



PSGR Krishnammal College for Women



**DEPARTMENT OF COSTUME AND APPAREL DESIGN
PROGRAMME: B.Sc. COSTUME DESIGN AND FASHION**

**CHOICE BASED CREDIT SYSTEM (CBCS) & LEARNING OUTCOMES- BASED CURRICULAR
FRAMEWORK (LOCF)
(I,II, III,IV,V AND VI SEMESTER)**

**COSTUME DESIGN AND FASHION
2022 – 2025 BATCH**



PROGRAMME LEARNING OUTCOMES (PLO's)

PLO 1: To attain knowledge on fashion concepts and theories.

PLO 2: To gain hands on training on manual and digital fashion illustration

PLO 3: To gain skill on both manual and computerized pattern making.

PLO 4: To achieve skill on construction of children's men's and women's wear.

PLO 5: To gain knowledge on entrepreneurial skills for creating value-added garments.

PLO 6: To compile innovative garment collection as fashion portfolio and design ramp walk garment.

PLO 7: To gain knowledge on process sequence of textile and garment manufacturing.

PROGRAMME SPECIFIC OUTCOME (PSO's)

The students graduates

PSO1: Will be able to work as a fashion designer, stylist, and accessory designer in the film industry and for celebrities

PSO2: Able to develop fashion illustrations to succeed as a professionals in the fashion industry

PSO3: Will be able to work as merchandiser, pattern maker, Fashion buyer, CAD designer in apparel industries

PSO4: Will be employed as assistant fashion designer, fashion designers with the added NSDC certification (level - 4 and 5 certifications)

PSO5: Can function independently with their innovative, creative skills and excel as entrepreneurs and fashion consultants.

PSO6: Will be able to organize and conduct the fashion shows



B.Sc. COSTUME DESIGN AND FASHION (2022 - 2025 BATCH & ONWARDS)

CHOICE BASED CREDIT SYSTEM (CBCS) & LEARNING OUTCOMES- BASED CURRICULAR FRAMEWORK (LOCF)

Programme and Branch B.Sc – CDF Scheme of Examination (Applicable to students admitted during the academic year 2022- 2023onwards)												
Semester	Part	Subject Code	Title of the Paper		Instruction hrs/ week	Instruction hrs/ sem	Tutorialhrs /sem	Duration of Examination in hrs	Examination Marks			Credits
									CA	ESE	Total	
I	I	TAM2201/ HIN2201/ FRE2201	Language – Tamil / Hindi / French – Paper I	Language	6	86	4	3	50	50	100	3
	II	ENG2101	English Paper I	English	6	86	4	3	50	50	100	3
	III A		Group A – Core									
		CF22C01	Basic Garment Construction Paper-I	CC	4	60	4	3	50	50	100	3
		CF22P01	Basic Garment Construction lab- (Practical - I)	CC	6	90	-	3	50	50	100	6
			Group B – Allied - Paper I									
		CF22AP1	Allied Practical - I Fashion Designing and Basic Illustrations lab (Practical)	GE	6	90	-	3	50	50	100	5
	IV	NME22B1/ NME22A1/	Basic Tamil I / Advanced Tamil I	AEC	2	28	2	3	50	50	100	2
		NME21ES	Introduction to Entrepreneurship	AEC	2	26	4	-	100	-	100	

II	I	TAM2202/ HIN2202/ FRE2202	Language – Tamil / Hindi / French – Paper II	Langu age	6	86	4	3	50	50	100	3
	II	ENG2102	English Paper II	Engli sh	5	86	4	3	50	50	100	3
	II I		Group A – Core									
		CF22C02	Pattern Making and Grading-Theory-II	CC	4	56	4	3	50	50	100	3
		CF22P02	Apparel Design and Development laboratory – I (Practical-II)	CC	6	90	-	3	50	50	100	6
			Group B – Allied- Paper-II									
		CF22AP2	Allied Practical –II Fashion Illustration Practical	GE	6	90	-	3	50	50	100	5
	I V	NME22B2/	Basic Tamil II /	AEC	-	-	-	-	-	-	-	-
		NME22A2/	Advanced Tamil II									
		OPS1210	Online course	-	-	-	-	-	-	-	-	Completion certificates
		CF22INST1	Internship – Industry/Design		60 Hours /15 Days						100	2
	V	21PELS1	Professional English for life science	AEC	3	26	4	2	50	50	100	2
V I	NM12GAW	General awareness		Self stu dy	-	1	-	-	-	-	Grade	

III			Group A – Core									
	I	TAM2203A/ HIN2203A/ FRE2203A	Language – Tamil / Hindi / French – Paper III	Languag e	4	58	2	3	50	50	10 0	3
	II	ENG2203A	English Paper III	English	4	58	2	3	50	50	10 0	3
	IIIA	CF22C03	Textile Science-paper- III	CC	5	73	2	3	50	50	100	3
	IIIA	CF22P03	Textile Science lab (practical – III)	CC	6	90	-	3	50	50	100	4
				Group B – Allied								
	IIIA	CF22AP3	Allied Practical -III Draping lab	GE	6	90	-	3	50	50	100	4
	III		Skill based Subject									
		CF22SB01	Skill based Subject SBS-Concepts of Fashion and Design	SEC	3	41	4	3	10 0		100	3
		NM22EVS	Foundation Course-II (Environmental Studies)*	AECC	-	-	-	-	10 0	-	100	Grade
		NM22UHR	Foundation Course-III (Universal Human Values and Human Rights)*	AECC	2	30	-	-	10 0	-	100	2
	VI		Job Oriented Course									Submission of Certificates

