva-voce	
Internship viva voice	50	25	15	10	
Skill based Subject :IV Project &	75	30	30	15	
Viva Voce					

^{*} No Continuous Internal Assessment (CIA). Only University Examinations.

^{**} No University Examinations. Only Continuous Internal Assessment (CIA).

Additional Credit Course

Earning Additional credit course is not mandatory for Programme Completion. Prescribed courses under UGC – SWAYAM/ MOOCS/ NPTEL will be available for the affiliated colleges, as an optional.

List of Ele	ective paper	rs (Colleges can choose any one of the paper as Electives)		
	A	Pattern Making and Garment Construction of Woven Practical		
Elective –I	В	Draping Practical		
	С	Surface Ornamentation Practical		
Elective –II	A Design Process & Product Development –II Practical			
Elective –II	В	Advanced Fashion Illustration Practical		
	C	Advanced CAD Practical		
Elective –III	A	Fashion Merchandising		
Elective –III	В	Apparel Retailing		
	С	Brand management		

III	Elective Paper III	4	5	-	3	25	75	100
IV	Skill Based Subject IV - Project and Viva Voce*	3	-	5	3	-	75	75
V	Extension Activities @	2	-	-	-	50	ı	50
	Total			0	-	175	375	550
	Grand Total	140	-	-	-	-	-	3500
	UGC – SWAYAM / MOOCS / NPTEL Additional Credit (Optional							
)							

Note:

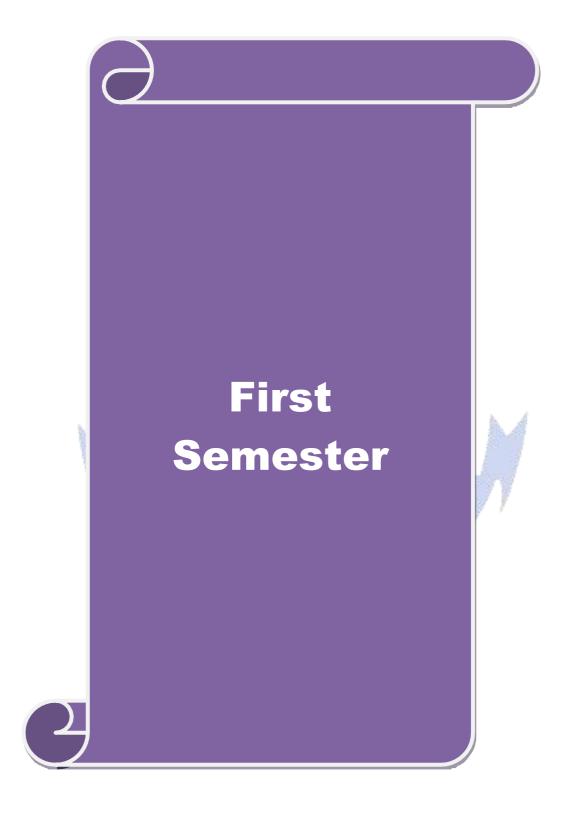
- @ No University Examinations. Only Continuous Internal Assessment (CIA)
- # No Continuous Internal Assessment (CIA). Only University Examinations.
- * For Project Work 80% Marks and Viva Voce 20% Mark

Additional Credit Course

Earning Additional credit course is not mandatory for Programme Completion.

Prescribed courses under UGC – SWAYAM/ MOOCS/ NPTEL will be available for the affiliated colleges, as an optional.

List of El	List of Elective papers (Colleges can choose any one of the paper as Electives)							
	A	5EP	Pattern Making and Garment Construction of Woven Practical					
Elective –I	В	5EQ	Draping Techniques Practical					
1	C	5ER	Surface Ornamentation Practical					
Elective –II	A	6EP	Design Process and Product Development II					
Elective –II	В	6EQ	Advanced Fashion Illustration					
1	C	6ER	Advanced CAD Samuel CAD					
Elective –III	A	6EA	Fashion Merchandising					
Elective –III	В	6EB	Apparel Retailing					
	C	6EC	Brand Management					



Course code	13A	BASIC TEXTILE STUDIES	L	T	P	C
Core		Paper I	4	-	-	3
Pre-requisite		Basic science knowledge		abus sion		021- 022
Course Objectiv	ves:					

The main objectives of this course are to:

- 1. Impart the knowledge of fibers, and their sources.
- 2. Help the students to understand the identification and properties of fibers.
- 3. Provide students with the knowledge of yarn manufacturing and their properties.

Expected Course Outcomes:

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

CO1	Understand the knowledge about textile fibers and their manufacturing process	K2
CO 2	Understand about the textile yarn and its manufacturing process	K2
CO 3	Apply the domain knowledge to identify the textile fibers and yarn	К3
CO 4	Analyze the various structural properties of textile fibers	K4
CO 5	Evaluate the quality of fibers and yarn	K5

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

Unit:1 Textile Fibers – Cellulose Fibers 12 hours

Textile fibers: Classification – General properties – Identification of textile fibers - Polymer – Terminologies – Polymerization types - Types of polymers – Methods of filament spinning. Cotton: Grading of cotton - Properties of cotton fiber - Production, morphological structure end uses. Jute: Introduction - Production Process - Properties - End uses. Flax: Introduction Production Process – Properties - End uses.

Unit:2 Natural Protein Fibers 12 hours

Wool: Producing countries - Grading - Fiber morphology - Chemical structure & composition - Properties - End Uses - Study of Woolen and Worsted Yarns - Brief study on specialty hair fibers and uses.

Silk: Producing countries – production of silk fiber. Chemical composition – Properties - End uses. . Brief study on wild silk varieties.

Unit:3 Man Made Fibers 12 hours

Introduction – Rayon fibers -Manufacturing sequence of viscose fiber - Viscose fiber properties - Introduction of Modal, Llyocell & Bamboo fibers and uses. Manufacturing & Properties of Polyester, Nylon, Acrylic and Spandex fibers.

Unit:4 Yarn manufacturing 12 hours

Introduction to yarn classification – Staple spinning systems – Production sequence for cotton yarn – Comparison of carded and combed yarn – Yarn winding – Study of yarn quality parameters – Various yarn package defects – yarn numbering.

Unit:5 Latest Trends in Fibers and Yarn 12 hours

Introduction to blended textile. Classification of Sewing threads & applications. Introduction to organic cotton & specialty natural fibers such as, banana, pineapple, spider Silk – Brief study about OE & Air jet spinning. Introduction to fibers and yarns used in technical textiles.

		Total Lecture hours	60 hours
Tex	xt Book(s)		
1	Hand bool	of textile fibers, J.Gordon Cook, Woodhead Publications, 1984.	

2	The Technology of Short Staple Spinning, W. Klein, North Carolina State University,						
	1987.						
3	Manufactured Fiber Technology, V.B. Gupta & V.K. Kothari, Springer science &						
	Business Media,1997.						
Ref	ference Books						
1	Physical Properties of Textile Fibres, W.E. Morton & J.W.S. Hearle, Woodhead Publications, 2008.						
2	New Spinning Technology, W.Klien, Textile Institute, 1993.						
Rel	lated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)						
http	os://nptel.ac.in/courses/116/102/116102026/						
http	ps://onlinecourses.swayam2.ac.in/cec19_te01/preview						
Coi	urse Designed By: P.Murugan						

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	M	M	S	M	M	S
CO2	S	S	M	M	S	M	M	S
CO3	S	S	S	S	S	M	S	S
CO4	S	S	S	S	M	M	S	S
CO5	S	S	S	S	S	M	S	S

Course code	13B	FASHION DESIGN CONCEPT AND METHODOLOGY	L	Т	P	C
Core		Paper II	4	-	-	3
Pre-requisite		Basic Knowledge in fashion and designs	•	llabus ersion		2021- 2022

The main objectives of this course are to:

- 1. Impart the knowledge of fashion and their concept of evolution.
- 2. Help the students to understand the principle and elements of design.
- 3. Provide students with the knowledge of design development according to the fashion trends.

Expected Course Outcomes:

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

CO1	Understand about the fashion, design and its evolution	K2
CO 2	Understand about elements and principles of design applicable for fashion product manufacturing	К3
CO 3	Analyze about the various facts to identify the fashion trends	K4
CO 4	Apply the domain knowledge to develop design concepts	К3
CO 5	Apply the domain knowledge to develop samples using available materials	К3

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

Unit:1 Introduction to Fashion 12 hours

Fashion Definition – Fashion terminologies – Classification of fashion – Fashion cycle – Factors influencing in fashion – Role and responsibilities of a fashion designers – Types of fashion designers.

Unit:2 Elements of design 12 hours

Introduction to design – Types of design – Elements and their importance in a design – Line – Types – Application of line in a garment – Influence of line in various illusion - Shape – Types – Importance of shape in garment design – Texture – Determinants of texture – Effect of texture on color & physical proportion

Unit:3 Color & Color theory 12 hours

Introduction to color theories – Dimensions of color – Color systems – Warm and cool colors – color schemes – Application of color in fashion design – Visual impact of color in a garment – Importance of color psychology

Unit:4 Principles of design 12 hours

Importance of principles of design in fashion – Balance and its types – Proportion and its application in garment design – Emphasis – Creating emphasis in a garment using various techniques – Harmony and its impact in garment design – Rhythm – Application of rhythm in garment design

Unit:5	Garments						
Importance of	Importance of details in apparel design – Various types of neck, collar & sleeve – Different						
types of waist & hem lines – Types of plackets, Pockets- Garments for men, women and kids							
_ Unisex_garm	ents – Intimate active and functional garments						

	Total Lecture hours	60 hours
Text Book(s)		

1	Elements of Fashion and Apparel Design, G.J.Sumathi, New Age International private Ltd, New Delhi, 2002.
2	Fashion Source Book, Kathryn Mckelvey & Janine Munslow, Blackwell Publication, 2006.
3	Encyclopaedia of Fashion Details, Patric John Ireland, Prentice Hall, NewJ, 1988.
Re	ference Books
1	Apparel Making in Fashion Design, Injoo Kim & Mykyung Uh, Fairchild Publications, New York, 1988.
2	A Complete Guide to Fashion Designing, Jenny Davis, Bharat Bhushan Abhishek Publication, 2006.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	p://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_module_ug.php/145
http	os://munsell.com/color-blog/modern-traditional-color-theory-part-1/
Co	urse Designed By: B.Jeyanthy

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	M	S	S
CO4	S	S	S	S	S	S	S	S
CO5	M	M	M	M	M	M	S	S

Course code	13P	FASHION AND ART DESIGN	L	T	P	C
Core		Practical I	•		4	4
Pre-requisite		Practical Knowledge on drawing	Sylla Ver	abus sion	-	21-)22

The main objectives of this course are to:

- 1. Understand the fundamental and principles of design
- 2. Practice different illustration techniques
- 3. Provide self employment as a illustrator.

Expected Course Outcomes:

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

CO1	Understand motif designs, layouts, repeats, textures for textile and garment substrate using various techniques,	K2
CO2	Create motif designs, layouts, repeats for textile and garment substrate using and apply color	K6
CO3	Understand about head theories, flat sketches for garments and accessories	K2
CO4	Create flat sketches for garments and fashion accessories	K6
CO5	Create 8 head theory figure for fashion	K6

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

Part A 20 hours

- 1. Object drawing and perspective drawing
- 2. Various shading methods
- 3. Techniques of Enlarging & Reducing the motifs
- 4. Motifs layouts Non directional, One directional, Two directional, All over packed, All over set and All over tossed.
- 5. Techniques of repeats: Straight, box, half drop, five star and random Plaids, Checks and Stripes
- 6. Colour chart preparation, Colour theory and colour harmonies

Part B 40 hours

- 1. Art of creating textures.- Pleats, Tucks, Smocking & Quilting
- 2. Practice to draw Flat Sketches for Basic Men's , Women's & Kid's Garments
- 3. Proportion study –8 head theory sticks, block, & flesh figures for men & women.
- 4. Practice to draw the accessories.- Footwear& Handbags.

Text Book(s)

- Fashion Illustration Techniques: A Super Reference Book for Beginners, Zeshu Takamura, Rockport Publishers, 2012.
- 2 Fashion Illustration & Design: Methods & Techniques for Achieving Professional Designs, Manuela Brambatti, Promopress Publications, 2017.
- Fashion Flats and Technical Drawing, Bina Abling & Felis Dacosta, Bloomsbury publications, 2017.

Reference Books

- 1 Fashion Sketch Books, Bina Abling, Bloomsbury publications, 2012.
- 2 Fashion Source Book, Kathryn Mc Kelvey, Wiley Blackwell Publications, 1996.

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
https://www.youtube.com/watch?v=_uUNMHFSsBk
https://youtu.be/SSzQZzpGDl0
https://youtu.be/dy_wyqAS8wE
Course Designed By: R.Sneha

Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
CO1	S	S	S	S	S	S	S	S	
CO2	S	S	S	S	S	S	S	S	
CO3	S	M	M	S	M	S	S	S	
CO4	S	M	M	S	M	S	S	S	
CO5	S	M	M	M	M	S	S	S	



Course code	1AP	COMPUTER APPLICATION PRACTICAL	L	Т	P	С
Allied		Practical - I	-	-	4	4
Pro roquisito		Basic knowledge about computer	Syll	abus	2021-	
Pre-requisite		operating tools		Version)22

The main objectives of this course are to:

- 1. Helps students to understand the fundamentals of Office software.
- 2. Understand the different presentation and visualization tools of Ms-Office
- 3. Understand the problem solving techniques and flow charts of Ms-Office

Expected Course Outcomes:

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

CO1	Understand the Ms-Office tools and their application	K2
CO 2	create the document formats by applying the domain Knowledge	K6
CO 3	Create Excel statement and charts	K6
CO 4	Understand about the HTML program and their application	K2
CO 5	Create web pages with hyperlinks linking all pages	K6

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

Part A MS-Office 45 hours

- 1. Prepare an interview call letter using mail merge in MS word
 - 2. Design the given advertisement using MS word. Apply various fonts and pictures.
 - 3. Create line, bar and pie charts for the given data using MS Excel.
 - 4. Prepare students mark statement with the following fields Roll No, Name, Sub1, Sub2, Sub3, Sub4, Sub5. Calculate Total, Average, Result and Grade. Apply Conditional formatting.
 - 5. Prepare employee salary list with fields Employee No, Employee Name, Experience, Basic Pay, HRA, DA, LIC, PF. Calculate Gross salary & Net Salary based on the following conditions

Experience	HRA	DA	LIC	PF
5 Years & Above	30%	15%	3%	700
Less than 5 Years	15%	5%	3%	700

- **6.** Prepare a power point presentation about a product. Apply animation and slide timing.
- 7. Create an Email ID and use various mail features.

Part	В	HTML	15 hours
1	. Design five web page	es with hyperlinks linking all pages	
		Total Lecture hours	60 hours
Text	Book(s)		
1	Word for Beginners, M	.L. Humphrey, M.L. Humphrey publications, 2019).
2	Microsoft Word 2019 S	Step by Step, Joan Lambert, Microsoft Press, 2019.	,
3	Practical Techniques in	Microsoft Word, Neibuer & R.Alan, Sybex Inc., U	J.S. Sybex,1986
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , <u>, ,</u>	

Reference Bo	ooks
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- Exploring Microsoft Word, Mary Anne Poatsy, Lynn Hogan & Linda Lau, Pearson Publications, 2019.
- Benchmark Series: Microsoft Excel 2019 Levels 1&2, Audrey Roggen kamp, Ian Rutkowsky & Nita Rutkosky, Paradigm Education Solutions publications, 2019

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)

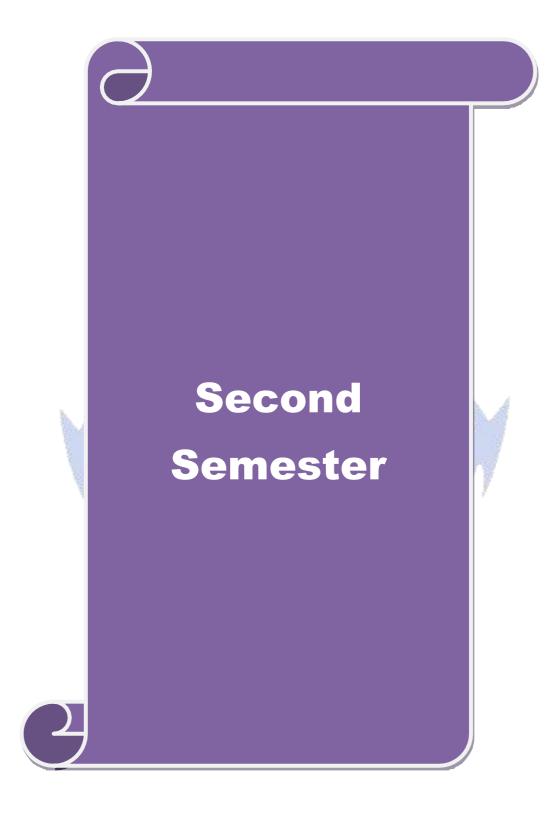
https://www.microsoft.com/en-in/p/swayam/9nblggh4xxml?activetab=pivot:overviewtab=

https://onlinecourses.swayam2.ac.in/cec20_cs05/preview

Course Designed By: P.Murugan

Mappi	Mapping with Programme Outcomes							
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	M	M	M	M	M	S	S
CO2	M	M	M	M	M	M	S	S
CO3	M	M	M	M	M	M	S	S
CO4	M	M	M	M	M	M	S	S
CO5	M	M	M	M	M	M	S	S