I V	I	TAM2204 A/ HIN2204A/ FRE2204A	Language – Tamil / Hindi /French - Paper IV	Langu age	4	58	2	3	50	50	100	3	
	II	ENG2204A	English Paper IV	Englis h	4	58	2	3	50	50	100	3	
	III		Group A – Core										
		CF22C04	Textile Processing- Paper-IV	CC	3	43	2	3	50	50	100	3	
		CF22P04	Apparel Design and development lab-II(Practical – IV)	CC	7	120	-	4	50	50	100	4	
			Group B – Allied IV										
		CF22AP4	Allied Practical – IV SurfaceOrnament ation Lab	GE	7	120	-	3	50	50	100	4	
			Skill based Subject – II										
		CF22SB02	Skill based Subject Clothing Care and Maintenance	SEC	3	43	2	2	10 0	-	100	3	
	IV	NM22DTG	Design Thinking	Finishin g school part-A	2	28	2	2	10 0	-	100	2	
		CF22INST 2	Internship – Industry / Design		60 Hours / 15 Days						100	2	
	V		Extension Activities										
		COCOACT	CO- CURRICULA R ACTIVITIES	-	-	-	-	-	-	-	-	-	1
			Community service – 30 hours										Subm ission of Certif icate

Semester	Part	Course Code	Title of the Course	Course Type	Instruction hours /week	Contact hours	Tutorial hours	Duration of Examinations hrs	Examination marks			Credits
									CA	ESE	TOTAL	
V	III	CF22C05	Fabric Formation Techniques	CC	4	58	2	3	50	50	100	4
		CF22P05	Sustainable Textile Processing and Printing Lab	CC	6	90	-	3	50	50	100	4
		CF22P06	Computer Aided Designing Lab	CC	6	90	-	3	50	50	100	5
		CF22P07	Design Research Lab	CC	6	90	-	3	50	50	100	5
		CF22E01 / CF22E02	Elective I Textile Printing Techniques	DSE	3	43	2	3	50	50	100	3
			Technical Textiles									
CF22AC1	Advanced Learner Course # Visual Merchandising	ACC	-	-	-	3	25	75	100	5 ^{\$}		
V/ VI	III	CF21SBC E / CF22SB03	Skill Based Course Coursera Course - Fashion Marketing / Apparel Marketing	SEC	3	45/ 41	- / 4	-/4	100 / 25	- / 75	100	3
V	IV	NM21CS1	Cyber Security	AEC	2	30	-	-	100	-	100	Gr
	III	CF22COM	Comprehensive Examination	GC	-	-	-	-	-	100	100	Gr.
I-V	VI	16BONL1 16BONL2	Online Course 1 Online Course 2	ACC	-	-	-	-	-	-	-	-

CC – Core Courses

GC – General Course

SEC – Skill Enhancement Course

ACC – Additional Credit Course

Compulsory Course

Self study

^{\$} Credits applicable to candidates who take up Advance Level Course examination

CA – Continuous Assessment

ESE - End Semester Examination

DSE – Discipline Specific Elective

AECC - Ability Enhancement

Gr – Grade

Semester	Part	Course Code	Title of the Course	Course Type	Instruction hours /week	Contact hours	Tutorial hours	Duration of Examinations hrs	Examination marks			Credits
									CA	ESE	TOTAL	
VI	III	CF22C06	Textile Testing and Quality Control	CC	4	58	2	3	50	50	100	4
		CF22P08	Computer Aided Apparel Designing Lab	CC	8	120	-	4	50	50	100	5
		CF22E03 / CF22E04	Organization of Garment Unit / Home Furnishing	DSE	3	43	2	3	50	50	100	4
		CF22AC2	ALC# Boutique Management	ACC	-	-	-	3	25	75	100	5 ^{\$}
		CF21SBCE / CF22SB03	Skill Based Course Fashion Marketing / Apparel Marketing	SEC	3	45/ 41	-/ 4	-	100	-	100	3
		CF22PROJ	Fashion Portfolio Project and Viva Voce	DSE	12	180	-	4	50	50	100	7
I - V	VI	16BONL1 16BONL2	Online Course 1 Online Course 2	ACC	-	-	-	-	-	-	-	-
I - VI			Total							3900	140	

CC – Core Courses

CA – Continuous Assessment

SEC – Skill Enhancement Course

ESE - End Semester

Examination

DSE – Discipline Specific Elective

ACC – Additional Credit Course

Self study

Gr – Grade

^{\$} Credits applicable to candidates who take up Advance Level Course examination

Coursera Course: Fashion Marketing / CF21SBCE

S.No	Topics of the course	Link of the course	Duration of hours
1	Fashion Retail Transformation	https://www.coursera.org/learn/fashion-retail-transformation	10
2	Fundamentals of Social Media Advertising	https://tinyurl.com/2cm9hen9	9
3	Pricing Strategy	https://www.coursera.org/learn/pricing-strategy	14
4	Management of Fashion and Luxury Companies	https://www.coursera.org/learn/mafash	12

QUESTION PAPER PATTERNS

Question Paper Pattern and distribution of marks UG Language and English

Language and English

Section A 6 x 2 (No choice) : 12 Marks

Section B 4 x 6 (4 out of 6) : 24 Marks (250 words)

Section C 2 x 12 (2 out of 3) : 24 Marks (500 words)

Total : 60 Marks

UG & PG- Core and Allied - (First 3 Units)

Question from each unit comprising of

One question with a weightage of 2 Marks : $2 \times 3 = 6$

One question with a weightage of 6 Marks (Internal Choice at the same CLO level) : $6 \times 3 = 15$

One question with a weightage of 12 Marks (Internal Choice at the same CLO level) : $12 \times 3 = 36$

Total : 60 Marks

End Semester Examination – Question Paper Pattern and Distribution of Marks

Language and English - UG

Section A 11 x 2 (11 out of 13) : 22 Marks

Section B 5 x 6 (5 out of 7) : 30 Marks (250 words)

Section C 4 x 12 (4 out of 6) : 48 Marks (600 - 700 words)

Total : 100 Marks

UG & PG - Core and Allied courses:

ESE Question Paper Pattern: 5 x 20 = 100 Marks

Question from each unit comprising of

One question with a weightage of 2 Marks : $2 \times 5 = 10$

One question with a weightage of 6 Marks (Internal Choice at the same CLO level) : $6 \times 5 = 30$

One question with a weightage of 12 Marks (Internal Choice at the same CLO level) : $12 \times 5 = 60$

Total : 100 Marks

CA pattern for 21-22 and 22-23 Batch

Theory

II & III Year UG / PG

CIA Test : 10 marks (Conducted for 60 marks after 50 days)

Model Exam : 20 marks (Conducted for after 85 days 100 marks (Each Unit 20 Marks))

Seminar/Assignment/Quiz : 10 marks

Class Participation : 7 marks

Attendance : 3 marks

Total : 50 Marks

Part IV

Value education / Environmental Studies / Design Thinking

Quiz : 50marks

Assignment : 25marks

Project / Case study : 25marks

Total : 100 Marks

Cyber Security I & II

Quiz : 60 Marks

Case Study : 20 Marks

Poster : 20 Marks

New changes for 22-25 and 21-24 batch is mentioned above. Departments to follow existing pattern for other courses (i.e, Practical, Internship, Project etc.)

INTERNSHIP TRAINING

The students have the option to select any organization – Government / private industries like textile industries, Designer boutiques and Jewell designers, CAD Designers, visual merchandiser, retail managers etc., in consultation with the staff co-coordinator & HoD. The students have to undergo training for a period of 15 Days at the end of II & IV semester. The students must maintain attendance, work diary and prepare report of the training undergone and submit the same to the department. On a stipulated date, there will be a viva-voce with internal examiners at the beginning of the semester. They have to produce industrial training certificate on the same day.

MODE OF EVALUATION	MARKS	TOTAL
Attendance	10	100
Work Diary	15	
Report	50	
Viva-voce	25	

Course No CF22C01	SEMESTER-I BASIC GARMENT CONSTRUCTION – PAPER I	Category	L	T	P	Credit
		Theory	56	4	-	3

Preamble

To impart thorough knowledge on the parts and function of the sewing machine and the basic garment parts construction techniques.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify the Sewing machine parts and their function, care and maintenance. Tools for measuring, marking, cutting and pressing.	K1
CLO2	Describe seams, seam finishes and fullness.	K2
CLO3	Develop the construction of plackets, sleeves, collars, yokes and fasteners as well as trims and decoration.	K3
CLO4	Analyse Industry 4.0 and 5.0	K4

Mapping with Programme Learning Outcomes

CLO S	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
CLO 1	S	S	S	S	S	S	S
CLO 2	S	S	S	S	S	S	S
CLO 3	S	S	S	S	S	S	S
CLO 4	S	S	S	S	S	S	S

S- Strong; M-Medium; L-Low

Syllabus

Unit I: - Sewing Equipment

and Seams

11 hrs

Sewing machines- parts and their function, care and maintenance. Tools for measuring, marking, cutting and pressing. Selection of thread and needle for various types of fabric. Seams, seam finishes and hems. Sewing techniques: Basic hand stitches- basting, running, tacking, hand overcast. Hemming stitches- plain and blind hemming, slip stitch, tailors tack. Domestic sewing machine, Industrial sewing machine. Special attachments.

Unit II: -Fullness, Skirts and Yokes**11 hrs**

Fullness: Definition, Types of fullness – Darts, Tucks, Pleats, flares, godets, gathers, shires and frills. Calculating the amount of materials for these types. Skirts: Different types of skirts – Drafting patterns for flares, gathered, pleated, gored, semicircular and circular skirts. Yokes: - Definition, selection of yoke design, creating variety in yoke. Drafting patterns for yoke without fullness yoke with fullness within the yoke and yoke supporting or releasing fullness. Attachment of yokes

Unit III: -Necklines, Plackets, Fastness and Pockets**12 hrs**

Neck Finishes: -Definition, Bias- definition, joining bias and uses. Bias facing and bias binding. Plackets- Definition, characteristics of a good placket, classification – continuous bound, bound and faced, fly opening, zipper, tailored and centre front / shirt placket. Fasteners, and button hole - Buttons and steps in attaching buttons, other types of fasteners. Button and button hole position and length of the button hole, types of buttonhole-Button loops-thread loops, fabric loop, corded loop, corded frogs buttons and its types. Pockets- Definition, classification, selection of pocket and creating variety in pockets.

Unit IV: -Sleeves, Collars and Trimmings**11 hrs**

Sleeves:- Classification of sleeves, types of sleeves- plain, puff at top, bottom, bell, bishop, circular, leg-o-mutton, sleeveless styles, kimono and raglan. Pattern preparation for these sleeves. Collars – definition, parts of collar, factors to be considered in designing collar, classification of collar. Drafting for peter pan, cape, scallop, puritan, sailors, chinese collar and Shirt collar. Trimmings - Definition, types -Bias trimming, Ricrac, ruffles, embroidery, smocking, faggoting, Applique, lace, lace motifs, Scalloped edging, decorative fastening – belts and bows

Unit V: - Basic Garment Construction Related Industries - 4.0**11 hrs**

Introduction to Garment related Industries 4.0 and 5.0
Adoption of industries 4.0 in the garment sector- Definition, Need, Goals, Design Principles and technologies, skills and advancements. Impact of garment related Industries 4.0 on Society, Business, Government and People.