Course code	23A	WOVEN FABRIC MANUFACTURING STUDIES	L	T	P	C
Core		Paper III	4	-	-	3
Pre-requisite		Basic knowledge about textile fibre and yarn	•	abus		2021- 2022
Course Object	ives:					
The main object 1. Understand t 2. Helps the stu 3. Facilitates str Expected Cour On the successf CO1 Unders CO 2 Unders CO 3 Apply CO 4 Analyz CO 5 Create K1 - Remembe Unit:1 Classification	tives of this combet he knowledge dent to learn to dearn	about Preparatory process of weaving. appet, dobby and jacquard loom mechanisms the field of Woven fabric designs.	uate;	es -	10 Ob	hour s
winding machi terminologies, o – Objects - Pass	ine – Passage open wind and	e of material through precision winding of close wind – Winding defects, causes & reral through an automatic high speed pirn wind	mach nedi	nine -	- 1	Winding
IInit·2		Warning & Sizing Process			12	hour
Unit:2 Objects of war	ping – Types	Warping & Sizing Process of warping – Passage of material through	higl	h spe		
Objects of war beam warping of Objects of sizin	machine & sen ng – comparis	Warping & Sizing Process of warping – Passage of material through ctional warping machine – Warping defects, son of two cylinder, multi cylinder & hot a functions – Size paste preparation – Sizin	, Cau ir siz	ses & zing r	ed t re nac	moderremedies chines -
Objects of war beam warping of Objects of sizing Sizing ingredien	machine & sen ng – comparis	of warping — Passage of material through ctional warping machine — Warping defects, son of two cylinder, multi cylinder & hot a	, Cau ir siz	ses & zing r	ed z re nac , ca	moderr emedies chines – nuses &
Objects of war beam warping of Objects of sizing Sizing ingredient remedies. Unit:3 Passage of massecondary &	machine & seng — comparisents & their factorial through auxiliary more	of warping – Passage of material through ctional warping machine – Warping defects, son of two cylinder, multi cylinder & hot a functions – Size paste preparation – Sizin	Cau ir siz g de of a l	oom & u	ed to remace, ca 1: — I	moderremedies chines – auses & 2 hours
Objects of war beam warping objects of sizing ingredies. Unit:3 Passage of ma secondary & mechanisms — causes & remedures.	machine & seng — comparisents & their factorial through auxiliary more Beat up mechalies.	of warping – Passage of material through ctional warping machine – Warping defects, son of two cylinder, multi cylinder & hot a functions – Size paste preparation – Sizin Tappet Loom Mechanism a plain power loom – Basic mechanisms of tions – Tappet shedding – Cone over panism – Types of let off & take up mechanism Weave Diagram	of a loick	oom - Fab	ed tree received to the receiv	modernemedies chines - nuses & 2 hours Primary er pick defects
Objects of war beam warping to Objects of sizing ingredies remedies. Unit:3 Passage of masecondary & mechanisms — causes & remedies. Unit:4 Introduction to derivatives — S	machine & seng — comparisents & their factorial through auxiliary more Beat up mechalies. weaves — Watin & sateen	of warping – Passage of material through ctional warping machine – Warping defects, son of two cylinder, multi cylinder & hot a functions – Size paste preparation – Sizin Tappet Loom Mechanism a plain power loom – Basic mechanisms of tions – Tappet shedding – Cone over panism – Types of let off & take up mechanism	of a loick	oom & u - Fab	ed tree mac, ca	moderremedies chines - huses & 2 hours Primary er pick defects, 4 hours eave &
Objects of war beam warping to Objects of sizing ingredies remedies. Unit:3 Passage of masecondary & mechanisms — causes & remedies. Unit:4 Introduction to derivatives — S	machine & seng — comparisents & their factorial through auxiliary more Beat up mechalies. weaves — Watin & sateen tra warp and e	of warping — Passage of material through ctional warping machine — Warping defects, son of two cylinder, multi cylinder & hot a functions — Size paste preparation — Sizin Tappet Loom Mechanism a plain power loom — Basic mechanisms of the state of the series of let off & take up mechanism — Types of let off & take up mechanism — Types of let off & take up mechanism — Weave Diagram Veave Diagram Veave diagram — Plain weave & derivative weaves — Ordinary and Brighten Honey Company — Veave Diagram — Veave diagram — Plain weave & derivative — Veave — Ordinary and Brighten Honey Company — Veave — Veav	of a loick	oom & u - Fab	ed to recommend to	medies. chines — nuses & 2 hours Primary, er pick defects, 4 hours eave &

Total Lecture hours

60 hours

Tex	kt Book(s)
1	Fabric Structure and Design, N.Gokarneshan, New Age International Publishers, New
	Delhi, 2008.
2	Handbook of Weaving, Sabit Adanur, CRC Press, 2000.
3	Fabric Forming, B.Hasmukhrai, SSM ITT Co operative stores Ltd, Komarapalayam, 1996.
Rei	ference Books
1	Principles of Weaving, R.Marks, & A.T.C. Robinson, The Textile Institute, 1976
2	Design of Woven Fabrics, I.Blinov & S.Belay, MIR Publishers, Moscow, 1988
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
	os://nptel.ac.in/courses/116/102/116102005/
	os://nptel.ac.in/courses/116/102/116102017/
Cor	urse Designed By: T.Sathishkumar

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	S	S	M	M	M	S	S	S
CO4	S	S	S	M	M	M	S	S
CO5	S	S	S	S	S	S	S	S

Course code	23B	APPAREL MANUFACTURING TECHNOLOGY I	L	T	P	C
Core		Paper IV	-	- 4		3
Pre-requisite		Basic knowledge about cutting and sewing tools and equipments	Syllabus Version		2021-2022	
Course Object	tives:		•		•	
The main object	ctives of this c	ourse are to:				
1. Provide the l	knowledge ab	out the preparatory process of sewing pro	ocess.			
		stand the working principles of various s		machi	ines.	
3. Enhance the	student's kno	wledge in garment finishing equipments.				

Expected Course Outcomes:

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

011 1110	sweets and the course, student will be used to:	
CO1	Understand about preparatory process and equipments for sewing ie spreading & cutting	K2
CO 2	Understand the SNLS, DNLS, O/L & F/L machine working mechanisms.	K2
CO 3	Analyze the spreading and cutting methods for one way or two way printed fabric and speciality textile materials	K4
CO 4	Apply the domain knowledge to identify the right choice of the machine and work aids for the specific style developments	К3
CO 5	Analyze the possible defects related to sewing and cutting process	K4

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

Unit:1 Spreading Machines 12 hours

Types of Fabric Packages. Types of Fabrics – One Way – Two Way Fabrics – Their effect on spreading. Methods of Fabric spreading. Spreading equipments - manual, semi automatic and fully automatic machines. Marker planning, Marker efficiency, Factors affecting marker efficiency. Marker duplicating methods – Computer aided marker making.

Unit:2 Cutting Machines 12 hours

Introduction to cutting machines. Types and functions of cutting machines – straight knife, round knife, band knife cutting machines, die, laser, plasma, water jet and ultra sonic cutting machines; notches, drills and thread markers &Computerized cutting machines. Common defects in cutting and their remedies.

Unit:3 Sewing Machines 12 hours

Introduction to sewing Needles: Types, size, selection and their application - Basic parts of sewing machines - primary and auxiliary parts and their functions .Classification of sewing machine and its functions -SNLS, DNLS, over lock, flat lock. Sewing machine bed types-Description and application of each bed -Flat bed -Cylinder bed -Post bed. Special attachments in sewing machines - guides, folders, stackers, trimmers, ziggers.

Unit:4Special Purpose Sewing Machines12 hoursIntroduction to different special purpose sewing machines. Basic working of Feed of Arm,
Button Hole sewing, button sewing, Bar tack, blind stitch machines. Embroidery sewing

machines. Latest developments in sewing machines. Sewing machine maintenance.

Unit:5 Finishing Machines 12 hours

Introduction to Fusing – principles, fusing machines and its working principle; Pressing – Principles and classification of pressing. Garment folding-types Packaging-types, materials, method and equipments. Selection of packaging design. Packaging-Types of package forms-Types of packaging materials.

		Total Lecture hours	60 hours
Te	xt Book(s)		
1	The Technology Sciences,	nology of Clothing Manufacture, Harold Carr & Barbara lath 1996	ham, Black well
2	Apparel N 1980.	Manufacturing Handbook, Jacob Solinger, Van Nostrand Rein	nhold Company,
3	Apparel M Prentice H	Ianufacturing Sewn Product Analysis, Ruth E. Glock & Grace Iall, 2005.	I. Kunz, Pearson
Re	ference Boo	oks	
1	Sewing for	r the Apparel Industry, Shaeffer Claire, Prentice Hall, New Jers	sey, 2001.
2	A New L 1978.	ook at Apparel Mechanization, Technical Advisory Commi	ittee of AAMA,
Re	lated Online	Contents(MOOC,SWAYAM,NPTEL,Websites etc)	
http	os://youtu.be	e/CWpbfn93Lyw	
http	os://youtu.be	e/3zvhniTWhpY	
Co	urse Design	ed By: S.Geetharani	

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	▲ S	S	S	S	S	S	S
CO2	M	S	S	S	M	S	S	S
CO3	M	S	S	S	M	S	S	S
CO4	M	S	S	S	S	S	S	S
CO5	M	M	M	S	M	S	S	S

Course code	23P	WOVEN FABRIC ANALYSIS AND TEXTILE CAD	L	Т	P	C
Core		Practical II	-	-	4	4
Pre-requisite		Basic knowledge about woven fabric	Syllabus Version			21-)22

The main objectives of this course are to:

- 1. Understand the fundamental and principles of weave patterns
- 2. Practice different weave designs and develop draft and peg plan
- 3. Practice to develop weave designs using software

Expected Course Outcomes:

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

CO1	Understand about the constructional parameters of fabric.	K2
CO 2	Analyze different structures of woven fabrics	K4
CO 3	Apply the draft and peg-plan which are required to convert the design into fabric	К3
CO 4	Create design, draft and peg plan for weaving the fabrics	K6
CO 5	Create various weave designs using software	K6

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

Part A 40 hours

- 1. Woven structural analysis –Plain, Twill, Satin, Sateen, Honeycomb, Huck-A Back, Extra thread figuring fabrics: Design, draft, peg plan, denting plan.
- 2. Warp particulars: Material of warp ends per length count, direction of twist, Crimp percentage, cover factor, warp pattern.
- 3. Weft particulars: Material of weft picks per unit length- count, direction of twist, twist per length, Crimp percentage, cover factor and warp pattern.
- 4. Fabric particulars: Total Cover factor, Weight of fabric and thickness.
- 5. Loom requirements: Shedding mechanism, heald count, and count.

Part B 20 hours

- 1. Basics of Raster and vector images, types, image formats and colour concepts.
- 2. Development of dobby designs(part –I) based on interactiveness of weave.
- 3. Development of dobby designs (part –II) based on interactiveness of weave and colour order.
- 4. Development of motifs.
- 5. Development of jacquard designs (part –I) using colour and weave selection concepts shade and thread Balance.
- 6. Development of jacquard designs (part –II) Spot figuring Drop.
- 7. Development of jacquard designs Ogee base.
- 8. Development of jacquard designs Diamond base.
- 9. Development of jacquard designs Sateen base.

Text Book(s)

- Fabric Structure and Design, N.Gokarneshan, New Age International Publishers, New Delhi, 2008.
- 2 Handbook of Weaving, Sabit Adanur, CRC Press, 2000.
- Fabric Forming, B.Hasmukhrai, SSM ITT Co operative stores Ltd, Komarapalayam, 1996.

Reference Books

Principles of Weaving, R.Marks, A.T.C. Robinson, The Textile Institute, 1976

2	Design of Woven Fabrics, I.Blinov & S.Belay, MIR Publishers, Moscow,1988
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://nptel.ac.in/courses/116/102/116102005/
http	os://nptel.ac.in/courses/116/102/116102017/
Cou	urse Designed By : P.Murugan

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	M	M	M	M	S	S
CO2	S	S	M	M	M	M	S	S
CO3	S	S	M	M	M	M	S	S
CO4	S	M	M	M	M	M	S	S
CO5	S	M	M	M	M	M	S	S



Course code	2AP	BASIC APPAREL PRODUCTION PRACTICAL	L	T	P	C
Allied		Practical II	-	-	4	4
Pre-requisite		Basic knowledge about sewing machine and Tools		Syllabus Version		21- 22

The main objectives of this course are to:

- 1. Helps students to understand the fundamentals of sewing.
- 2. Understand and practice the pattern development for various garment components.
- 3. Understand and practice of various stitches, seams , seam finishes and basic bodice development

Expected Course Outcomes:

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

CO1	Understand about the Threading and pedalling procedure of various stitching machine ie SNLS, F/L & O/L	K2
CO 2	Apply the domain Knowledge and develop cloth sample	К3
CO 3	Create the decorative edge finished sample using F/L & O/L machines	K6
CO 4	Create patterns for various garment component parts	K6
CO 5	Create the sample for various garment component parts	K6

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

Part A Basic Stitching Practice 15 hours

- 1. Threading practice in SNLS, Over lock & Flat lock
- 2. Pedaling control practice in SNLS both Paper & Cloth
- 3. Straight & Wavy edge serging practice using over lock machine
- 4. Fold & Top Stitch Practice using Flat lock machine

Part B Seams & Components Developments 45 hours

- 1. Seams super imposed, lapped, bound and flat.
- 2. Basic Seam Finishes Facing, Binding Bias facing
- 3. Fullness darts, pleats, gathers and godets.
- 4. Collars flat, roll, standing and shirt.
- 5. Pockets- patch, bound and side seam.
- 6. Yokes simple, with fullness, releasing fullness, partial and midriff.
- 7. Plackets one piece, two piece, and tailors.
- 8. Sleeves and Cuffs set in, with bodice and sleeveless; cuffs: basic, two piece, and contoured
- 9. Basic Bodice Construction

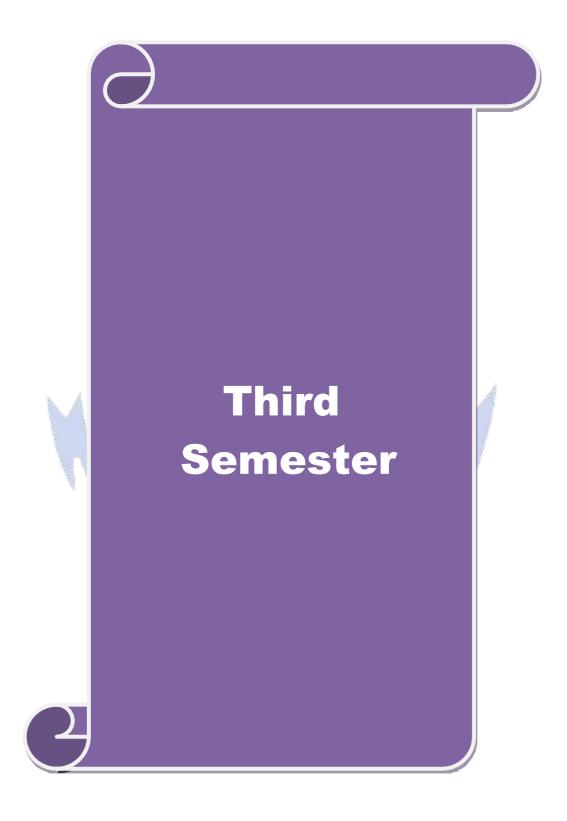
-								
		Total Lecture hours	60 hours					
Tex	Text Book(s)							
1	The Techi Sciences,	nology of Clothing Manufacture, Harold Carr & Barbara lat	ham, Black well					
_			1 11 0					
2	Apparel N 1980	Manufacturing Handbook, Jacob Solinger, Van Nostrand Rei	nhold Company,					
3	Apparel M Prentice H	Ianufacturing Sewn Product Analysis, Ruth E. Glock & Grace Iall, 2005.	I. Kunz, Pearson					
Ref	Reference Books							

Shaeffer Claire, Sewing for the Apparel Industry, 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)
http	ps://youtu.be/HgFhBrykiro
http	ps://youtu.be/Ax6JDDP_6O8
Cot	urse Designed By : S.Geetharani

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	S	M	M	M	S	S	S
CO2	S	S	M	M	M	S	S	S
CO3	S	S	M	M	M	S	S	S
CO4	S	L	L	L	L	S	S	S
CO5	S	L	L	L	L	S	S	S





Course code	33A	TEXTILE COLORATION TECHNIQUES	L	Т	P	C
Core		Paper V	4	-	•	3
Pre-requisite		Basic knowledge about science	Syllabus Version		-	21-)22

The main objectives of this course are to:

- 1. Provide the knowledge about the preparatory process of wet processing.
- 2.Help the students to understand the working principles of various dyeing, printing and finishing machines.
- 3. Enhance the students knowledge in dyeing, printing & finishing process sequences and after treatments.

Expected Course Outcomes:

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

	ı ,	
CO1	Understand the terms and terminologies related to processing sector	K2
CO2	Understand the various dyes ,dyeing and printing process followed in the processing sector	K2
CO3	Apply the domain knowledge to find out the right choice of dyes and process for natural and synthetic textile substrate	К3
CO4	Analyze the various printing styles and methods to find out the right choice for the natural and synthetic textile substrate	K4
CO5	Understand the various textile finishing and their process techniques and latest technologies	K2

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

Unit:1 Introduction to coloration 12 hours

Water: water hardness – types - softening process: ion exchange - sequestering agent methods - terminology & terms related to textile industries (ph, acid, base, oxidation, reduction) – role of textile auxiliaries. Preparatory process sequence for woven & knitted fabrics. Preparatory process: singeing – objectives – types of singeing, desizing – objectives –methods, and scouring – objectives –methods. Bleaching –objectives - types of bleaching agents – Hydrogen Peroxide bleaching process – optical whiteners. Mercerizing –objectives - types.

Unit:2 Dyeing 12 hours

Dyeing: Terminology related to dyeing process - classification of dyes -Dyeing of cotton with reactive and Vat dyes- -Dyeing of synthetic textiles using disperse and acid dyes. Dyeing of Wool & silk textiles & blended textile materials - after treatments - types & principles of different dyeing machines: winch - soft flow Jigger -- cheese and HTHP machines - merits & demerits.

Unit:3 Printing 12 hours

Printing - methods of printing - screen preparation. Styles of printing - direct, resist, discharge, transfer. Print paste ingredients -after treatments. Pigment printing. Garment printing techniques - Fancy printing techniques: flock, Hi Density, Foil, Plastisol, foam, khadi - burnout printing. Digital printing.

Unit:4 Finishing 12 hours

Finishing: objectives of finishing – temporary and permanent finishes. Chemical finish: wrinkle free – softeners – anti microbial – fire retardant. Mechanical finish: calendaring – raising – shearing, Compacting Bio polishing. Stone washing-Application of enzymes in textile processing.

Unit:5		Effluent Treatment	12 hours						
		ef study about ETP- Eco friendly processing techniques - Pollut							
of T	Textile Efflu	ents. Eco Labels & Norms. Introduction to computer colour ma	atching system.						
		Total Lecture hours	60 hours						
Tex	t Book(s)								
1	Technolog	y of Textile Processing, V.A.Shenai, Sevak Publications, 1979	9						
2	Technology of Bleaching and Dyeing of Textile Fibres, R.R.Chakravarthy & S.S.Trivedi, Mahajan Book Publishers, 1979.								
3	Dyeing and chemical technology of textile fibres, E.R.Trotman, Charles Griffin & Co,1985								
Ref	erence Boo	ks							
1	The Bleac	ning and Dyeing of Cotton Material, R.S. Prayag, Weavers Ser	vice, 1983						
2		Processing of Synthetic Fibres and Blends, K.V.Datye & A.A ons, New York.,1982	.Vaidhay, John						
Rel	Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)								
http	https://nptel.ac.in/courses/116/102/116102052/								
http	s://nptel.ac	in/courses/116/104/116104046/							
Cou	Course Designed By : B.Jeyanthy								

Mappi	Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	S	S	S	S		
CO2	S	S	S	S	S	S	S	S		
CO3	S	S	S	M	M	S	S	S		
CO4	S	S	S	M	M	S	S	S		
CO5	S	S	S	M	M	S	S	S		

Course code 33B		KNIT FABRIC MANUFACTURING STUDIES	L	Т	P	C
Core		Paper VI	4	-	-	4
Pre-requisite		Basic skill about textile fiber and yarn	Syllabus Version		2021- 2022	

The main objectives of this course are to:

- 1. Provide the knowledge about the various knitting terms and machines.
- 2. Help the students to understand the working principles of various knitting machines.
- 3. Enhance the students knowledge in Warp, Weft, Flat and Jacquard knit design developments.

Expected Course Outcomes:

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

CO1	Understand the general knitting terms and their representations	K2
CO2	Understand about the various knit structure formation	K2
CO3	Understand about various knitting machines and its working mechanism	K2
CO4	Apply the domain knowledge to develop knit designs	K4
CO5	Analyze the various structures of knit fabrics	K5

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

Unit:1 Introduction to Knitting 12 hours

Different fabric forming methods-Comparison of weaving and knitting-Principles of weft and warp knitting – Comparison of weft and warp knitting – Classification of knitting machines - Yarn passage diagram of a circular knitting machine – Knitting machine elements and description - Knitting cycle of latch needle with sinker.

Unit:2 Weft Knit Stitches 12 hours

Knitting terms and definitions - Principal weft knit stitches - Knit, tuck and miss stitch formation and properties - Representation of weft knit stitches - Study of Basic weft knit structures - Needle gating - Description of circular Rib & Interlock knitting machine - Characteristics of basic weft knit structures - Circular knitting GSM and production calculations.

Unit:3 Jacquard Knitting 12 hours

Jacquard knitting - Needle selection techniques - Pattern jack, Pattern wheel, Pattern drum and Computerized jacquard knitting machines - Brief study on specialty weft knit structures - Auto stripe yarn programming - Elastomeric yarn insertion and effects - Knitted fabric faults - Causes and Remedies.

Unit:4 Flat knitting 12 hours

Flat Knitting – Yarn passage diagram of a flat knitting machine – Mechanical type Flat knitting machine - Needle bed assembly – Racking, Carriage and Cam box arrangement - Transfer Stitch and Drop Stitch – Thread diagram, effects and applications – Introduction to computer controlled Flat knitting machine. Concept of fully-fashioned machines and seamless knit wears.

Unit:5 Warp Knitting 12 hours

Introduction to warp knitting – Warp knitting terminologies – Open lap and closed lap. Basic lapping variations - Detailed study of knitting elements of Tricot and Raschel machines. Knitting action of Tricot and Raschel machines. Comparison of Tricot and Raschel machine. Study of standard two bar warp knit structures and their properties – Lock knit, Satin, Reverse

Total Lecture here Book(s) Knitting Technology, D.B. Ajgaonkar, Universal Publishing Corpra	ours 60 hours								
· · ·									
Knitting Technology, D.B. Ajgaonkar, Universal Publishing Corpra									
	1 Knitting Technology, D.B. Ajgaonkar, Universal Publishing Corpration, 2006.								
Knitting Technology, David.J.Spencer, Pergoman Press, 2014.									
Circular knitting technology, Chandrasekara Iyer, Meisenbach Bamberg publications, 1992.									
rence Books									
Flat Knitting, Dr.Samuel Raz, Meisenbach Bamberg publications,1	991								
Warp Knitting Technology, Dr.S.Raz, Verlag Meilland Textibericht	te publications,1987.								
Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)									
https://nptel.ac.in/courses/116/102/116102056/									
://nptel.ac.in/courses/116/1 <mark>02/116102008/</mark>									
	-								

Mappi	Mapping with Programme Outcomes									
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	S	S	S	S		
CO2	S	A S	S	S	S	S	S	S		
CO3	S	S	S	M	M	S	S	S		
CO4	S	S	S	M	M	S	S	S		
CO5	S	S	S	M	M	S	S	S		

Course code 330°		APPAREL MANUFACTURING TECHNOLOGY II	L	Т	P	С	
Core		Paper VII	4	-	-	4	
Pre-requisite		Basic Knowledge about garment		Syllabus Version		20201- 2022	
		components making procedures	version		2022		

The main objectives of this course are to:

- 1. Provide the knowledge about the fundamentals of pattern making.
- 2. Help the students to understand the stitches, seams and fullness used for apparel making.
- 3. Enhance the student's knowledge in making of garment components.

Expected Course Outcomes:

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

CO1	Understand the knowledge about basics of pattern making and its tools	K2
CO2	Understand the concept of grading and measurement	K2
CO3	Analyze about the various stitches and seam classes	K4
CO4	Analyze about the fullness and its variations applicable to garment	K4
CO5	Create the various garment component parts	K6

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

Unit:1 Fundamentals of Pattern making Techniques 10 hours

Concepts of pattern Making - Different types of pattern making - Principles for pattern drafting – pattern making tools - Concepts of Pattern Grading and its types. Normal figures measurements and its importance – Sequence of taking body measurements – Recording of measurements - Standardization of body measurements for children and adults.

Unit:2 Stitches, Seams & Fullness 14 hours

Stitches & Seams: Definition, stitch classes - Federal classifications, stitch parameters, factors to be considered in the selection of stitches. Stitching defects. Definition, Types of seams - Federal classifications, factors to be considered in the selection of seam, seam finishes and seam defects. **Fullness:** Dart & its types -Tucks and its variations - Pleats and its variations - Flare, godets, gathers, shirring, single, double frills and flounces.

Unit:3 Neckline Finishes, Sleeves & Hemming Techniques 12 hours

Neckline Finishes: Preparation of bias strip, bias facing, bias binding, fitted facing and French binding.

Sleeves: Types and construction of sleeves -plain, puffs, gathered, bell, bishop, circular, kimono, leg-o-mutton, Magyar sleeves and Raglan sleeves.

Hemming Techniques: Definition, types -machine stitched hem and hand-stitched hem.

Unit:4 Yokes & Collars 12 hours

Yokes: Definition –Selection of yoke design, Types and construction of yoke -Simple yoke - yokes with or without fullness, midriff yokes, panel yokes, partial yokes.

Collars: Classification of collars, Types of collars–flat collars (Peter Pan collar, scalloped, flared, puritan collar, sailor collar) convertible collar, shirt collar with stand, Mandarin collar, shawl collar.

Unit·5	D. 1 . 4 . 0 Dl. 1 . 4	10.1
l l'nif•5	Pockets & Plackets	12 hours

Pockets: Types—patch pocket —creating variations, set in pocket-bound pocket, welt pocket, pocket in a seam-front hip pocket, Attaching flap to a patch pocket.

Plackets: Inconspicuous plackets -continuous bound placket, two piece placket, zipper placket -slot seam & lapped seam. Conspicuous plackets -Tailored placket, fly opening -

button and buttonhole method, Zipper method.
Fasteners: Types - Button and buttonholes, Hooks and Eye, Snap buttons, Velcro, Eyelets,
Cords and Rivets.

Fas	asteners: Types - Button and buttonholes, Hooks and Eye, S	Snap buttons	, Velcro, Eyelets,			
Co	ords and Rivets.					
	Total Lect	ure hours	60 hours			
Te	ext Book(s)		00 110015			
1	Apparel Manufacturing - Sewn Product Analysis, Ruth.E. Prentice Hall, 2005.	Glock, Grac	e.I.Kunz, Pearson			
2	Practical Clothing Construction, Mary Mathews, Cosmic Press, Madras, 1986.					
3	Sewing for the Apparel Industry, Claire Shaeffer, Prentice I	Tall Inc, New	v Jersey, 2001.			
			-			
Re	eference Books					
1	Garment Technology for Fashion Designers, Gerry Cooklin 2001.	, Blackwell	Science Ltd.,			
2	System of Cutting, Zarapkar, Navneet publications, Bomb	ay, 2017.				
		St.				
Re	elated Online Contents(MOOC,SWAYAM,NPTEL,Websites 6	etc)				
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http	tps://youtu.be/Ax6JDDP_6O8					
		12				
Co	ourse Designed By: S.Geetharani	45-77				

Mappi	Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8			
CO1	S	S	S	S	M	S	S	S 🙈			
CO2	S	S	S	S	M	S	S	S			
CO3	S	S	S	S	S	S	S	S			
CO4	S	S	S	M	S	S	S	S			
CO5	S	S	S	M	S	S	S	S			

Course code	33P	PATTERN MAKING AND GRADING OF WOVEN AND KNITS PRACTICAL	L	Т	P	C				
Core		-	-	6	4					
Pre-requ	Basic knowledge about patternmaking tools Pre-requisite and properties of textile fabric				_	21- 22				
Course Objectives:										
		ives of this course are to: s to understand the fundamentals of Pattern making & s	G 1:							

- 1. Helps students to understand the fundamentals of Pattern making & Grading.
- 2. Understand and practice the pattern development for various Knitted Garment Styles for Kids.
- 3. Understand and practice the pattern development for various Knitted Garment Styles for

Expected Course Outcomes:

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

CO1	Remember the pattern terms and making tools	K1
CO2	Understand the pattern and grading techniques	K2
CO3	Analyze the domain Knowledge and develop paper pattern	K4
CO4	Create patterns for the various knitted garment styles for kids	K6
CO5	Create patterns for the various knitted garment styles for Adults	K6

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

										2.	All and a second
Part A	1	Draft	the	pattern	and	grade	the	following	garments	for	30 hours
		Kids		In.	V 1	toons					

- 1. Rompers
- 2. Knitted frock
- 3. Kids bloomer
- 4. Overall with full sleeve

Draft the pattern, grade and grade the following Women 30 hours Part B

- 1. High neck T shirt with full sleeve
- 2. Kimono sleeve T shirt
- 3. V Neck T shirt
- 4. Legging
- 5. Night pajama set

Part C Draft pattern and grade the following Men's wear 30 hours

- 1. Basic T shirt
- 2. Raglan T shirt with full sleeve
- 3. Polo T shirt with short sleeve
- 4. Hooded T shirt with front pocket
- 5. Bermuda with side pocket
- 6. Vest RN
- 7. Briefs, Trunks
- 8. Track pant

	Transfer Paris	
	Total Lecture hours	90 hours
Tex	Book(s)	
1	Design and Pattern Making for Stretch Fabrics, Richardson, Fairchild boo 2008.	k publications,
2	Singer Sewing with Knits, Singer, Random House Canada, 1992.	
3	The stretch and sew guide to sewing on knits, Ann Person ,KP Books,199	4.

Reference Books

- Professional Pattern Making for Designers, Jack Harford, Fairchild Publishers, 2003.
- 2 The Theory of Garment Pattern Making, W. H. Hulme, Read Books Publishers, 2011.

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)

https://www.textileschool.com/344/pattern-grading-in-garment-manufacturing/

https://textilelearner.blogspot.com/2014/03/methods-of-garment-pattern-grading.html

Course Designed By: B.Jeyanthy

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8				
CO1	M	S	S	S	S	S	S	S				
CO2	M	S	S	S	S	S	S	S				
CO3	M	M	S	M	M	S	S	S				
CO4	S	S	S	M	M	S	S	S				
CO5	S	S	S	M	M	S	S	S				



Course code	3AP	KNIT FABRIC ANALYSIS PRACTICAL	L	T	P	С
Allied		Practical III	•	-	6	4
Pre-requisite		Basic knowledge of knit fabric manufacturing concepts	Sylla Vers		202 202	

The main objectives of this course are to:

- 1. Helps students to understand the different types of cam setting used in knitting machines.
- 2. Understand and practice the cam arrangements for various knit structures
- 3. Develop cloth sample and analyze the quality parameters of fabrics

Expected Course Outcomes:

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

CO1	Understand about the different cam settings of various knitting machines	K2
CO2	Apply the domain Knowledge and develop cam arrangement for various knit structures	К3
CO3	Create the Knit fabric patterns for Single Jersey and its derivatives	K6
CO4	Produce the Knit fabric patterns for Double Jersey and its derivatives	K6
CO5	Generate the Knit fabric patterns for Mini Jacquard and Auto striper designs	K6

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

90 hours

- 1. Draft the different cam diagrams used in conventional knitting machine.
- 2. Draw the various cams in advanced knitting machine along with different type of stitches.
- 3. Determine the knitted fabric GSM using various methods.
- 4. Development of the following samples:
- 1. Plain
- 2. Pique
- 3. Pearl
- 4. Lacoste
- 5. Twill
- 6. Cross miss
- 7. Two thread fleece
- 8. Mini jacquard design
- 9. Auto striper
- 10. Rib waffle
- 11. Flat back rib
- 12. Interlock
- 13. Ottoman rib
- 14. Electronic Jacquard motif
- 5. Analyze the given knitted fabric sample for the following particulars:
- 1. Course and Wale Density
- 2. Loop length
- 3. Areal Density (GSM)
- 4. Tightness Factor
- 5. Technical graph
- 6. Cam order
- 7. Needle order

		Total Lecture hours	90 hours
Tex	xt Book(s)		
1	Knitting T	echnology, D.B. Ajgaonkar, Universal Publishing Corpration,	2006.

2	Knitting Technology, David .J.Spencer, Pergoman Press, 2014.
3	Circular knitting technology, Chandrasekara Iyer, Meisenbach Bamberg publications,
	1992.
Ref	ference Books
1	Flat Knitting, Dr.Samuel Raz, Meisenbach Bamberg publications,1991
2	Warp Knitting Technology, Dr.S.Raz, Verlag Meilland Textiberichte publications,1987.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://nptel.ac.in/courses/116/102/116102056/
http	os://nptel.ac.in/courses/116/102/116102008/
Coi	urse Designed By: Dr.P.P.Gopalakrishnan

Mappi	Mapping with Programme Outcomes											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8				
CO1	S	S	S	S	S	S	S	S				
CO2	S	S	S	S	S	S	S	S				
CO3	M	M	S	M	M	S	S	S				
CO4	S	S	S	M	M	S	S	S				
CO5	S	S	S	M	M	S	S	S				

Course code	3ZP	TEXTILE COLORATION TECHNIQUES - PRACTICAL L T			Т	P	C		
Skill Based Subject		Skill Based Subject I			-	-	4	3	
Pre-requisite		Knowledge printing pro		dyeing ences	and	•	abus sion	202 202	_

The main objectives of this course are to:

- 1. Helps students to understand the fundamentals of wet processing techniques.
- 2. Understand and practice the coloration techniques
- 3. Understand and practice of various fancy effects using resist style of dyeing

Expected Course Outcomes:

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

CO1	Understand about the fundamentals of wet processing techniques	K2
CO2	Apply the domain Knowledge and develop the cloth sample for dyeing and printing	К3
CO3	Create the dyed sample using natural and synthetic fibers	K6
CO4	Create the printed sample using natural and synthetic fibers	K6
CO5	Create the sample using tie and dye and batik techniques	K6

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

60 hours

- 1. Estimation of water hardness by EDTA method.
- 2. Combined Scouring & Bleaching of grey cotton knitted fabrics and estimation of loss percentage.