Reference Books

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Mary Mathews	Practical Clothing Construction Part-II. Designing	Drafting and tailoring Bhattarams Reprographics (P) Ltd	1991
2	Zarapkar K.R	System of Cutting	Navneet Publications India	2005
3	Hilary Campbell	Designing Patterns	Om Book Services, New Delhi	2003

4	Helen Joseph	Pattern Making for Fashion Design	Armstrong Pearson Education, Delhi	2000
5	Kaliraj.P, Devi.T	Higher Education for Industry 4.0 and Transformation to Education 5.0	MDPI Multidisciplinary Digital Publishing Institute	2020
6	Gerry Cooklin	Introduction to Clothing Manufacture, second edition Revised by Steven Hayes and John Mcloughlin	Blackwell publishing	1991
7	<p>ONLINE REFERENCE:</p> <ul style="list-style-type: none"> • Introduction to Industry 4.0 and Industrial Internet of Things by Prof.Sudip Mishra, IIT Kharagpur. • A Complete Guide to Industry 4.0- Udemy. 			

Course Designer

Dr.R.Radhika

Course No CF22P01	SEMESTER-I BASIC GARMENT CONSTRUCTION LAB- (PRACTICAL - I)	Category	L	T	P	Credit
		Practical	-	-	90	6

Preamble

To impart skills on basic garment parts construction techniques.

Course Learning Outcomes

CLOs Number	CLO Statement	Knowledge Level
CLO1	Select and maintain the sewing machines.	K2
CLO2	Develop the samples with seams and fullness.	K3
CLO3	Produce the suitable Facing and Binding samples.	K3
CLO4	Prepare the miniature samples plackets, fasteners, sleeves, yokes, collars, pockets and mask	K3

On the successful completion of the course, students will be able to

Mapping with Programme Learning Outcomes

CLOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
CLO 1	S	S	S	S	S	S	S
CLO 2	S	S	S	S	S	S	M
CLO 3	S	S	M	S	S	S	S
CLO 4	S	S	S	M	S	S	S

S- Strong; M-Medium; L-Low

Syllabus

1. Demonstrating- operating, cleaning and oiling of sewing machine. **5hrs**
2. Preparation of samples for seam – plain, top stitched, flat fell, piped, mantua maker seam. **8hrs**

3. Preparation of samples for seam finishes- Edge stitched, double stitch, overcast, bound, hem and darning methods.	8hrs
4. Preparation of samples for fullness-Darts, tucks- pin tucks, cross tucks, Group tucking with scalloped effect, Pleats- knife pleat, box pleat, kick pleat, fan pleat.	8hrs
5. Preparation of samples for fullness-Gathering – Gathering by hand, machine, elastic, Ruffle- single, double, circular, Godets.	8hrs
6. Preparation of samples for facing and binding- bias facing, shaped facing and binding.	8hrs
7. Preparation of samples for Plackets- continuous bound, Two-piece placket, zipper and tailored placket.	8hrs
8. Preparation of samples for fasteners - button and buttonhole, Hook and eye and Press button.	5hrs
9. Preparation of samples for sleeves- plain sleeve, puff sleeve, Raglan sleeve and cap sleeve.	8hrs
10. Preparation of samples with yoke- partial yoke, simple yoke and yoke supporting fullness.	8hrs
11. Preparation of samples for collar and Pocket- Peter Pan collar, shirt collar and shawl collar, patch pocket, bound pocket and side pocket.	8hrs
12. Preparation of sample for mask – pleated mask and padded mask.	8hrs

Online Referance :

<https://youtu.be/j434tTfoYME>

Course Designer:

Dr.R.Radhika

Course No CF22AP1	SEMESTER-I ALLIED PRACTICAL - I FASHION DESIGNING AND BASIC ILLUSTRATIONS LAB (PRACTICAL)	Category	L	T	P	Credit
		Practical	-	-	90	5

Preamble

To give training on illustrating fashion concept and theories.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowldge Level
CLO1	Illustrate the motif of the embellishment.	K2
CLO2	Illustrate elements and principles of design, colour theories and harmonies.	K3
CLO3	Develop the garment components and accessories.	K3
CLO4	Determine the details of fullness	K4

Mapping with Programme Learning Outcomes

CLOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PL0 6	PLO 7
CLO 1	M	S	S	M	L	M	M
CLO 2	S	S	S	M	L	S	S
CLO 3	S	S	S	M	L	S	S
CLO 4	S	S	L	M	M	S	S

S- Strong; M-Medium; L-Low

Syllabus

1. Elements of Lines (Straight, Wavy, Radiating related to Textile stripes), dots, checks, curves and Points, Form, Shape, Size, Texture. Dawing Techniques- Shading, Smudging, hatching techniques (Cross hatching, Scribbling, Doodling) **10 hrs**

2. Fabric Rendering – learning to simulate textures of various fabrics – Velvet, Silk, Fur, Denim, Printed cotton, Lace, Net, Embroidery, Leather, Satin, Sequins. (Each-1) Design a dress using any one Fabric Rendering. **10 hrs**
3. Types of Motifs (any-1) -(Natural/ Geometric/Abstract/Stylized/Conventional motifs) Enlarging and Reducing Motifs- Grid techniques of drawing **9 hrs**
4. Application of Elements of Design in Garments-line, Colour, Texture, Shape and Size. **8 hrs**
5. Application of Principles of Design in Garments- Harmony, Rhythm, Proportion, Balance (Symmetrical and Asymmetrical balance) and Emphasis **9 hrs**
6. Preparation of colour charts –Prang Color Chart, Value chart and Intensity charts. **10 hrs**
7. Application of Colour Harmony in garment design – Monochromatic Complementary colour harmony, Split complementary Colour harmony, Triad and Tetradic colour harmony **9 hrs**
8. Illustrating details of Fullness-pleats, ruffles, shirring and smocking. (Each 2) **8 hrs**
9. Illustrating Features and Garments -pockets, Collars, sleeves, yokes, skirts, trousers, tops. (Each 2) **8hrs**
10. Illustrating Ornaments and Accessories – Necklace, Bracelet, Earring , Rings, Head Piece, hat, handbags, Shoes, gloves, coolers and masks. Anklet. (Each 5) **9hrs**

Reference link

Ex no :1 <https://youtu.be/UwbjsrY2ps8>
 Ex no:2 <https://youtu.be/phO4E2A4KKg>
 Ex no:3 <https://youtu.be/Q0W39iKaEmQ>
 Ex no: 5 <https://youtu.be/bDDyDvUYJoI>
 Ex no:8 <https://youtu.be/fGVdntklOMg>

Course Designer:

Dr.R.Radhika

Course No CF22C02	SEMESTER-II PATTERN MAKING AND GRADING – THEORY- II	Category	L	T	P	Credit
		Core	56	4	-	3

Preamble

To impart knowledge on methods of pattern making, grading, pattern alteration and pattern layout.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Define body measurement, pattern making and shifting darts.	K1
CLO2	Explain the importance of body measurements, pattern making, and styles creates by shifting of blouse darts, fitting pattern alteration and pattern layout.	K2
CLO3	Grading the bodice front, back and sleeve and then transfer into a fabric for cutting.	K3
CLO4	Analyze the layout, types of layout and adjustment of cloth if insufficient to pattern.	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO 3	PLO 4	PLO 5	PL0 6	PLO 7
CLO1	S	S	S	S	M	S	S

CLO2	S	S	S	S	M	S	S
CLO3	S	S	S	S	M	S	M
CLO4	S	S	S	S	S	S	M

S- Strong; M-Medium; L-Low

Syllabus

UNIT I

11 hrs

Body measurement –importance, preparing for measuring, ladies measurements, boys and men’s measurements. Standardizing body measurements –importance, techniques used. Relative length and girth measures in ladies /gentlemen.

UNIT II

11 hrs

Pattern making –method of pattern making – (Drafting and draping), merits and demerits.Types of paper patterns (Patterns for personal measurements and commercial patterns) Principles of pattern drafting.Pattern details, steps in drafting basic bodice front and back and sleeve.

UNIT III

11 hrs

Styles created by shifting of blouse darts, adding fullness to the bodice, converting darts to seam and partial yokes and incorporating darts in to seams forming yokes. Fitting - Standards of a good fit, steps in preparing a blouse for fitting, checking the fit of a blouse, solving fitting problems in a blouse, fitting techniques.

UNIT IV

11 hrs

Pattern alteration – importance of altering patterns, general principles for pattern alteration, common pattern alteration in a blouse. Pattern grading –definition, types, manual –master grades, basic front, basic back basic sleeve, basic collar and basic grading.

UNIT V

12 hrs

Pattern layout- definition, purpose, rules in layout, principles of pattern layout , types of layouts for length wise stripped designs, fabric with bold design, asymmetric designs and one way designs. Remedies for insufficient cloth, fabric cutting, transferring pattern marking, stay stitching, ease stitching. Preparation of fabric for cutting –importance of grain in cutting and construction, steps in preparing the fabric for cutting.

Reference Books

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Mary Mathews	Practical clothing construction	Cosmic press Chennai	1986
2	Gerry cookline	Pattern Grading for women’s clothing	Blackwell Science Ltd	1990

3	Zarapker.	Zarapker system of cutting	Navneet publications Ltd	2006
4	ConneAmaden	Crawford, "Fashion Sewing: Advanced Techniques"	Bloomsbury Publishing Plc.,UK	2015
5	Helen Joseph Armstrong	Pattern Making for Fashion Design	Pearson Education (Singapore) Pvt Ltd	2005
6	Helen Joseph	Patternmaking for Fashion Design	Peason Educations, New Delhi	2013
7.	Kathy K. Mullet	Concepts of Pattern Grading Techniques for Manual and Computer Grading	Bloomsbury Publishing	2015
8	Sterlacci , Francesca	Pattern making : techniques for beginners	Laurence King	2019
9.	Nakamichi , Tomoko	Pattern magic 3 English edition.	Laurence King	2016

Course Designer:

Dr.R.Radhika

Course No CF22P02	SEMESTER-II APPAREL DESIGN AND DEVELOPMENT LABORATORY – I (PRACTICAL – II)	Category	L	T	P	Credit
		Practical	-	-	90	6

Preamble

To train the students with designing, drafting and construction of children's garments.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Design and Illustrate children's garment.	K2
CLO2	Draft and construct the design for children's garment	K3
CLO3	Select and apply suitable decorative finishes for emphasis the garment and Calculate the material and fastener requirement for each garment.	K4
CL04	Design development, pattern development and product development for a particular garment	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CLO1	S	S	S	S	S	S	S
CLO2	S	S	S	S	S	S	S
CLO3	S	S	S	S	S	S	S

CLO4	S	S	S	S	S	S	S
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S- Strong; M-Medium; L-Low

Syllabus

Designing, drafting and constructing the following garment.