2015

- 3. Dye the given cotton sample with natural dyes.
- 4. Dye the given cotton sample with hot brand reactive dyes & H-E dyes.
- 5. Dye the given Silk material with acid / basic dyes.
- 6. Dye the given Acrylic material with basic dyes.
- 7. Dye the given polyester sample using carriers.

https://nptel.ac.in/courses/116/104/116104046/

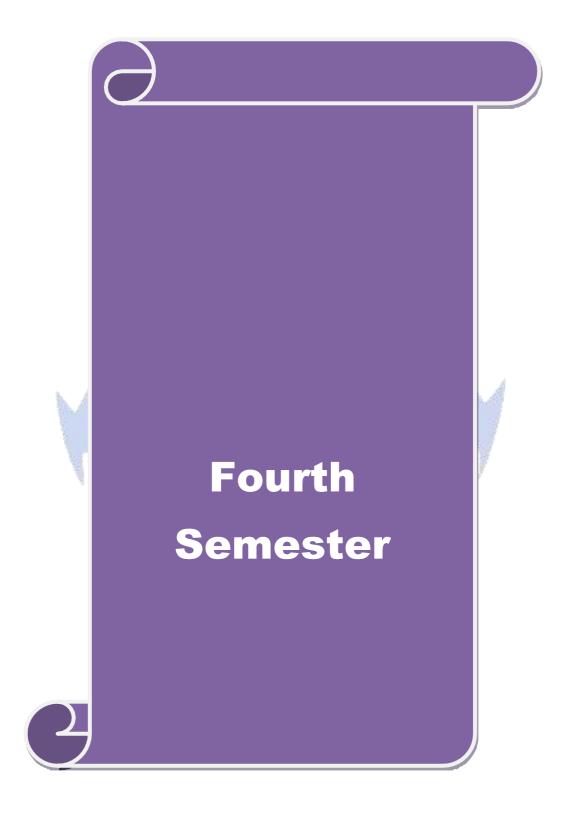
- 8. Dye the given fabric for the given pattern using Tie & Dye Technique.
- 9. Develop a batik motif and print on the given sample.
- 10. Prepare the print paste with pigment colour and print on the given fabric.
- 11. Print the given fabric with reactive dyes by discharge Style.
- 12. Prepare the print paste with reactive dyes and print on the given fabric by discharge style

			300
		Total Lecture hours	60 hours
Tex	xt Book(s)	SALITANT SALVE	
1	Textile Co	oloration and printing, Warren .S. Perkins, Carolina Academic P	ress, 1996
2	_	gy of Bleaching and Dyeing of Textile Fibres, R.R. C i, Mahajan Book Publishers, 1979.	hakravarthy &
3	Dyeing an Co,1985	nd chemical technology of textile fibres, E.R.Trotman, Cha	rles Griffin &
Re	ference Boo	oks	
1	The Bleac	hing and Dyeing of Cotton Material, R.S. Prayag, Weavers Serv	rice, 1983
2		Processing of Synthetic Fibres and Blends, K.V.Datye & A.A. Sons, New York., 1982	.Vaidhay, John
	whey & S	3011S, New 101K.,1982	
	101		
Re	lated Online	e Contents(MOOC,SWAYAM,NPTEL,Websites etc)	
http	os://nptel.ac	.in/courses/116/102/116102052/	

Course Designed By: B.Jeyanthy	

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	M	M	S	M	M	S	S	S
CO4	S	S	S	M	M	S	S	S
CO5	S	S	S	M	M	S	S	S





Course code	43A	APPAREL MERCHANDISING AND TRADE DOCUMENTATION	L	Т	P	С
Core		Paper VIII	4	-	-	3
Pre-requisite		Basic Knowledge about various departments and their role in an apparel business	•	abus sion	202 202	

The main objectives of this course are to:

- 1. Provide the knowledge about the apparel merchandising concepts.
- 2. Help the students to understand the process flow and merchandising procedures of apparel sector.
- 3. Enhance the student's knowledge in export procedures.

Expected Course Outcomes:

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

CO1	Understand about the merchandising concepts	K2
CO2	Understand about the various process in garment sector	K2
CO3	Apply the domain knowledge to give right merchandising solution in various activities of apparel sector	К3
CO4	Understand the export procedures required for apparel business	K4
CO5	Apply the EXIM knowledge for maintain proper trade documentation policies	K5

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

Unit:1 Merchandising Concepts 12 hours

Merchandising: Introduction, Meaning- Apparel Merchandising – Concepts of "Six Rights – Organisation structure of an apparel industry – Classification of Exporters - Rating or Grading of export houses – Classification of buyers – Export merchandising and retail merchandising – Company profile and its contents. Types of merchandiser – Functions of a merchandiser – Essential requisites of a good merchandiser – Vendor sourcing, evaluation and development – Global sourcing – Vendor nomination by buyers – Reasons for vendor nomination.

Unit:2 Process Flow of Garment Sector 12 hours

Process flow in apparel industry – Buyer sourcing & communication – Enquiry – Order confirmation – order review and its importance – Planning & programming: Master planning, Scheduling or route card – Factors for route card - programming for yarn, knitting, dyeing, stitching, sampling, accessories – Samples: Meaning & importance – Types of samples – expedition of samples.

Unit:3 Inspection and Approval Procedures 12 hours

Inspection and its types – Testing – Check points before cutting - Pilot run or trial run and its importance – Approvals - Types of approvals – Shipping marks – Final inspection procedures – Self, Second and Third party inspection - Effective expedition procedures.

Unit:4 Export Documents 12 hours

Order sheet and its contents – Packing list and its contents – Document formats: order sheet, packing list, invoice, inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance – Claims and reasons for claims - Factory audits – Buyers code of conducts.

Unit:5 Export Procedures 12 hours

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

Coı	mmercial Invoice. Pre-shipment & post-shipment finance, insurance, payr	nent instruments,
fore	eign exchange regulations, common errors in export documentation.	
	Total Lecture hours	60 hours
Tex	kt Book(s)	
1	Apparel Merchandising-An integrated Approach, M. Krishnakumar, Abi Publications, 2010.	shek
2	Apparel Merchandising, A. Jeremy, David L.Wilson, & Roseau, Fairchil 2014.	ld Publications,
3	Export Import Handbook, Ajay Srivastava, Business Data info Publishin 2015.	ng Co. Pvt. Ltd,
Ref	ference Books	
1	Apparel Merchandising, Robin Mathew, Book Enclave Publishers, 2008	
2	Inside the Fashion Business, Kitty G. Dickerson, Pearson Publications, 2	2002.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)	
http	os://garmentsmerchandising.com/	
http	os://www.fibre2fashion.com/ <mark>industry-article/5743/merchandising-in</mark> -an-ap	parel-industry
Coi	urse Designed By: Dr. M.Krishnakumar	

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	M	M	S 🛵	S	S	S	S	S A
CO4	S	M	M	M	M	S	S	S
CO5	S	M	M	M	M	S	S	S

Course code	43B	APPAREL TESTING AND QUALITYCONTROL L T		P	C	
Core		Paper IX	5	-	-	4
Pre-requisite		Basic knowledge of textile fiber, yarn, fabric and their properties		abus rsion	-)21-)22

The main objectives of this course are to:

- 1. Provide the knowledge about the raw materials and garment testing methods.
- 2. Help the students to understand the working principles of various testing equipments.
- 3. Enhance the students knowledge in inspection procedures and quality control techniques.

Expected Course Outcomes:

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

CO1	Understand about the various raw materials used in apparel and their testing procedure	K2
CO2	Understand the working principles of various testing equipments	K2
CO3	Understand about various types of inspection procedures	K2
CO4	Analyze the various structural properties of fabrics and garments	K4
CO5	Analyze about the quality control techniques	K4

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

Unit:1 Yarn And Fabric Quality Evaluation

15 hours

Yarn testing - linear density, twist and tensile strength. Fabric testing - tensile, tear & bursting strength, abrasion resistance, pilling, drapability, stiffness and crease recovery testing. Yarn and fabric faults – causes and remedies.

Unit:2 Apparel Testing

15 hours

Seam strength testing, dimensional stability, spirality, snap/button pull strength testing and zipper testing, evaluation of interlining quality. Wash care labelling

Unit:3 Raw material And In-Process Inspection

15 hours

Inspection – importance, functions. Fabric inspection systems- 4 point system &10 point system. Quality parameters and their control in pattern making, cutting and sewing. Packing quality, Quality control of trims and accessories, instrumental shade sorting.

Unit:4

Final Inspection

15 hours

Acceptable Quality Level (AQL) standards- sampling plans, levels, Garment defects, final inspection procedure, tolerances and quality specifications for finished garment – shirt, pant, T-shit and women's skirt.

Unit:5

Quality Control

15 hours

Total quality management, statistical process control, seven tools - cause and effect diagrams, check sheet, control chart, flow chart, histogram, Pareto chart and scatter diagram. ISO-9001 implementation in apparel industry.

Text Book(s)

Total Lecture hours

75 hours

Physical Testing of Textiles, B.P.Saville, Wood head Publishing Ltd, 1999.

2	Managing Quality in the Apparel Industry, Pradip V Mehta, New age international publishers, 1998.				
3	Quality Assurance for Textiles and Apparel, Sara J. Kadolph, Fairchild publications, 2007.				
Ref	ference Books				
1	Testing and Quality Management, V.K.Kothari, IAFL Publications, 1999				
2	Principles of Textile Testing, J.E.Booth, CBS Publishers & Distributors Pvt Ltd, 2018.				
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)				
http	os://nptel.ac.in/courses/116/102/116102029/				
http	os://nptel.ac.in/courses/116/102/116102049/				
Coi	urse Designed By : Dr.K.J. Sivagnanam				

Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
CO1	S	S	S	S	S	S	S	S	
CO2	S	S	S	S	S	S	S	S	
CO3	M	M	M	M	S	S	S	S	
CO4	S	M	M	M	M	S	S	S	
CO5	S	M	M	M	M	S	S	S	

Course code	43C	APPAREL COSTING TECHNIQUES	L	T	P	C
Core		Paper X	4	-	-	4
Pre-requisite		Basic mathematical skill and knowledge about raw material cost	•	abus sion	202 202	

The main objectives of this course are to:

- 1. Provide the knowledge about the elements of costing.
- 2. Help the students to understand the budgeting for apparel sectors and cost estimation of various process.
- 3. Enhance the students knowledge in achieving manufacturing cost and pricing techniques.

Expected Course Outcomes:

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

CO1	Understand about the elements and principles of costing	K2
CO2	Understand about the budgeting process of an apparel sector	K2
CO3	Apply the domain knowledge to estimate the various process cost	К3
CO4	Analyze the various process cost to determine the manufacturing cost	K4
CO5	Apply the domain knowledge to estimate the price for retail product	К3

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

Unit:1 Costing Principles for apparel sector 12 hour

Principles of costing - requirements of good costing system - cost unit - types of costs - Elements of cost - direct material cost - direct expenses - direct wages - indirect materials - indirect expenses - indirect labor - overheads - - prime cost - work cost - cost of production - total cost. INCO terms & its relationship with costing

Unit:2 Budgeting for apparel sector 12 hours

Budgeting: The budgeting process: Budgeting principles for the apparel industry- Fixed vs Variable budget - Master budget-laminations of budgets- any justification effort -Planned Vs Actual Cost.

Unit:3 Cost estimation for various process 12 hours

Cost estimation of yarn, knitted fabric, dyeing, printing & finishing. Woven Fabric Costing: fabric types, yarn consumption, weaving price Cost estimation for cutting, stitching, checking, packing, forwarding, shipping, and insurance.

Unit:4 Manufacturing Cost 12 hours

Estimation of factory cost for Woven & Knitted - vest, briefs, shorts, t-shirts, pajamas, children's wear, ladies wear, Woven Shirt, Woven Tops & Bottom. Various factors to be considered in costing for domestic products & international products.

Unit:5	Pricing for apparel Products				
Determining P	ricing of apparel products: Price elasticity of demand and s	supply, sample			
costing-margin	al revenue and marginal cost, cost plus pricing methods;, Fu	ll cost pricing,			
conversion cos	st pricing, differential cost pricing ,variable cost pricing, dire	ect cost pricing			
1 ' .' C	, C 1 1 , A !.				

derivation of cost of apparel products-woven/knits.

Total Lecture hours 60 hours

Tex	xt Book(s)
1	Apparel Costing - A functional Approach, M.Krishnakumar, Abishek Publications, 2011.
2	Cost Accounting, R.S.N. Pillai & V. Bagavathi S, Chand and Company Ltd, 2008.
3	Cost Accounting, S.P.Jain & KL.Narang, Kalyani Publishers, 2014.
Re	ference Books
1	Apparel Costing, Andrea Kennedy & Andrea Reyes, Abishek Publications, 2020.
2	Costing for the Fashion Industry, Michael Jeffrey, Nathalie Evans, Berg Publishers,
	2011.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://www.onlineclothingstudy.com/2019/05/garment-costing-and-pricing-strategies.html
http	os://www.textileschool.com/181/garment-costing/
Co	urse Designed By: Dr.M.Krishnakumar

Mapping with Programme Outcomes								
COs	PO1	PO ₂	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	M	M	M	S	S	S	S	S
CO4	M	M	M	S	S	S	S	S
CO5	M	M	M	S	S	S	S	S

Course code	43P	GARM	ENT CON		ON	L	Т	P	C
	431		KNIT				_		
Core		Pattern	Practica		and	-	-	5	4
Pre-requisite	Pre-requisite Pattern making, Cutting and Syllabus Version Sewing process sequence Version 2021								
Course Object	tivoc•	Sewing	process seg	uence		vers	1011	20	144
The main object		nurse are to).						
1. Helps studer				sewing.					
2. Understand				_	kids.				
3. Understand			ous garmer	t styles for	adults	•			
Expected Cou									
On the success:									
	nd various stite							ear	K2
2 Apply the	e domain Knov	vledge dur	ing the dev	elopment o	f knitw	vear sam	ples		K3
3 Create va	rious knitted g	arment sar	mple for kid	s wear					K6
4 Create th	e various knitte	ed garment	t samples fo	r Men and	Wome	en wears	5		K6
5 Evaluate	the knitted san	nple for its	fit and qua	lity of cons	structio	n			K5
K1 - Remembe	er; K2 - Unders	stand; K3 -	Apply; K	- Analyze	; K5 -	Evaluate	e; K6	– Crea	te
				485					
Part A		Construc	t the Follo	wing Kids	Wear	de		15 l	ours
1. Knitted from									
2. Kids bloom				-					
3. Overall with	h full sleeve						7		
Part B	C	onstruct t	h <mark>e Fo</mark> llowi	ng Women	's Wea	ar		30 1	nours
4. High neck	T shirt with ful				199	1-0			
5. Kimono sle	eeve T shirt		- W A	die	And				
6. Legging	E.	A 1			- 15				A.
7. Night pajar	na set	1	W.	the to	22	-7	100		
Part C	-	Construc	t t <mark>he foll</mark> ov	ing Men's	Wear		- 100	30 1	ours
8. Basic T shi		Construc	t the follow	ing Mich s	Wear	1	200	30 1	lours
	nirt with full sl	eeve		- ALE			and A	15	
10. Polo T shir							A		
11. Hooded T s		* 1000	100			-46		7	
12. Bermuda w	ith side pocket		- W	Parameter St.	and the same	Carlo Maria	Carlotte .		
13. Briefs14. Track pant				OF LINES					
14. Hack paint			-	Total	Loctur	e hours		75 I	1011FC
Toyet Docl-(-)				1 Utal	Lectur	e nours	'	13 1	iours
Text Book(s)	d Pattern Maki	na for Stra	toh Fohrios	Dichardee	n Foir	rahild ha	ol 2	008	
	wing with Knit					icilia be)OK, 2	008.	
	h and Sew Gui					earson P	ublica	ation. 2	000.
			-0 3m Tame	, 1 01	, - \			, 2	
Reference Boo	oks								
1 Clothing C	Construction, C	lara M Bro	own, Read	Books Publ	lishers.	, 2011.			
	Construction: A						d fash	ion, Pe	g
couch, For					_				-
	t chaper i ublis	ning, 2015	5.						
Related Online	-								

https://youtu.be/4_FRV8flGi0	
https://www.sciencedirect.com/topics/engineering/garment-construction	
Course Designed By :B.Jeyanthy	

Mappi	Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	S	S	S	S		
CO2	S	S	S	S	S	S	S	S		
CO3	M	S	S	S	L	S	S	S		
CO4	M	S	S	S	L	S	S	S		
CO5	M	S	S	S	L	S	S	S		



Course code	4AP	APPAREL TESTING AND QUALITY CONTROL PRACTICAL	L	Т	P	C
Allied	<u> </u>	Practical IV	-	-	5	4
Pre-requisite		Knowledge about quality parameters of textile fiber, yarn and fabric	Sylla Vers		202 202	

The main objectives of this course are to:

- 1. Helps students to understand the fundamentals of textile testing.
- 2. Understand and practice the various testing procedures from fiber to garments.
- 3. Understand and practice to handle various textile testing equipments.

Expected Course Outcomes:

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

CO1	Understand to handle the different textile testing equipments and maintenances	K2
CO2	Understand the domain Knowledge to operate the textile testing equipments	K3
CO3	Evaluate the quality of fiber and yarn and record the findings	K5
CO4	Evaluate the quality of fabric and record the findings	K5
CO5	Evaluate the quality of garment and record the findings	K5

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

75 hours

- 1. Determination of count of yarn using wrap reel & weighing scale.
- 2. Determination of lea strength & CSP using lea strength tester.
- 3. Determination of yarn count from fabric swatch using Beesley balance.
- 4. Determination of twist of single yarn using electronic twist tester.
- 5. Fabric Analysis for determining Weight, CPI, WPI, SL, CL & Yarn Count.
- 6. Identification of Fiber using microscope and by chemical test.
- 7. Analysis of Blend composition of given fabrics.
- 8. Determination of thickness of fabric using fabric thickness gauge.
- 9. Determination of CRA of fabric using crease recover tester.
- 10. Determination of Fabric Pilling Using ICI Pill Box
- 11. Determination of Fabric Bursting Strength.
- 12. Determination of color fastness of given sample to washing by using launderometer.
- 13. Determination of color fastness of given sample to rubbing by using crock meter
- 14. Determination of color fastness of given sample to perspiration by using perspirometer
- 15. Determination of dimensional stability % of a given fabric / garment to washing.

		Total Lecture hours	75 - hours
Tex	kt Book(s)		
1	General Pr	rinciples of Testing, Bureau of Indian Standards, New look Publ	ications, 2018.
2	AATCC T	extile Testing Materials Educational Resources, AATCC Public	cations,
	Atlanta, 20	019.	
3	Principles	of Textile Testing, J.E.Booth, CBS Publishers & Distributors Pv	vt Ltd, 2018.
Ref	ference Boo	oks	
1	Testing an	d Quality Management, V.K,Kothari, IAFL Publications, 1999	
2	Textiles-Y	Tarns, Fabrics, and General Test Methods (ANNUAL BOOK OF	ASTM
	STANDA	RDS VOLUME 0701), ASTM Intl, 1999.	