- | | |
|---|---------------|
| 1. Bib and Bonnet | 8 hrs |
| 2. Baby wrapper and Apron | 8 hrs |
| 3. Mittens and Booties | 8hrs |
| 4. Jabla and Panty | 8 hrs |
| 5. Jumpsuit | 8 hrs |
| 6. Summer frock | 8 hrs |
| 7. Yoke frock- | 10 hrs |
| 8. Kid's Waist Coat | 8 hrs |
| 9. Bloomers | 8 hrs |
| 10. Design Development (any one Garment) | 6 hrs |
| <ul style="list-style-type: none"> • Research • Finalization of Theme • Sourcing • Finalization of Designs • Measurements and Specification sheets | |
| 11. Pattern Development | 10 hrs |
| <ul style="list-style-type: none"> • Development of Basic Blocks • Pattern Making and Layout | |

Product Development

- Construction on actual fabric
- Photo shoot
- Compose the above details as portfolio sheets

Reference:

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Emma Hardy	Making children's clothes	Cico	2009
2	Laura strutt	Sewing for babies and children	Freelance	2017
3	Rene Bergh	Kids clothes sew easy	Struik publisher	2003
4	Yoshiko Tsukiori	Girls style book	Tuttle publishing	2012

Course Designer:

Dr.R.Radhika

Course No CF22AP2	SEMESTER-II ALLIED PRACTICAL – II FASHION ILLUSTRATION PRACTICAL	Category	L	T	P	Credit
		-	-	-	90	5

Preamble

To give a thorough knowledge on illustrating the boy, girl, women and men figures with three views, accessories, head theories, fashion figures. Designing boy, girl, women, garments with seasons.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowldge Level
CLO1	Illustrate –front, back and side view and poses of boy, girl, women and men.	K2
CLO2.	Features of human body and Develop designs for different wears.	K3
CLO3	Illustrate garments for men, women and children with different seasons. Illustrate the photographic poses to fashion stylized figures.	K3
CLO4	Design development and product development for a Portfolio designs	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PL06	PLO 7
CLO1	S	S	S	S	S	S	S
CLO2	S	S	S	S	S	S	S
CLO3	S	S	S	S	S	S	S

CLO4	S	S	S	S	S	S	S
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S- Strong; M-Medium; L-Low

Syllabus

The students will be given knowledge to develop the skill of sketching.

1. Illustrating human figure in proportion using 8, 9 to 12 head theory –Stick figure, block figure and fleshy figure in standing poses and body figure, features and hair styling basics **8 hrs**
- a. Illustrating detail -Eyes, Ears, Nose, Lips, Fingers, Feet, Hand and Legs **8 hrs**
2. Illustrating fashion figure – in Front View, Back View, Side View **8 hrs**
3. Different postures of fashion figure- S, X , T pose. **8 hrs**
4. Create Flat Sketches for Children - Casual Wears, Night Wear and Picnic Wear with Back Ground. **8 hrs**
5. Designing Flat Sketches for Men - office wear and sportswear with back ground. **7 hrs**
6. Designing Flat Sketches for women - party wear and lingerie with back ground. **7 hrs**
7. Design and Illustrate traditional costume any two states of India. **8 hrs**
8. Create Fashion Illustration from Magazines/photography. **6 hrs**
9. Designing garment with croquis from selected theme/inspiration. **8 hrs**
- 10.Design Development(Men's/Women's/Children's) **7 hrs**
 - Research
 - Finalization of Theme
 - Sourcing
 - Fabric Board
 - Color board
 - Finalization of Designs
- 11.Product Development** **7 hrs**

Flat sketch to Final Sketch based on theme

 - Preparation of Mood board
 - Photo shoot
 - Compose the above details as portfolio sheets

Reference:

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Parragon (Author)	Fashion Handbook: Everything You Need to Know About Style (Girls Only) Hardcover	Parragon Inc	(1 February 2008)

2	Lisa Steinberg (Author)	Beginner's Guide to Sketching the Fashion Figure: Croquis to Design - Bundle Book + Studio Access Card Paperback	Fairchild Books	(2 April 2020)
3	<u>Lisa Steinberg</u> (Author)	Beginner's Guide to Sketching the Fashion Figure	Bloomsbury Publishing	Feb 20 2020

Course Designer:

Dr.R.Radhika

Course No CF22C03	SEMESTER-III TEXTILE SCIENCE	Category	L	T	P	Credit
		Theory	43	2	-	3

Preamble

To impart knowledge on the process sequence of fibre to fabric.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify the textile fiber	K1
CLO2	Associate the properties and manufacturing process for different fibers	K2
CLO3	Discover the process involved in yarn formation, weaving and knitting.	K2
CLO4	Analyse the procedure involved in other fabrication methods	K4

Mapping with Programme Outcomes

CLOs	PL01	PL02	PL03	PL04	PL05	PL06	PL07
CLO1	M	M	M	M	S	M	M

CLO2	M	M	M	M	S	M	M
CLO3	M	M	M	M	S	M	M
CLO4	M	M	M	L	S	M	M

S- Strong; M-Medium; L-Low

Syllabus

Unit-I 8 hrs

Definition of Textile Fibers, Classification of Fibers. Properties and manufacturing process of Natural Fibers-* Cotton, Linen, Jute, Pineapple, Hemp, Bamboo, Banana, Silk, Wool and Hair fibers*.