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
https://nptel.ac.in/courses/116/102/116102049/
https://nptel.ac.in/courses/116/102/116102029/
Course Designed By: T.Sathishkumar

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	M	S	S	S	L	S	S	S
CO4	M	S	S	S	L	S	S	S
CO5	M	S	S	S	1 L 199	S	S	S



Course code	4ZP	COMPUTER AIDED PATTERN DESIGNING - PRACTICAL		Т	P	С
Skill Based Subject		Skill Based Subject II	-	-	5	3
Pre-requisite		Basic knowledge to operate computer tools and terms related to garment patterns	Sylla Vers		202 202	

The main objectives of this course are to:

- 1. Helps students to understand the basic concept about software.
- 2. Understand and practice to use various tools and techniques for pattern development.
- 3. Understand and practice to develop patterns for various garment styles (Kids, Men & Women)

Expected Course Outcomes:

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

CO1	Understand about the tools and techniques of software	K2
CO2	Apply the domain Knowledge and develop pattern on screen	К3
CO3	Analyze the fit of the pattern on computer screen	К3
CO4	Create the graded patterns for different size scale	K6
CO5	Create the marker plan and find out the efficiency	K6

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

75 hours

CAD software is used to practice the following on the styles mentioned,

- Create Pattern on computer screen, adding details to patterns.
- Saving, extracting & editing patterns from stock library of Patterns.
- Grading patterns on different size scale.
- Making Marker plan for cutting fabrics.
- Estimating lay length and calculating marker efficiency.
- Fit analysis of the given pattern.

Styles

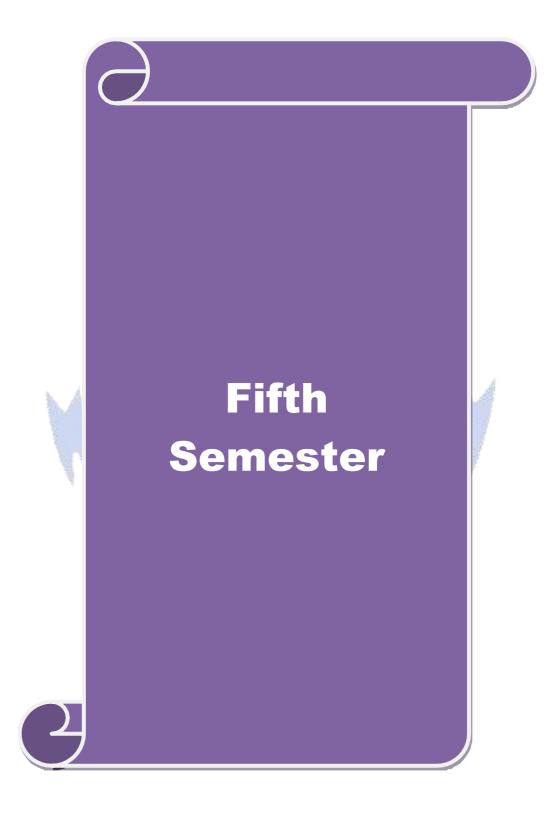
- 1. Men's Basic T Shirt
- 2. Raglan with Pocket
- 3. Men's Polo T Shirt
- 4. Men's Trouser
- 5. Men's T-Shirt with hood
- 6. Men's Inner Garment Vests RN / RNS
- 7. Brief
- 8. Ladies Skirt
- 9. Women's Nightwear
- 10. Kid's Wear Romber
- 11. Kid's Wear A Line frock
- 12. Children's Suits And Pyjama

	Cinital of S with 1 mile 1 jjunite							
	Total Lecture hours 75 hours							
Tex	Text Book(s)							
1	Computer Aided Pattern Design Product Development, Alison Beazley, Terry Bond,							
	Wiley-Blackwell, 2003.							
2	Pattern Cutting for Clothing using CAD, M.Stott, Woodhead Publishing, 2012.							
3	A Text Book Of Computer Aided Apparel Fashion Designing & Production Pattern							
	Making, Meenu Srivastava, Himanshu Publications, 2011.							

Ref	Reference Books						
1	Automation in Garment Manufacturing, Rajkishore Nayak, Woodhead Publishing, 2017.						
2	Computerized Patternmaking for Apparel Production, Laura Nugent, Fairchild Books,						
	2016						
Rel	lated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)						
http	ps://youtu.be/n-tWecPMIQc						
http	ps://youtu.be/YKbwio4ocIE						
Cor	urse Designed By: P.Murugan						

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	M	S	S	S	M	S	S	S
CO4	M	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S





Course code	53A		L INDUSTRIAL	\mathbf{L}	Т	P	C	
Core		ENGINEERING I						
Core	Verseelsdas		Paper XI	5	- aha	-	3	
Duo moquisito		about various p			Syllabus Version 202		21-2022	
Pre-requisite Course Object		dopted in gar.	ment production	V C1	51011			
The main object		virgo era to:						
			action control and syst	em				
			production planning		eduling			
±		1.1	al management for an		·			
Expected Cou								
On the success:	ful completion	of the course, st	tudent will be able to:					
CO1 Unde	erstand the pre	production func	tions and various prod	luction	systems	S	K2	
CO2 Unde	rstand about th	ne apparel produ	ction planning and scl	hedulin	g proce	SS	K2	
CO3 Unde	rstand the kno	wledge of mate	erials management pro	cess re	quired 1	for	K2	
appai	el sector							
			nd out right production				K3	
			nine the resource for a	a factor	y such a	as	K4	
mate	rial and man po		T74 A 1 T7F	Б 1	. 17.6			
KI - Remembe	r; K2 - Unders	stand; K3 - Appl	y; K4 - Analyze; K5	- Evalua	ate; Ko	– Crea	ite	
Unit:1		Productio	on Control	75 × 75	k.	15 1	hours	
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Text	t Book(s)
1	Industrial Engineering in Apparel Production, V. Ramesh Babu, Elsevier Science &
1	Technology, 2017
2	Apparel Manufacturing: Sewn Product Analysis, R.E. Glock & G.I.Kunz, Prentice Hall, New York, 1995.
3	Industrial Engineering Handbook, William K Hodson & Maynard's, Mc Graw-Hill,
3	Inc., New York, 1992.
Refe	erence Books
1	Materials Management in Clothing Production, David J Tyler, Prentice Hall, New Jersey, 1991.
2	Fashion design and Product development, Harold Carr, John Wiley and Sons Inc., New York, 1991.
Rela	ted Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
https	s://youtu.be/tXNwpcFU5HQ
https	s://youtu.be/_ZqYZXMp-eY
Cou	rse Designed By: Arundhati Ghoshal

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	M	S	S	S	S	S	S
CO2	M	S	S	S	S	S	L	S
CO3	S	A S	S	S	M	S	L	S
CO4	S	S	M	S	M	S	S	S
CO5	S	S	M	S	S	S	S	S

Course code	53B	TOTAL QUALITY MANAGEMENT L T		P	С	
Core		Paper XII	4	-	-	3
Pre-requisite		Knowledge about quality terms		Syllabus Version		21- 22

The main objectives of this course are to:

- 1. Provide the knowledge about the principles of TQM, statistical quality Control which are vital for apparel sector.
- 2. Help the students to understand the sampling plans and its risk factor for quality control process.
- 3. Enhance the student's knowledge in ISO standards & EMS.

Expected Course Outcomes:

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

CO1	Understand about the concepts of TQM, 5s philosophy and quality circles used in an apparel sector	K2
CO2	Understand the knowledge about SQC used in apparel inspection process	K2
CO3	Apply the domain knowledge to find out sampling plan and its risk factor	К3
CO4	Analyze about the various ISO standards essential for an apparel industry	K4
CO5	Apply the Environmental Management System in an apparel sector	K4

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

Unit:1 Principles of TQM

12 hours

Quality – Evolution of Quality management – Quality Function and Quality Planning – Basic concepts of Total Quality Management (TQM) – Principles of TQM – Important Phases of TQM – Quality Trilogy – Four pillars of TQM – PDCA cycle & PDSA cycle – Kaizan concept – 5'S Philosophy – Quality Circles.

Unit:2 Introduction to Statistical Quality Control

12 hours

Statistical Quality Control (SQC): Definition – SQC techniques – Frequency distributions: Discrete and Continuous – Measures of Central tendency: Mean, Median & Mode – Measures of dispersion: Range, Mean Range, Mean Deviation, Percentage Mean Deviation, Standard Deviation, Coefficient of Variation – Normal distribution – Binomial distribution – Poisson distribution.

Unit:3 Control Charts 12 hours

Control charts: concepts and uses – Control limits – Control charts for Variables and Attributes: X Charts – R chart – P chart – NP chart – C chart – Acceptance sampling – Types of sampling plans: Single, Double and Multiple Sampling plans – OC curves – AQL and LTPD – Sampling errors and sampling risks – Producers risk and Consumers risk.

Unit:4 ISO Standards 12 hours

ISO 9000 Standards: Meaning & Definition – ISO 9000 family of standards – Elements of ISO – Benefits– Study on ISO 9001:2008 Guidelines and Standard Clauses – Implementation Procedures and requirements for ISO 9001:2008 system – Quality Manual and its contents – Accreditation and Certification agencies – Quality audit – Types of quality audit – Audit procedure – Requirements and characteristic of a Quality auditor.

Unit:5	Environmental Manag	12 hours		
Environmental	Management System (EMS)	Magning & Definition	E1	amonts of EMS

Environmental Management System (EMS) – Meaning & Definition – Elements of EMS – Benefits of EMS – Environmental Policies – Implementation of ISO 14000 – Study on other management systems: SA8000, OHSAS 18000, WRAP.

Total Lecture hours 60 hours

Te	xt Book(s)
1	Total Quality Management, S.Bhaskar, Anuradha Publications, 2011.
2	Total Quality Management, K.Shridhara Bhat, Himalaya Publishing Corporation, 2010.
3	Handbook of Total Quality Management, Armstrong, Jaico Publications, 2001.
Re	ference Books
1	Statistical Methods, Dr. S.P.Gupta, Sultan Chand & Sons, 2011.
2	Quality Control Handbook, J.M,Juran, McGraw Hill Inc,1988.
Re	lated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://nptel.ac.in/courses/110/104/110104080/
http	os://onlinecourses.swayam2.ac.in/imb19_mg22/preview
Co	urse Designed By: Dr.K.J.Siyagnanam

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	M	S	S	S	S	S	S
CO2	M	L	S	S	S	S	S	S
CO3	L	L	S	S	S	S	S	S
CO4	L	L	S	S	S	S	S	S
CO5	L	L	S	S	S	S	S	S

Course of	code	53 C	TECHNICAL TEXTILE AND FUNCTIONAL APPAREL	L	T	P	C
Core			Paper XIII	4		_	3
			Knowledge about latest innovations	Sylla	hus	20	21-
Pre-requ	isite		in textile and apparel sectors	Vers)22
Course C	Objecti	ives:	**				
		tives of this c					
			out the technical fiber and yarn.				
-			stand the various application of technical to		-		
		rse Outcomes	wledge in functional apparel design, produ	ction	and ut	ınzatı	on .
			n of the course, student will be able to:				
			vledge about technical textile and their app	licatio	n		K2
			e technical fiber, yarn and fabric manufact			CC	K2
			nowledge to design the functional garments		proce	33	
	117		2 2		functi	on o1	K3
	armen		s production parameters needed for mal	King i	uncu	onai	K4
			epts to develop performance oriented produ	ucts			K6
			estand; K3 - Apply; K4 - Analyze; K5 - Ev		: K6 -	- Crea	
		, 112 Onder	11ppiy, 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		, 110		
Unit:1		100	Introduction to technical textiles			12 ł	our
Introduct	ion to	Techni <mark>cal tex</mark>	ktiles, definition and scope of technical tex	ktiles,	devel	opmei	nts ir
			ide, polyester, viscose rayon, polyolefin, h				
			lication of technical textiles.	0 1	1.437		
	1		()	į.	3		
Unit:2		A	Functional apparels& medical textile				
	al anna				7		ours
		10 DELTAN	& engineering of functional clothing, req		ents,		our
Medical	istics:	structural, ae	& engineering of functional clothing, requesthetic, functional, comfort and fit for cloth	ning.	F	smart	
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Healthcar Unit:3 Selection	istics: textile: re and of ma	structural, aes Materials us Hygiene prod aterials, requi	& engineering of functional clothing, requirements and application. Requirements and application. Protective wear	ning.	tion.	smart Γextile	es foi
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Unit:3 Selection electrical Unit:4 Sportswe managem	of ma and ra	Materials us Hygiene prod aterials, requi diation prote	& engineering of functional clothing, requirements, functional, comfort and fit for clothed and classification. Requirements and adducts. Protective wear rements and functions of flame resistant, ctive clothing. Sports wear unctional fibers, yarns and fabrics suitable	chemi	ical, r	Textile 12 h nechan	nours nours Swea
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Unit:3 Selection electrical Unit:4 Sportswe managem adaptability Unit:5 Smart filt properties application Unit:6	of ma and ra ar request fo ity.	Materials us Hygiene proc Atterials, requidiation prote Direments - fur sports applications Applications Applications Applications Applications	& engineering of functional clothing, requirements, functional, comfort and fit for clothed and classification. Requirements and aducts. Protective wear rements and functions of flame resistant, ctive clothing. Sports wear Inctional fibers, yarns and fabrics suitable ication. Footwear Clothing: Fabric requirements and intelligent textiles Photo adaptive fibres, Chameleon fibres in textiles and apparels. Phase change mapplymers and properties. Stimuli sensitive Contemporary Issues	chemics for sprement, Conterials	portsw ts, fin ductivs: pro	12 h rear- S rishing 12 h re fib- perties	nours nours Swea s nours res – s and
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Unit:3 Selection electrical Unit:4 Sportswe managem adaptability Unit:5 Smart filt properties application Unit:6	of ma and ra ar request fo ity.	Materials us Hygiene proc Atterials, requidiation prote Direments - fur sports applications Applications Applications Applications Applications	& engineering of functional clothing, requirements, functional, comfort and fit for clothed and classification. Requirements and aducts. Protective wear rements and functions of flame resistant, ctive clothing. Sports wear Inctional fibers, yarns and fabrics suitable ication. Footwear Clothing: Fabric requirements and intelligent textiles Photo adaptive fibres, Chameleon fibres in textiles and apparels. Phase change mapplymers and properties. Stimuli sensitive Contemporary Issues	for sprement	portswats, finductives: progent t	12 h rear- S rishing 12 h re fib- perties	nour Swea nour res – s and s.

Text	Book(s)
1	Handbook of Technical Textiles, A. R Horrock, S.C Anand, Wood head Publishing,
	2000.
2	Handbook of Industrial Textiles, S.Adanur, Technomic Publication, 2001.
3	Textiles for Sportswear, Roshan Shishoo, Woodhead Publishing, 2015.
Refer	rence Books
1	Design and manufacture of Textile Composites, M.C Kanna, Hearle O Hear, Textile process, Textile Institute, Manchester, 2004.
2	Handbook of Medical Textiles, V Bartels, Woodhead Publishing, 2011.
Relat	ed Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
https:	//nptel.ac.in/courses/116/102/116102057/
https:	//www.classcentral.com/course/swayam-testing-of-functional-and-technical-textiles-
1305	
	4-15-841-70-7
Cours	se Designed By: B.Jeyanthy

Mappi	Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	M	S	S	S		
CO2	S	S	S	M	S	S	S	S		
CO3	S	_A S	S	M	M	S	S	S		
CO4	M	M	M	S	S	S	S	S		
CO5	M	M	M	S	S	S	S	S		

Course code	53P	COMPUTE ART F	L	T	P	C		
Core			Practical V				6	3
Pre-requisite		Knowledge operating tool	about s and creati	computer ve skill	Sylla Vers			21-)22
Carriage Object								

The main objectives of this course are to:

- 1. Helps students to understand the various design software relevant fashion designing.
- 2. Understand and practice to develop various garment, accessory, logo and motif designs.
- 3. Understand and practice to develop garment technical pack for apparel production sectors.

Expected Course Outcomes:

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

CO1	Understand and practice in various designing software and tools	K2
CO2	Apply the domain Knowledge and develop motif and logo designs for garments and brands	К3
CO3	Create garment flat sketches for Kids, Women's and Men's wears using relevant software	K6
CO4	Create the Accessory designs using relevant software	K6
CO5	Create the Garment technical pack for production process using software	K6

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

90 hours

- 1. Introduction to software's of Fashion CAD Laboratory.
- 2. Computer aided embroidery designs.
- 3. Logo designing.
- 4. Digital designing of different styles of necklines, sleeves, skirts and collars.
- 5. Designing different styles of apparel for men.
- 6. Designing different styles of apparel for women.
- 7. Designing different styles of apparel for children.
- 8. Designing different types of accessories.
- 9. Develop a Tech Pack design for basic garment styles.

	Total Lecture hour	s 90 hours
Text B	Book(s)	•
1	CAD for Fashion Design and Merchandising, Stacy Stewart Smi	th, Bloomsbury
	Publishing India Private Limited, 2013.	
2	Adobe Photoshop for Fashion Design, Susan Lazear, Pearson Publica	ations, 2007.
3	Fashion and Textile Design with Photoshop and Illustrator,	Robert Hume,
	Bloomsbury Visual Arts, 2019.	
Refere	ence Books	
1	Adobe Illustrator Classroom in a Book, Brian Wood, Adobe Press, 2	2019.
2	Adobe Photoshop Classroom in a Book, Andrew Faulkner, Adobe Pr	ess,2019.
Relate	d Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)	

https://youtu.be/Py0dlOAUfp4	
https://youtu.be/1_EN9sh9MnA	
Course Designed By: B.Jeyanthy	

Mappi	Mapping with Programme Outcomes									
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	M	M	S	S	S	S	S	S		
CO2	M	M	S	S	S	S	S	S		
CO3	M	M	S	S	S	S	S	S		
CO4	M	M	S	S	S	S	S	S		
CO5	M	M	S	S	S	S	S	S		



Course code	5ZP	DESIGN PROCESS & PRODUCT DEVELOPMENT I - PRACTICAL	L	T	P	С			
Skill Based Su	bject	Skill Based Subject III	-		5	3			
Dra raquisita		Knowledge about designing, pattern	Syll	abus	20	21-			
Pre-requisite		making and construction		Version		2022			
Course Objectives:									

The main objectives of this course are to:

- 1. Helps students to understand the develop portfolio and garment tech pack.
- 2. Practice the pattern development and garment construction for selected garments styles.
- 3. Determine the production cost and MRP for single garment.

Expected Course Outcomes:

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

CO1	Understand about the design process concepts and methods		
CO2	Apply the domain Knowledge and develop portfolio		
CO3	Create the garment sample for Kids wear	K6	
CO4	Create the garment for Women's wear	K6	
CO5	Create the garment for Men's wear	K6	

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

75 hours

- 1. Each Student should prepare 3 ready to wear garments (kids wear/ men's wear/ women's
- 2. Designs may be inspired by national or international designer collection based on current trends.
- 3. Students should prepare 2 kinds of file such as design process (Portfolio) & Garment Tech
- 4. Design file which comprises inspiration details, customer survey report, design, fabric, silhouette, color forecast details.
- 5. Garment tech pack File comprises all flat sketches, Patterns, garment flow process details accessory and trims specification details and costing chart for single piece.

	Total Lecture hours 75 hours									
Tex	xt Book(s)									
1	Fashion Design and Product development, Harold Carr, John Pomeroy, Blackwell									
	Publication, 1992.									
2	Portfolio design + Presentation, Anna Kiper, Batasford publications, 2014.									
3	Portfolio presentation for fashion designers, Linda Tain, Fairchild Publishers, 2010.									
Re	Ference Books									
1	Portfolio Management, S.Kevin, Prentice hall of India, PHI publications, 2006.									
2	Design with Color: The design guide to over 1000 color combination, Alles, Jeanne,									
	Chronicle Books, 1992.									
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)									
http	os://youtu.be/HEsmu45SKv4									
http	os://youtu.be/buERDxlBn8w									
Co	Course Designed By: B.Jeyanthy									

Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	S	S	S	S		
CO2	M	S	S	S	S	L	S	S		
CO3	M	S	S	M	S	M	S	M		
CO4	S	S	S	M	S	L	S	M		
CO5	S	S	S	M	S	S	S	M		



Course Code	57V	INTERNSHIP TRAINING	L	T	P	C
Project		Project	-	-	-	2
Pre-requisite Basic k		owledge in apparel production processes	Sylla Versi		2021- 2022	

The main objectives of this course are to:

- 1. Document the complete details about the processes in apparel production & 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:

CO1	Break-down the process into various activities	K3
CO2	Document the details of the activities	K3
CO3	Prepare the requirements for each process and cost details	K4
CO4	Develop a suitable method	K6
CO5	Prepare the reports and presentations in the specified format.	К3

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

INTERNSHIP GUIDELINES

The students have to undergo full day training in Spinning / weaving / Knitting / Dyeing / Printing / Finishing/ Washing / Sewing and relate areas of apparel production. Visit to industry should be such that it covers the most of the segments of apparel industry and the time spent in each segment should also be uniform.

Students can undergo individually or a batch of maximum 4 nos. only will be allowed for training.

Training can be planned for a stretch 3 weeks except Saturday and Sunday during the fourth semester vacation.

The faculty in charge will give all the formats and guidelines for preparing report.

The students have to record all the required information and observations during training and submit a rough copy within 5 days after completion of training.

Students have to 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 from the Department should be collected by the students from the Department before the start of the training. Student must present for review meeting to assess the progress conducted during training period.

The students will be assessed based on their Training report (30 - 50 pages), Viva-Voce examination and the PPT presentation.

examination and the PP1 presentation.

- Text Book(s)

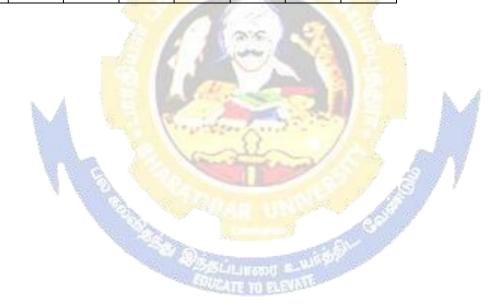
 1 The Impact of Globization in a developing Market, A.Anthony, Mary Joseph.T, Published by SMEs in Indian Textile, 2010.
- Analysing Sample Production Processes in the Apparel Industry and a Model Proposal, Published by Magic world of textiles, 2012.

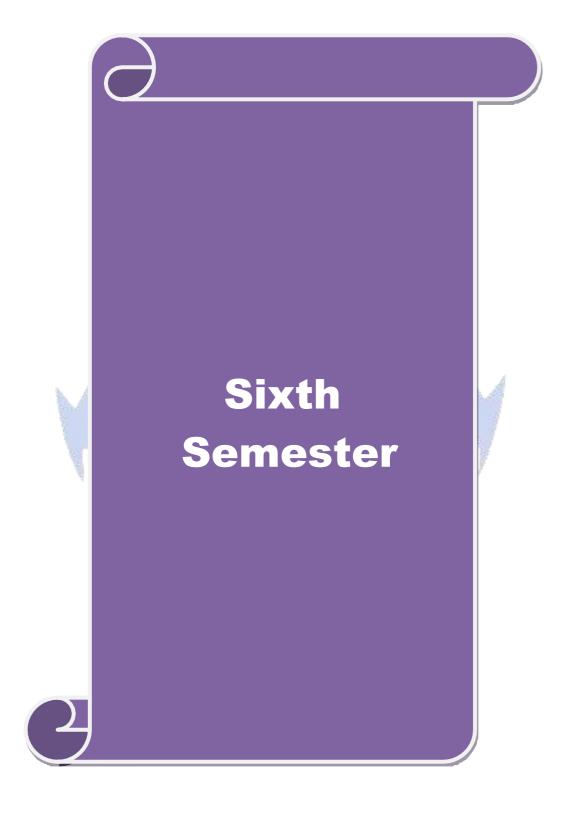
Reference Books

1 The Successful Internship. United States, King, Mary A., and Sweitzer, H. Frederick.,

	Cengage Learning 2013.						
Rela	ated Online Contents						
1	https://clothingindustry.blogspot.com/2018/09/sampling-process-apparel-industry.html						
2	2 http://textilemerchandising.com/garments-sampling-process/						
Cou	Course Designed By: Dr. P.P.Gopalakrishnan						

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





Course code	63A	APPAREL INDUSTRIAL ENGINEERING –II	L	Т	P	С
Core		Paper XIV	6	-	-	3
Pre-requisite		Knowledge about apparel	Syllabus		202	21-
		production management	Version		2022	

The main objectives of this course are to:

- 1. Provide the knowledge about industrial engineering concepts applicable to apparel sector.
- 2. Help the students to understand the method study and work measurements of apparel industry.
- 3. Enhance the student's knowledge in ergonomics factors applicable to apparel sector.

Expected Course Outcomes:

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

CO1	Understand about the industrial engineering concepts for apparel industry	K2
CO2	Understand about the method study & work measurements	K2
CO3	Apply the domain knowledge to improve productivity	К3
CO4	Analyze about the various ergonomics structures applicable to apparel sector	K4
CO5	Analyze about the personnel services and sources for apparel sectors	K4

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

Unit:1 Introduction to IE 20 hours

Industrial engineering: Scope, concepts. Roles and functions of industrial engineer in apparel industry.

Plant layout & material handling: Layout planning and development, types of layout, characteristics of good work station layout, layout calculations, layout for apparel industry. Material handling: Objectives, classifications of material handling equipments, specialized material handling equipments related to apparel industry.

Unit:2 Productivity 15 hours

Measurement methods, productivity calculations in apparel manufacture, basic work content and added work content, reduction of work content and ineffective time. Causes for low productivity in apparel industry, suggestions for productivity improvement. Manufacturing productivity solutions. Work study- techniques, procedure. Work study and its influence on productivity.

Unit:3 Method Study 15 hours

Procedure, process charts and symbols. Charts indicating process sequence: outline process chart, flow process charts; charts using time scale-multiple activity chart. Diagrams indicating movement – flow diagram, string diagram, cycle graph, chrono cycle graph, travel chart. Examples from apparel industry.

Unit:4 Motion and Work study 20 hours

Motion study & operation improvement: Operation analysis, motion analysis, motion economy, two handed process chart, micro motion analysis - therbligs, SIMO chart. Evaluating motion study data, principles for improving operation methods in apparel manufacture – cutting, sewing, pressing and packing.

Work Measurement: Procedure, techniques - time study: equipments, forms, procedure, rating, allowances and calculation of standard allowable minutes (SAM) for various operations in apparel manufacture - predetermined motion time standards (PMTS) - work sampling - standard data: general sewing data (GSD). Applications.

Un	it:5	Introduction to Ergonomics	20 hours
cor per	ntrol, humid sonnel and	ment and services: Lighting, ventilation, climatic conditi ity control. Noise control, safety. Services: production, pla convenience related. Work environment and services in appa	nt, administrative,
IIII	ns. Ergonon	nics - application in apparel manufacture.	
Un	it:6	Contemporary Issues	2 hours
Ex	pert lectures		
		Total Lecture hours	92 hours
Te	xt Book(s)		
1	Managing Distributo	Productivity of Apparel industry, Rajesh Bheda, CBI rs, 2002.	I publishers and
2	Industrial India Pvt l	engineering in apparel production, V. Ramesh Babu, Woo Ltd, 2011.	d head publishing
3		Manufacturing Hand Book, Analysis principles and practice edia Publishers, 1991.	e, Jacob Solinger,
	•		
Re	ference Boo	oks	
1		d Time Study Design and Measurement of Work, Ralph M B	arnes, John Wiley
2	Introduction 2007.	on to Clothing Production Management, A.J Chuter, Blac	kwell Publishing,
			L 4
		Contents(MOOC,SWAYAM,NPTEL,Websites etc)	
	<u> </u>	outube.com/watch?time_continue=4&v=qXFUqCijkUs&feato	ure=emb_logo
		e/NzhUZ6jyrtU	
Co	urse Design	ed By : Arundhat <mark>i Ghosh</mark> al	

Mapping with Programme Outcomes										
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	M	M	S	S	S	S	S	S		
CO2	M	S	S	S	S	S	S	S		
CO3	S	S	S	S	S	S	S	S		
CO4	S	S	S	S	S	S	S	S		
CO5	S	S	S	S	S	S	S	S		

Course code	63B	ENTERPRISE RESOURE PLANNING	L	Т	P	С
Core		Paper XV	-	4	-	3
Pre-requisite		Basic knowledge about apparel enterprises and application and role of computer in apparel sector	•	labus rsion		21-)22
Course Object	ives:				•	

The main objectives of this course are to:

- 1. Provide the knowledge about the enterprises and its types.
- 2. Help the students to understand the ERP software for apparel business.
- 3. Enhance the student's knowledge in implement and utilize ERP in an apparel sector.

Expected Course Outcomes:

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

CO1	Understand about apparel enterprises and its types	K2
CO2	Understand about the implementation of ERP in apparel sector	K2
CO3	Apply the domain knowledge to carry out the ERP packages for various department of apparel sector	К3
CO4	Analyze about the production planning, costing and merchandising software	K4
CO5	Apply the various communication methods using software with consumers	К3

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

Unit:1 Introduction to ERP 12 hours

Introduction: ERP: An Overview, enterprise – an overview, types of Enterprises, need for ERP, benefits of ERP, ERP and related technologies, Business Process Reengineering (BPR), Benefits of BPR.

Unit:2 Implementation of ERP 12 hours

Implementation of ERP: ERP implementation lifecycle, implementation methodology, hidden costs, organizing the implementation, vendors, consultants and users, contracts with vendors, consultants and employees, project management and monitoring.

Unit:3 Business Modules 12 hours

The Business Modules: Business modules in an ERP package - finance, manufacturing, human resources, plant maintenance, materials management, quality management, sales and distribution. Significance and advantages of each of the modules.

Unit:4 ERP in apparel industry 12 hours

ERP in apparel industry: Production resource planning – principles and management of and demand chain analysis– quick response strategy - material management for Quick Response Just in Time (JIT) Technology; Production planning, costing and merchandising software.

Unit:5 Computer Applications in Apparel sectors 12 hours

Computer Applications: Management Information System in garment industry – EDI in garment technology; Use of Computers in Designing, Pattern making, computerized production systems, communicating with vendors and buyers; Telephone, fax, video conferencing, intranet, internet, etc; Export documentation, retailing; Methods of communicating with consumers.

		Total Lecture hours	60 hours				
Tex	Text Book(s)						
1	ERP Demystifi	ed, Alexis Leon, Tata McGraw Hill, 2000.					

2	Apparel Manufacturing- Sew	n Product	Analysis,	E.	Glock	Ruth	&	I.Kunz	Grace
	Blackwell, Scientific Publicati	ons, 1996.							

3 Enterprise Resource Planning – Concepts and Practice, Garg Vinod Kumar & N. K Venkita krishnan, PHI Publications, 2003.

Reference Books

- Concepts in Enterprise Resource Planning, Joseph A Brady, Ellen F. Monk, Bret Wagner, Thompson Course Technology, 2001.
- 2 Enterprise Resource Planning, Alexis Leon, McGraw Hill Education, 2007.

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)

https://youtu.be/RUYm6HwMWyI

https://youtu.be/UnbkuTOmX_g

Course Designed By: D. Anita Rachel

Mappi	Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
CO1	M	M	M	M	M	S	S	S	
CO2	L	L	L	L	L	S	S	S	
CO3	L	L	L	L	L	S	S	S	
CO4	L	L	L	L	L	S	S	S	
CO5	L	L	L	L	L	S	S	S	

Course code	63C	ENTREPRENEURSHIP AND SMALL BUSINESS DEVELOPMENT		T	P	С
Core		Paper XVI	-	4	-	3
Pre-requisite		Basic knowledge about various business schemes and opportunities	Sylla Vers			21-)22

The main objectives of this course are to:

- 1. Provide the knowledge about the enterprise launching formalities and product selection.
- 2. Help the students to understand the support institutions and management system for apparel sector.
- 3. Enhance the student's knowledge in subsidies and incentive procedure to promote apparel export.

Expected Course Outcomes:

On the successful completion of the course, student will be able to:				
CO1	Understand about the concept of entrepreneurship	K2		
CO2	Understand about the entrepreneurial opportunity and product identification	K2		
CO3	Apply the domain knowledge to enterprise launching process	K3		
CO4	Analyze about the various support Institutions and management of Small Business	K4		
CO5	Understand about taxation benefit to SSI role of entrepreneur in export promotion and import substitution	K2		

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

Unit:1 Introduction to Entrepreneurship

Entrepreneurship: Concept and Definitions; Entrepreneurship and Economic Development; Classification and Types of Entrepreneurs; Entrepreneurial Competencies; Factor Affecting Entrepreneurial Growth – Economic, Non-Economic Factors; EDP Programmes; Entrepreneurial Training; Traits/Qualities of an Entrepreneurs; Entrepreneur; Manager Vs. Entrepreneur.

12 hours

Unit:2 Identification and Product Selection 12 hours

Opportunity / Identification and Product Selection: Entrepreneurial Opportunity Search and Identification; Criteria to Select a Product; Conducting Feasibility Studies; Project Finalization; Sources of Information.

Unit:3 Enterprise Launching Formalities 12 hours

Small Enterprises and Enterprise Launching Formalities: Definition of Small Scale; Rationale; Objective; Scope; Role of SSI in Economic Development of India; SSI; Registration; NOC from Pollution Board; Machinery and Equipment Selection; Project Report Preparation; Specimen of Project Report; Project Planning and Scheduling using Networking Techniques of PERT / CPM; Methods of Project Appraisal.

Unit:4 Support Institutions and Management 12 hours

Role of Support Institutions and Management of Small Business: Director of Industries; DIC; SIDO; SIDBI; Small Industries Development Corporation (SIDC); SISI; NSIC; NISBUD; State Financial Corporation SIC; Marketing Management; Production Management; Finance Management; Human Resource Management; Export Marketing; Case Studies.

Unit:5	Incentives and subsidies	12 hours
Incentives and	subsidies - Subsidized services - subsidy for market. Transpo	rt – seed capital
assistance - T	axation benefit to SSI role of entrepreneur in export promote	tion and import

substitution.

Total Lecture hours 60 hours

Tex	xt Book(s)
1	Small Scale Industries and Entrepreneurship, Desai, Vasant, Himalaya Publishing House,
	2003.
2	Entrepreneurship Management, Kaulgud, Aruna, Vikas Publishing House, 2003.
3	Entrepreneurial Success: A Psychological Study, Chandra, Ravi, Sterling Publication Pvt.
	Ltd., 2003.
Ref	ference Books
1	Entrepreneurship Ideas in Action, Cynthia, L. Greene, Thomson Asia Pvt. Ltd, 2003.
2	Entrepreneurship Development: An Analytical Study, Balaraju, & Theduri, Akansha
	Publishing House, 2004.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://nptel.ac.in/courses/110/106/110106 <mark>141/</mark>
http	os://nptel.ac.in/courses/110/107/110107094/
Col	urse Designed By: Dr.M.M <mark>angalagowr</mark> i

Mappi	Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
CO1	M	M	M	M	M	S	S	S	
CO2	M	▲ M	M	M	M	S	S	S	
CO3	M	M	M	M	M	S	S	S	
CO4	M	M	M	M	M	S	S	S	
CO5	M	M	M	M	M	S	S	S	

Course code	6ZV	PROJECT WORK AND VIVA VOCE		Т	P	C
Skill Based Subject		Skill Based Subject IV		-	5	3
Pre-requisite		Through Knowledge about textile, design and apparel manufacturing		abus sion		21-)22

The main objectives of this course are to:

- 1. Helps students to involve them into research activity.
- 2. Enhance the student's to conceptualize new ideas to facilitate a process or service
- 3. Stimulate entrepreneurial skill of a student

Expected Course Outcomes:

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

CO1	Remember the subject learn from the course of time	K1
CO2	Apply the research activity in a specific topic from fiber to garment	К3
CO3	Analyze the domain Knowledge and develop new concepts or ideas	K4
CO4	Evaluate the idea or concept by either qualitative or quantitative methods	K5
CO5	Create thesis for the new findings	K6

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

Students have to undertake project in the areas of fiber / yarn / Knitting / Weaving/ Processing /Garment Manufacturing process / Activity involved in garment business. A Team consisting of Internal & External Experts will evaluate the Project Report. The Viva-Voce will be conducted.