Unit-II 8 hrs

Properties and manufacturing process of Manmade Fibers- Viscose Rayon, Polyester, Nylon, *Nylon 66 and Acrylic*.

Unit-III 9 hrs

Yarn manufacturing- Definition and Sequential process -*Blending, Opening, Cleaning, Doubling, Carding, Drawing, Roving, Spinning*.Classification of Yarn – Simple, Lycra and Fancy yarns. Sewing thread and its properties.

Unit-IV 9 hrs

Weaving- Sequential process in weaving- winding, warping, sizing, beaming, weaving. Types of weaves- basic weaves – Plain, twill, satin, Sateen, Fancy weaves- pile, double cloth, leno, swivel, dobby and jacquard.

Unit-V 9 hrs

Knitting- Definition –classification, Types of knitting. Weft knitting-Single jersey, rib, interlock, jacquard, Warp knitting – Tricot, Rachel. Non-wovens -Definition, Types of non-wovens, manufacturing process and properties of felting, bonding, lamination, braiding.

*Blended Mode of Learning

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar, demonstration

Reference Book

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Corbmann B.P	Textiles –fibre to fabric, International student's edition	McGraw Hill, Singapore	1985
2	Joseph J Pretal	Fabric Science 5th edition	Fairchild Publications, Newyork	1990

3	David spencer	Knitting technology	pergamen press, Oxford	1982
4	H.V.Sreenivasa Murthy	Introduction to textile fibres (revised edition)	woodhead publishing India in textiles	30th June 2015
5	Xiaogang Chen	Advances in 3D textiles	woodhead publishing India in textiles	28th May 2015
6	RavindraAdivare , Mohammad Shadid	Advances in functional finishing of textile	Springer	10th June 2020
7	Subramanian SenthikannanMuthu	Chemical Management in textiles and fashion	Elsevier	29th Sep 2020
8	Cristina Carvalho, GianniMontagna	Textiles, Identify and Innovation	CRC Press Taylor and Francis group	2020

Reference link

UnitIV - <https://textilelearner.net> > sateen-weave-features-classifi...

UnitV - <https://www.sciencedirect.com/topics/engineering/circular-knitting-machine>

CourseDesigners:

Dr.R.Radhika

Course No CF22P03	SEMESTER-III TEXTILE SCIENCE LAB	Category	L	T	P	Credit
		Practical	-	-	60	4

Preamble

To identify fiber and perform fiber yarn and fabric test.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify the different Textile fibre	K2
CLO2	Describe the Yarn count, Twist, weight and Fabric Count	K2
CLO3	Calculate the Course and Loop Length of Knitted Fabric	K3
CLO4	Analyze the color fastness, shrinkage and Absorbency of given Fabric	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06	PL07
CLO1	M	M	M	M	S	M	S
CLO2	M	M	M	S	M	S	S

CLO3	M	M	M	M	S	M	S
CLO4	M	M	M	M	S	S	S

S- Strong; M-Medium; L-Low

Syllabus

Identification of Textile Fibres

Cotton, Silk, Wool, Nylon, Polyester, Linen, Rayon, Jute, Bamboo and Banana.

- | | |
|-----------------------|--------------|
| 1. Microscopic Method | 8 hrs |
| 2. Flame test. | |
| 3. Chemical test. | |

Testing of yarns:

- | | |
|--|--------------|
| 1. Counting of the yarn using wrap reel. | 6 hrs |
| 2. Counting of the yarn using Beasley's balance. | 6 hrs |
| 3. Twist of the yarn using twist tester. | 6 hrs |

Testing of Fabric:

- | | |
|---|--------------|
| 1. Determining the weight of the fabric. | 6 hrs |
| 2. Determining the fabric count by | 6 hrs |
| a. Ravelling method | |
| b. Pick Glass method | |
| 3. Course length and loop length of knitted fabric. | 6hrs |
| 4. Colour fastness test- Wash, Light | 6hrs |
| 5. Shrinkage Test. | 5hrs |
| 6. Absorbency Test. | 5hrs |

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration.

Reference link

EX:NO:2(1) <https://textilelearner.net/determination-of-the-yarn-count-by-wrap-reel/>

EX:NO:2(2) <https://www.testing-instruments.com/blog/determine-the-exact-weight-and-length-of-yarn-with-bee-sley-balance/>

EX:NO:2(7) <https://textilelearner.net/determine-color-fastness-to-wash/>

Course Designer

Dr.R.Radhika

Course No CF22AP3	SEMESTER-III ALLIED PRACTICAL -III DRAPING LAB	Category	L	T	P	Credit
		Practical	-	-	60	4

Preamble

To teach the students the basic principles of draping. To enable students to create their own designs on a three-dimensional dress form using draping method.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Describe fabric for draping and pattern conversion for basic blocks.	K2
CLO2	Express patterns for sleeves, collars and yokes by draping method.	K2
CLO3	Develop patterns for yokes and skirts by draping method.	K3
CLO4	Determine and develop patterns for shirts by draping method.	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06	PL07
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CLO1	S	M	L	S	S	S	L
CLO2	S	S	L	S	S	S	L
CLO3	S	M	L	S	S	S	L
CLO4	S	S	S	S	S	S	M