Total	hours	75 hours

Text Books

- Research Methodology Methods and techniques, C.R.Kothari & Gaurav Garg, New Age International Publishers, 2019.
- Research Design: Qualitative, Quantitative and Mixed Method Approaches, John W. Crewel, Sage Publication, 2018.
- 3 The Essential guide to doing research, Zina O'Leary, Vistaar Publication, 2004.

Reference Books

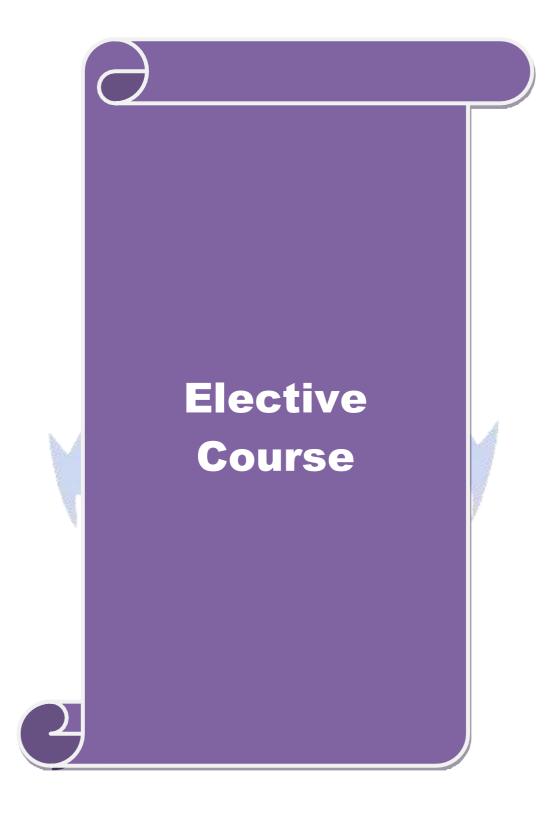
- 1 Research Methods, Ram Ahuja, Rawat Pubns, 2001
- Introducing Research Methodology: A Beginner's Guide to Doing a Research Project, Uwe Flick, Sage Publications India Private Limited, 2017

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)

https://nptel.ac.in/courses/121/106/121106007/

https://onlinecourses.nptel.ac.in/noc19_hs59/preview

Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S	S	S	S	S	S	S	S
CO2	S	S	S	S	S	S	S	S
CO3	S	S	S	S	S	S	S	S
CO4	S	S	S	S	S	S	S	S
CO5	S	S	S	S	S	S	S	S



Course code	5EP	PATTERN MAKING AND GARMENT CONSTRUCTION OF WOVEN PRACTICAL	L	Т	P	C
Elective	1	Paper 1 A	-	-	6	4
D ::4		Knowledge about patternmaking and	Sylla	bus	202	21-
Pre-requisite		sewing operation	Vers		20	22
Course Object	tives:	3 1				
		s course are to:				
1. Helps stude	nts to practio	ce Pattern developments for woven garments	S.			
		to construct woven garment Styles for Kids				
		to construct woven garment Styles for adul	ts.			
Expected Cou						
On the success	sful completi	ion of the course, student will be able to:				
CO1 Reme	mber the pat	tern development procedures for woven				K1
CO2 Unde	rstand the pa	ttern manipulation for style line				K2
CO3 Analy	ze the doma	in Knowledge and develop pattern on fabric	<u>,</u>			K4
· ·		ments for kids wear				Ke
		ments for adults wear				K
			volvoto	. 17.6	Croot	
KI - Kememo	er, K 2 - Unc	derstand; K3 - Apply; K4 - Analyze; K5 - E	varuate	; K 0 -	- Creat	le
1.	Kids	Yoke frock with gathers	ments		25 h	
2.3.		Ball room gown				
 4. 		Shirt for boys Pant for boys				
т.		1 dilt 101 boys				
Part B	Draft the Women	pattern and construct the following gar	ments	for	40 h	our
1.		Basic bodice	1		_ /	
2.		Princess cut tops	/ 3		4	
3.		Formal shirt		7 1	87	1
4.		Formal pant		A.		
5. 6.		Dividing skirts Circular skirt	-	48	3	
7.		Wrap round skirt	-65 T		<i>r</i>	
7.		Wrap round skirt	100	S. Carlot		
Part C		attern and construct the following for Men's wear			25 h	our
1.		Formal shirt				
2.		Casual shirt				
3.		Formal pant				
4.		Blazer				
		Total Lecture	hours	9	00 h	our
Text Book(s)				1		
	aking for fas	shion design, Helen Armstrong, Pearson, 20)13.			
		<i>5</i> ,	-			
2 Pattern D	esign: Funda	amentals: Construction and Pattern Making f	or Fas	hion I	esign.	

3	The stretch and sew guide, Ann Person, Pearson Publication, 2000.						
Reference Books							
1	Clothing Construction, Clara M Brown, Read Books Publishers ,2011.						
2	Garment Construction: A complete course on making clothing for fit and fashion, Peg couch, Fox chapel Publishing,2015.						
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)						
	os://youtu.be/4_FRV8flGi0						
http	os://www.sciencedirect.com/topics/engineering/garment-construction						
Co	urse Designed By: B.Jevanthy						

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	S	S	S	S	S	S	S	M		
CO2	S	S	S	S	S	S	S	M		
CO3	M	S	S	S	L	S	S	M		
CO4	M	S	S	S	L	S	S	S		
CO5	M	S	S	S	L	S	S	S		



Course code	5EQ	DRAPING PRACTICAL	L	Т	P	С
Elective		Paper I B	-	-	6	4
Pre-requisite		Basic skill about pattern and fabric terms also understand the tools	Sylla Vers		-	21- 22

Course Objectives:

The main objectives of this course are to:

- 1. Helps students to understand the fundamentals of Pattern making & Grading.
- 2. Understand and practice the pattern development for various Knitted Garment Styles for Kids.
- 3. Understand and practice the pattern development for various Knitted Garment Styles for adults.

Expected Course Outcomes:

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

CO1	Remember the pattern terms and making tools	K1
CO2	Understand the pattern and grading techniques	K2
CO3	Analyze the domain Knowledge and develop paper pattern	K4
CO4	Create patterns for the various garment styles for kids	K6
CO5	Create patterns for the various garment styles for Adults	K6

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

Part A Draft the pattern and grade the following garments for Kids 90hours

2018

1. Basic Bodice front & Back

https://youtu.be/h_UlHFIjDU4

- 2. Basic Skirt Front & Back
- 3. Basic Sleeve
- 4. Pant Front & Back
- 5. Neck lines: Sweet Heart, Scooped Boat V neck Round neck Square Neck Halter- Cowl
- 6. Yokes: Hip Midriff Shirt yoke
- 7. Collars-Mandarin- Peter pan- Turtle Raffeled- Shawl- Frills
- 8. Skirt Circular, Peg, Drindle, Pleated
- 9. Design each one garment for men, women, and kids wear and further develop pattern through this technique.

Course Designed By: Arundhati Ghoshal

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	L	L	L	L	L	S	S	S		
CO2	L	L	L	M	L	S	S	S		
CO3	L	M	L	M	L	S	S	S		
CO4	L	M	L	L	L	S	S	S		
CO5	L	L	L	L	L	S	S	S		



Course	code	5ER	SURFACE ORNAMENTATION - PRACTICAL	L	T	P	C
Elective			Paper I C	-	-	6	4
Pre-requ	isite	Basic knowledge about embroidery Syllabus tools, sequins, painting, printing . Version 202					
Course C)bjectiv	ves:		1			
1. Helps s 2. Unders smocking	students stand an g, quiltin	s to understand ad practice the ag etc.	ourse are to: nd the fundamentals of printing of textiles. ne pattern development for various surface em ne various embroidery stitches to ornament the			ıts usi	ng
Expected	l Cours	e Outcomes	S :				
_			n of the course, student will be able to:				
CO1		-	proidery, printing and various embellishments	techr	niques	S	K
CO2			ample using printing techniques				K
CO3			ctile texture using craft work				K
CO4			garment using smocking, appliqué', pleats ar	nd tuc	ks		K
CO5			proidery sample for garment embellishments				K
K1 - Rem			stand; K3 - Apply; K4 - Analyze; K5 - Evalu	ate; K	C 6 – C	Create	;
Part A		Developm	ent of samp <mark>les with various printing techni</mark> o	ques	•	20 ho	 our
 So Ti Ba 	encil creen ie and D					100	
Part B			ng fabric tex <mark>ture using various craft techni</mark> c	ques	1	10 h	ur
2. C	rawn thounted rochet			San	ŝ		Bh.
Part C		Developin	g Garment with following Embellishments		7 2	20 ho	ur
1. St 2. A 3. Pa	nocking pplique atchwor uilting	g	TOTALE TO EVENIE	A CONTRACTOR OF THE PARTY OF TH	-		

5. Pleats and tucks

Part D	Developing Embroidery design on the fabric	40 hours					
Basic stitches - Includes hand & machine to form different natural & geometric forms such as,							
border stitches, o	outline stitches, filling stitches etc						
	Total Lecture hours	90 hours					
Text Book(s)							

- Encyclopaedia of embroidery stitches including crewel , Marion Nichols, Dover Publications, 1974.
- Encyclopaedia of embroidery Techniques, Pauline Brown, Search Press Ltd,2001.
- The Art of Manipulating Fabric, Colette Wolff, Interweave Publication, 1996.

Reference Books								
1	1 Traditional Textiles of India, Parul Bhatnagar, Suraj Publication, 2013.							
2	2 Handcrafted Indian Textiles, Parul Bhatnagar, Abishek Publication, 2014.							
Rel	lated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)							
http	https://youtu.be/IQD5WeYSH70							
http	os://youtu.be/wjCfskJeOlA							
Coi	urse Designed By: B.Jeyanthy							

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8		
CO1	M	M	M	L	L	S	S	S		
CO2	L	L	L	L	E L	S	S	S		
CO3	L	L	L	L	L	S	S	S		
CO4	L	L	L	L	L	S	S	S		
CO5	L	L	L	L	L	S	S	S		



Course code	6EP	DESIGN PROCESS & PRODUCT DEVELOPMENT II - PRACTICAL	L	Т	P	С
Elective		Paper II A	•	-	6	4
Pre-requisite		Through knowledge about CAD and production techniques	Sylla Ver	abus sion	2021- 2022	

Course Objectives:

The main objectives of this course are to:

- 1. Provide the knowledge about the preparatory process of sewing process.
- 2. Help the students to understand the working principles of various sewing machines.
- 3. Enhance the students knowledge in garment finishing equipments.

Expected Course Outcomes:

successful completion of the course, student will be able to:	
Understand about the design process concepts and methods	K2
Apply the domain Knowledge and develop design portfolio and techpeck	K3
Create the garment sample for Kids wear	K6
Create the garment for Women's wear	K6
Create the garment for Men's wear	K6
	Apply the domain Knowledge and develop design portfolio and techpeck Create the garment sample for Kids wear Create the garment for Women's wear

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

90 hours

90 hours

- 1. Each Students make 2 High end fashion and one functional apparels (Kids / Men /Women)
- 2. Designs may be inspired by national or international designer collection or their own inspiration based on current needs
- 3. Students should prepare 2 kinds of file such as design process & Garment Tech pack
- 4. Design file which comprises inspiration details, customer survey report, design, fabric, silhouette, color forecast details.
- 5. Garment Tech pack file comprises all flat sketches, garment flow process details accessory and trims specification details and costing chart for single piece

Total Lecture hours

Text Book(s)

- Fashion Design and Product development, Harold Carr, John Pomeroy, Blackwell Publication, 1992.
- 2 Portfolio design + Presentation, Anna Kiper, Batasford publications, 2014.
- 3 Portfolio presentation for fashion designers, Linda Tain, Fairchild Publishers, 2010.

Reference Books

- 1 Portfolio Management, S.Kevin, Prentice hall of India, PHI publications, 2006.
- Design with Color: The design guide to over 1000 color combination, Alles, Jeanne, Chronicle Boos, 1992.

Related Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)

https://youtu.be/HEsmu45SKv4

https://youtu.be/buERDxlBn8w

Course Designed By: B.Jeyanthy

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8					
CO1	S	L	S	S	S	S	S	S					
CO2	S	S	S	S	S	S	M	S					
CO3	M	S	S	M	S	S	M	S					
CO4	М	S	S	M	S	S	S	S					
CO5	S	S	S	M	S	S	S	S					

Course Objective The main objective 1. Provide the know 2. Help the studen 3. Enhance the stu Expected Course On the successful CO1 Understan CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; I Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	ves of this copyledge abouts to practisudent's knowe Outcomes completion and practe domain knowe drawing skninting designment sketce K2 - Unders	out the drawing, painting, garment sketching e fashion accessory drawing and printed de vledge in fashion illustration.	ograph n illus	sion s.	n - Crea	K2 K3 K3 K6 K6
2. Help the studen 3. Enhance the stu Expected Course On the successful CO1 Understar CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	ves of this copyledge abouts to practisudent's knowe Outcomes completion and practe domain knowe drawing skninting designment sketce K2 - Unders	and fashion Illustration ourse are to: out the drawing, painting, garment sketching e fashion accessory drawing and printed develope in fashion illustration. of the course, student will be able to: cise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion as for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Evantation and the stand of the	g. esigns	sion s.	n - Crea	K2 K3 K3 K6 K6
The main objective 1. Provide the known 2. Help the student 3. Enhance the student 3. Enhance the student of the successful to the success	ves of this copyledge abouts to practisudent's knowe Outcomes completion and practe domain knowe drawing skninting designment sketce K2 - Unders	out the drawing, painting, garment sketching e fashion accessory drawing and printed develope in fashion illustration. of the course, student will be able to: tise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion as for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stands in the st	ograph n illus	ns etration	- Crea	K3 K3 K6 K6
1. Provide the known 2. Help the studen 3. Enhance the studen 3. Enhance the studen 3. Enhance the studen 4. Course Con the successful Color Understant Color Colo	owledge abouts to practisudent's known of Outcomes completion and practice domain known of drawing skilling designment sketce K2 - Unders	out the drawing, painting, garment sketching e fashion accessory drawing and printed develope in fashion illustration. of the course, student will be able to: tise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion as for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stand; K3 - Apply; K4 - Analyze; K5 - Evaluation in the stands in the st	ograph n illus	ns etration	- Crea	K3 K3 K6 K6
2. Help the studen 3. Enhance the stu Expected Course On the successful CO1 Understar CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	nts to practisudent's known of the Outcomes completion and practice domain known of the drawing skinning designament sketce K2 - Unders	e fashion accessory drawing and printed develope in fashion illustration. of the course, student will be able to: tise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion as for fabrics and do it on fabric hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	ograph n illus	ns etration	- Crea	K3 K3 K6 K6
3. Enhance the stu Expected Course On the successful CO1 Understan CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; I Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	e Outcomes completion and and practe domain kn e drawing sk winting designament sketc K2 - Unders	wledge in fashion illustration. of the course, student will be able to: ise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion as for fabrics and do it on fabric hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	ograph n illus	ns etration	- Crea	K3 K3 K6 K6
On the successful CO1 Understan CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	e Outcomes completion and and practed domain kneed drawing skalinting designament sketce K2 - Unders	of the course, student will be able to: dise the still model and drawing from photo owledge to practise outdoor sketching dill to develop accessory design and fashion as for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	n illus	tratio	- Crea	K3 K3 K6 K6
On the successful CO1 Understar CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; I Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	completion nd and pract e domain kn e drawing sk ainting desig arment sketc K2 - Unders	of the course, student will be able to: ise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion ns for fabrics and do it on fabric hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	n illus	tratio	- Crea	K3 K3 K6 K6
CO1 Understand CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; I Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	nd and practe domain kneedrawing skainting designment sketce K2 - Unders	cise the still model and drawing from photo owledge to practise outdoor sketching till to develop accessory design and fashion ans for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	n illus	tratio	- Crea	K3 K3 K6 K6
CO2 Apply the CO3 Apply the CO4 Create pa CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	e domain kn e drawing sk ninting designament sketc K2 - Unders	owledge to practise outdoor sketching cill to develop accessory design and fashion as for fabrics and do it on fabric thing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Evand:	n illus	tratio	- Crea	K3 K3 K6 K6
CO3 Apply the CO4 Create part CO5 Create gar K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcle a) Creating Check	e drawing skainting designment sketc K2 - Unders	rill to develop accessory design and fashion ns for fabrics and do it on fabric hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva			- Crea	K3 K6 K6
CO4 Create pa CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	ainting designment sketc K2 - Unders	ns for fabrics and do it on fabric hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva			- Crea	K6 K6 te
CO5 Create ga K1 - Remember; Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	rment sketc K2 - Unders	hing for Kids, Women & Men stand; K3 - Apply; K4 - Analyze; K5 - Eva	aluate;	; K6 –		K6 te
Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	K2 - Unders	stand; K3 - Apply; K4 - Analyze; K5 - Eva	aluate	; K6 –		te
Part A 1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	Ţ,	and 65 No.	aluate	; K 6 –		
 Still Drawing Model drawing Fabric painting Garment Sketcl Creating Check 	•	Fashion Sketching			60 l	10urs
1. Still Drawing 2. Model drawing 3. Fabric painting 4. Garment Sketcl a) Creating Check	•				00 1	
b) Creating Printe5. Outdoor Sketch6. Fashion accesso	ed effects in ning	n a garment - one colour and multiple colour and multiple colour and multiple colour				<u> </u>
Part B	ory urawing	Fashion Illustration	7	- 65	30 l	10urs
	Photographs	- any 2 garment designs	/	1	201	or or
_	0 1	ge work, Cutwork illustration, 3D illustrati	ions		4	77
3. Group illustrati	on with diff	erent backgro <mark>unds</mark>	7.3	A	3	F
		Total Lecture h	ours	38	90 l	hours
Text Book(s)			a (198			
1 Fashion Illus	tration Tech	niques,Zeshu Takamura, Rockport Publish	ners,20	012.		
2 Fashion Illus	tration & De	esign: Methods & Techniques for Achievin	ng Pro	fessio	nal	
Designs,Man	uela Bramb	atti, Promopress,2017.				
3 Fashion Flats	and Techni	cal Drawing, Bina Abling, Felis Da Costa	a , Blo	oomsb	ury	
Academic,20)17.					
Reference Books						
		s , Bina Abling , Bloomsbury Publi	china	Indi	a Dr	iveto
Limited,2012		, Dina Admig , Diddinsdary Fudir	simig	mul	а Г1.	ivale
2 Fashion Sour	rce Book, K	athryn McKelvey, John Wiley & Sons Pub	licatio	ons,19	96.	
		OC,SWAYAM,NPTEL,Websites etc)				

https://youtu.be/WLF00p7SDR4

Course Designed By: R.Sneka

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8					
CO1	M	S	M	M	S	S	S	S					
CO2	S	S	S	S	S	S	M	S					
CO3	M	S	S	M	S	S	M	S					
CO4	M	S	S	M	S	S	M	S					
CO5	M	S	S	M	S	S	S	S					



Course code	6ER	ADVANCED CAD PRAC	TICAL	L	T	P	C	
Elective		Paper II C		-	-	6	4	
Pre-requisite		Through Knowledge about designing software	it fashion		•		021-	
Course Object								
The main object								
		bout design software.	1 .					
-		erstand the techniques to develop nowledge in catalogue and fashio		dron (lacian	c		
Expected Cou			II SHOW Dack	urop c	iesigii	5.		
_		on of the course, student will be	able to:					
-							K2	
CO1 Understand about various tools and techniques of software CO2 Create and develop the Image edited collage work proto type sample							K	
			proto type sa	шріс			K	
		screen printing in film format.	4 41	1 4 4				
		lesigns and Fancy effect designs					Ke	
		ch pack, catalogue and fashion s	-				K	
K1 - Remembe	r; K2 - Und	<mark>estand; K3 - Apply; K4 - Analyz</mark>	ze; K5 - Eva	luate;	K6 – (Create	•	
A1						40.		
Chapter:1	0 0 11	Collage work	75			10 h	our	
image Editing	x Special el	fects, Collage work.						
Print Designing digital print out		ng, Colour Separation, Film Mad color films).	king (Each	studer	it shou	ıld su	bmı	
Chapter:3	A	c <mark>cessory design & Fancy dyein</mark>	g effects	100000	ř	15 h	our	
		and bag, Footwear, Hat Garme		with s	pecial	effec	cts -	
Batik, Tie and	Die, Block p	orint, Checks and stripes.		7				
	1		4507		1			
Chapter:4		Garment Tech Pack develop	ment			40 h	our	
Garment Tech	Pack Design	n – Knitted casual wear.	and the same of th					
Chantant 5	Cata	logue design and fashion show	haalt duana		1	15 h		
Chapter:5		logue design and fashion show alogue Design – Fashion show.	back arops			15 h	our	
Layout	Design, Cat	arogue Design – Fasinon snow.						
		Tot	al Lecture h	ours		90 h	our	
Text Book(s)								
	esigner's Ha	andbook for Adobe Illustrator, M	arianne Cent	ner I	ohn W	ilev &) ₇	
Sons, 2011	· ·	indoon for ridooc indistrator, ivi			JIIII **	nej e	•	
,		Design: Methods & Techniques	for Achievir	na Dro	faccio	nal		
		mbatti, Promopress, 2017.	101 Acilievii	ig Fio	1688101	ııaı		
		r Photoshop & CorelDraw, J.Vee	eranathan, B	alaii Ir	stitute	e of		
	Graphics, 2	-	, 2		15 010000	01		
Computer		· · · · · · · · · · · · · · · · · · ·						
Reference Boo	ks							
		ad: Famala Figura Dagas & Assa	ggoriog Tom	nlotoc	Λ 11 ÷~	<u> </u>		
	-	ad: Female Figure Poses & Acce	-	-			at	
		our Pro Portfolio, Aemiliana Ma	gnus, Create	space	maer	endei	11	
D1.1: -1.:	Platform, 2	010						

2	Fashion Illustration: Inspiration and Technique, Anna Kiper, David & Charles, 2011
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://www.youtube.com/watch?v=C0t1bMhKZ0Q
http	os://www.youtube.com/watch?v=aTyETNebNMs
Cou	urse Designed By: T.Suresh

Mappi	Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8					
CO1	L	S	S	S	S	S	M	S					
CO2	S	S	M	S	S	S	M	S					
CO3	L	S	M	M	S	S	M	S					
CO4	L	S	S	M	S	S	S	S					
CO5	L	S	S	M	S	S	S	S					



o. Sc. Garme	n Designing an	d Production 2021-22onwards–Affiliated Colle SC	CAA Da								
Course cod	urse code 6EA FASHION MERCHANDISING L T P										
Elective		Paper III A	-	5	-	4					
Due meanig	40	Basic knowledge about fashion sector	Sylla	bus	20	21-					
Pre-requisi	te	and their process	Vers	sion	20	22					
Course Ob	jectives:										
The main o	ojectives of this	s course are to:									
1. Provide t	he knowledge a	about the fashion terms and business.									
2. Help the	students to und	erstand the fashion merchandising concepts.									
3. Enhance	the student's k	nowledge various fashion promotion techniqu	ies.								
Expected C	ourse Outcon	nes:									
On the succ	essful complet	ion of the course, student will be able to:									
CO1 Un	derstand about	the fashion terminologies, principles and env	ironme	ent		K2					
CO2 Un	derstand about	the various fashion business level				K2					
CO3 Un	derstand about	forecasting, designing and merchandising pla	an			K2					

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

Analyze the knowledge to organize to fashion promotion activities

Analyze about the various fashion retailing tools

CO4

CO₅

Unit:1 **Introduction to Fashion Terminologies** 15 hours

Fashion: Meaning, Definition & Terminologies - Components of fashion - Principles of fashion – Environment of fashion: Demographic & Psychographic, Economic, Sociological and psychological factors – Fashion cycle - Leaders of fashion: Designer's role, manufacturer's role and retailer's role – Theories of fashion adoption.

Unit:2 **Fashion Business** 15 hours

Scope of fashion business: Primary level, secondary level and retail level – Type of fashion designers - Fashion focus on Children Apparel: History, organization & operation, merchandising & marketing activities - Fashion focus on Ladies Apparel: History, organization & operation, merchandising & marketing activities

Unit:3 15 hours Men's Apparel

Fashion Focus on Men's apparel: History, organization & operation, merchandising & marketing activities – Fashion focus on Apparel accessories: History, organization & operation, merchandising & marketing activities – Fashion Forecasting – Forecasting techniques - Sources of forecasting.

Unit:4 **Fashion Merchandising** 15 hours

Fashion merchandising: Store image, Target customer – Fashion direction - Design planning and selection – Merchandising plan – Buying – Receiving and Warehousing – Distribution – Retail selling and promotion - Sales evaluation - Retailing policies - Visual Merchandising (VM): Definition & Meaning – VM Techniques – Elements of VM – Functions of a Visual Merchandiser

Unit:5	Fashion Show	15 hours
Fashion Shows	s -Types of Fashion Shows - Organizing fashion shows - C	heck points for
fashion shows	- Foreign Fashion Markets: France, Italy, America, Britain, G	erman, Asian –
Indian Fashion	Industry. Foreign Fashion Designers: American, French, Italia	n, German, UK
Indian Fachic	on Designary Feshion Association in India Feshion Auxilian	CORVIONS

 Indian Fashion Designers – Fashion Association in India – Fashion Auxiliary services. **Total Lecture hours** 75 hours

K4

K4

Tex	xt Book(s)
1	The world of Fahion Merchandising, Mary wolfe, Goodheart–Willcox publications,
	2002
2	Inside the Fashion Business, Kitty G. Dickerson Mc Millan Publishing Co, 2002
3	Fashion Marketing and Merchandising Mary Wolfe, goodheart –Willcox publications, 2017
Ref	ference Books
1	Fashion: From Concept to Consumer, Gini Stephens Frings, Pearson, 2007.
2	Visual Merchandising and Display: Studio Instant Access, Martin M. Pegler & Anne
	Kong, Fairchild Books, 2018
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://www.youtube.com/watch?v=SdPFxESXCM0
http	os://www.youtube.com/watch?v=CQcOmHphL-4
Co	urse Designed By: B. Jeyanthy

Mapping with Programme Outcomes												
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8				
CO1	S	S	M	S	S	S	M	S				
CO2	S	S	S	S	M	S	M	S				
CO3	M	S	S	M	S	S	L	M				
CO4	M	S	S	M	S	S	S	S				
CO5	M	S	M	M	S	S	S	S				

				be		utcu.20	.00.20	
Course code	G	L	T	P	C			
Elective			Paper III B	-	5	-	4	
Pre-requisite Basic knowledge about merchandising tools and techniques					•	abus sion	2021- 2022	
Course Object	ives:	•						
The main object	tives of this c	ourse are to	o:					
1. Provide the k	knowledge ab	out the basi	ics of retailing.					
2. Help the students to understand the concepts and various retailing strategies.								
3. Enhance the	student's kno	wledge bra	nd retailing concepts.					
Expected Cou	rse Outcomes	s:						-

On the	successful completion of the course, student will be able to:	
CO1	Understand about the scope, types and functions of retailing	K2
CO2	Understand about the various retailing strategies	K2
CO3	Understand about the retail supply chain management	K2
CO4	Understand about various retail operations	K2
CO5	Understand about the retail branding	K2

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

Introduction to Retailing Unit:1 10 hours

Retail & Retailing – Meaning & definition – Scope of apparel retailing – Retailing terminologies – Types of retailers and retail formats – Global retailing scenario – Retailing scenario in India – Functions of retailers

20 hours Unit:2 Retail strategies

Retail strategies: Operational excellence, Product differentiation, Customer intimacy -Growth strategies – Market expansion strategies – Store planning – Location planning – Store design – Store design & retailing image mix – Space mix – Effective retail space management Store layout – Floor space management

Unit:3 **Retail Merchandising** 15 hours

Retail merchandising – Merchandise planning – Merchandise hierarchy – Buying function – Category management – Mark up & Mark down – Shrinkage in merchandising management – Cross margin return on inventory – Supply chain management in apparel retailing – ERP in apparel industry

Fashion Merchandising 15 hours Unit:4

Retail operations – Significant areas – Store operating parameters related to customers, stocks, space, employee, finance – Managing retail personnel – Manpower planning – Types of employees in retail – Remuneration structure.

Unit:5 **Retail Branding** 15 hours

Retail Brands and Branding – Functions of brands – Types of brands – Branding strategies – Store brands or private labels – Store brands Vs National brands – Famous apparel retail brands - Packaging - Functions of packaging - Kinds of packaging - Requisites of good package – Customer service management in retail – Service management model.

> **Total Lecture hours** 75 hours

Text Book(s)

Retail Management - Functional Principles & Practices, Gibson G.Vedamani, Publishing House, 2003.

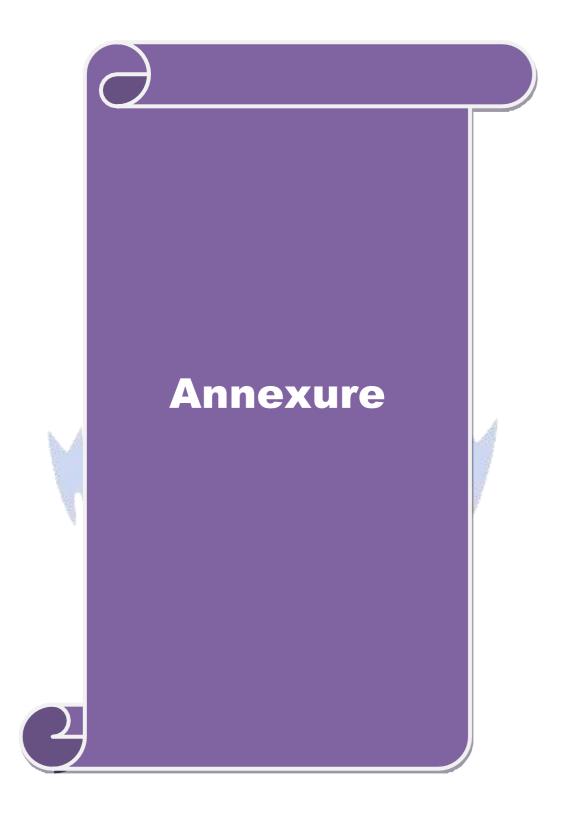
2	Retail Management Chetan Bajaj, Rajnish Tuli & Nidhi Varma Srivastava, Oxford
	Publisher, 2010.
3	The A to Z of Retail Management, Swapnil Saurav & Ravi Potti, Eka Publishers, 2013
Ref	ference Books
1	I.T. in Retailing, Robert Lewis, Unicom Seminars Ltd., 1989
2	Retail Management, Arif Sheikh and Kaneez Fatima, Himalaya Publishing House. 2008.
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)
http	os://nptel.ac.in/courses/110/107/110107147/
http	ps://onlinecourses.swayam2.ac.in/imb19_mg02/
Cor	urse Designed By: Arundhati Ghoshal

Mappi	Mapping with Programme Outcomes								
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
CO1	S	L	L	S	M	S	S	S	
CO2	S	L	L	S	M	S	S	M	
CO3	L	L	L	M	M	S	S	M	
CO4	L	L	M	M	M	S	S	S	
CO5	L	L	M	M	M	S	S	S	

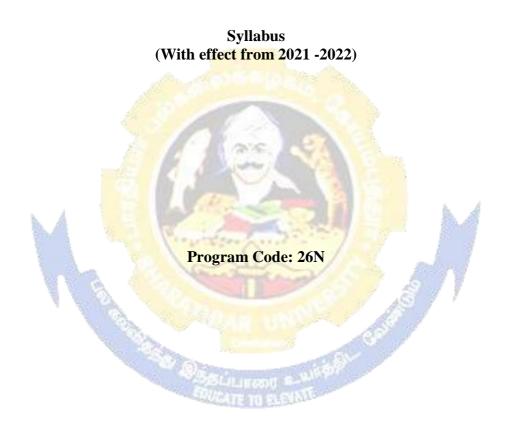
Course code	6EC	BRAND MANAGEMENT L	T	P	C
Elective		Paper III C -	5	-	4
Pre-requisite		i illiernaillonai – brannis – ann – illeir i 🔧	Syllabus)21-)22
Course Object	ives:	1			
The main object		ourse are to:			
		out the importance of brand and its types.			
2. Help the stud	dents to under	stand the brand identity, position and extension a	ctivitie	s.	
		vledge to create and maintain brand image.			
Expected Cou					
On the successi	ful completion	of the course, student will be able to:			
CO1 Unders	stand the conc	ept of brand building			K2
CO2 Unders	stand the know	wledge about brand appraisal techniques			K2
CO3 Apply	the domain kr	nowledge to position brand both national and inte	ernation	nal	K3
level					
CO4 Analyz	ze about the id	lentity and extension of brand			K4
CO5 Analyz	ze the brand pr	romotion and and maintain brand image			K4
K1 - Remembe	r; K2 - Undes	stand; K3 - Apply; K4 - Analyze; K5 - Evaluate;	K6 – (Create	<u> </u>
	·				
Unit:1		Introduction to Branding		4 - 1	
UIII:1		introduction to brancing		15 h	ours
	ction: Brand –	- introduction, functions, brand significance; bran			
Introdu		- introduction, functions, brand significance; bran	ding –	types	and
Introduction strategies internal	national appar	introductio <mark>n, functio</mark> ns, brand significance; brance brands - identification of perspectives and characteristics.	ding –	types	and
Introduction strategies internal	national appar	- introduction, functions, brand significance; bran	ding –	types	and
Introduction strategies interned brand- Indian g	national appar arment brands	rel brands - identification of perspectives and chass and prospects of Indian brands. Brand Appraisal	ding – allenge	types to b	s and ouild
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	Ltd, 2006.							
2	Brand Management -The Indian Context, Y.L.R.Moorthy, Vikas Publication Pvt Ltd,							
	2007.							
3	Brand Management Text and Cases, V.Verma Harsh, Excel books, 2006.							
Ref	Reference Books							
1	Brand Management Text and Cases, U. C.Mathur, Macmillan India Ltd, 2006.							
2	The Luxury Strategy: Break the Rules of Marketing to Build Luxury Brands, Jean-Noël							
	Kapferer, Kogan Page, 2012.							
Rel	ated Online Contents(MOOC,SWAYAM,NPTEL,Websites etc)							
http	os://www.appnova.com/marketing-strategies-for-fashion-brand/							
http	os://www.youtube.com/watch?v=T8lwXcdfdAU							
Cou	rse Designed By: Dr. M. Mangalagowri							

Mapping with Programme Outcomes								
Cos	PO1	PO2	PO3	PO4	PO5	PO ₆	PO7	PO8
CO1	S	L	L	S	M	S	S	S
CO2	S	L	L	S	M	S	S	S
CO3	L	L	L	M	M	S	M	S
CO4	L	_ L	L	M	M	S	M	S
CO5	L 🏡	<u> </u>	L	M	M	S	S	M



B. Sc. Garment Designing & Production





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