S- Strong; M-Medium; L-Low

Syllabus

1. Preparation of fabric and draping - front bodice, back bodice and sleeve. **6 hrs**
2. Conversion of drape fabric into pattern- front bodice, back bodice and sleeve. **5 hrs**
3. Preparation of fabric and draping for sleeves- Raglan sleeve and cowl sleeve. **6 hrs**
4. Conversion of drape fabric into pattern for sleeves- Raglan sleeve and cowl sleeve. **5 hrs**
5. Preparation of fabric and draping for collars- Peter pan, Mandarin and Shawl Collar. **6 hrs**
6. Conversion of drape fabric into pattern for collars- Peter pan, Mandarin and Shawl Collar. **6hrs**

7. Preparation of fabric and draping for yokes - Shirt yoke, partial yoke and midriff yoke. **6hrs**
8. Conversion of drape fabric into pattern for yokes- Shirt yoke, partial yoke and midriff yoke. **6hrs**
9. Draping basic skirts –Plain skirt, Pleated skirt and Flared skirt. **8hrs**
10. Conversion of drape fabric into pattern –Plain skirt, Pleated skirt and Flared skirt. **6hrs**

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration.

Reference Link:

Ex no: 2 <https://youtu.be/BhG9Sp3UutI>
 Ex no: 7 <https://youtu.be/SXNgrRp2EU4>
 Ex no : 8 https://youtu.be/jJ_RnpbGzbc

Course Designers:

Dr.R.Radhika

Course No CF21SB01	SEMESTER-III SBS - CONCEPTS OF FASHION AND DESIGN	Category	L	T	P	Credit
		Theory	41	4	-	3

Preamble

To understand the effect of various social and psychological factors on clothing. To study the psychological effect of clothing on the individual in social situations. To impart knowledge on fashion, fashion designers and world fashion centers.

Course Learning Outcomes

On the successful completion of the course, students will be able to .

CLO Number	CLO Statement	Knowledge Level
CLO1	Define fashion, fashion terms and concepts.	K1
CLO2	Describe Fashion Cycle.	K2
CLO3	Construct Fashion Trends with Designers Idea	K3
CLO4	Analyse Fashion Forecasting	K4

Mapping with Programme Learning Outcomes

CLOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7
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CLO 1	S	S	S	S	S	M	M
CLO 2	S	S	S	S	M	S	M
CLO 3	S	S	S	S	M	M	S
CL04	S	S	M	S	S	S	M

S- Strong; M-Medium; L-Low

Syllabus

UNIT-I

8 hrs

Definition of fashion concepts. Terms related to the fashion clothing - fashion, style, fad, classic, and collection, chic, custom made, mannequin-types of mannequin, vintage, capsule wardrobe, boho, elegant, vogue, brand, ready-to-wear, silhouette, designerlabel, mass fashion, knock off/high street, avantgrade, fashion show, trend, forecasting, high fashion, fashion cycle, haute couture. Consumer groups in fashion cycles – fashion leaders, fashion innovators, fashion motivation, fashion victim, fashion followers

UNIT II

8 hrs

Design – definition, Design types- natural, stylized, geometric, historic and abstract, garment design- structural, decorative and functional. Elements and principles of design. Color – Definition, Dimensions of colour- Hue, Value and Intensity, Colour categories And psychology - Warm and Cool colours, advancing and receding colours, Colour theories – Prang colour system and Munsellcolour system - colour harmonies.

UNIT - III

9 hrs

Principles of fashion movement, fashion evolution, fashion cycle – length of fashion cycle, Adoption of fashion – trickle down, trickle up and trickle across theory, Reverse adoption. Factors influencing fashion changes –psychological needs of fashion, social psychology of fashion, technological, economical, political, legal and seasonal influence. Role of costume as a status symbol, personality and dress, clothes as sex appeal, cultural value fashion cycles, repetition of fashion. Fashion services, video services, news letter services, web sites, directories and references.

UNIT -IV

8 hrs

*Understanding fashion designer - Indian and global fashion designers. Haute couture - Indian fashion designers – **sabyasachimukherji, rohitbal, manishmalhotra, taruntahiliani, masaba, abujani and Sandeep khosla, neetalulla, ritukumar, rituberi, anitadongre** . World fashion centers –france, italy, america, britain. Fareast- Contributions of well-known designers from France-Agnes, Sophie Albou Italy- Pierre Cardin, Roberto Cavalli America - Adams Adrian, Joseph Abboud. Britain - Basso & Brooke and Fareast Countries - Sandy Powell, Valentino Garavani*.

UNIT -V

8 hrs

Fashion Forecasting – role of forecasting agencies, techniques and presentation of forecast. Design process – Innovation of practice, analyzing the brief, Research inspiration – Research direction, prototyping, planning a collection, designer boards, ethnographic research, trend forecasting and portfolio presentation. Organizing fashion show.

*Blended Mode of Learning

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar, demonstration.

Reference Books

S.No.	Author	Title of the Book	Publishers	Year of publication
1.	London College of Fashion	Fashion:Cultural History Psychology	London College of Fashion,UAL	16th May 2016
2	Kim.P.Johnson, Nancy Ann Rudd,SharronJ. Lennon	Social Psychology of dress	Bloomsbury	2017
2	Margaux Baum,Margaret Scott	Fashionand clothing(Life in the middle age)	Rosen central	1st Jan 2017
3	Carolyn mair	The Psychology of Fashion	Routledge London	March 2018 1 st edition
4	Mary Ellen Snodgrass	World Clothing and Fashion	routledge	28th march 2019

Online Reference Link

<https://textilelearner.net/stages-of-fashion-cycle/>
<https://www.slideshare.net/Tamilselvan245/fashion-cycle-adaption-of-fashion>
<https://pahaldesign.com/10-best-fashion-designer-of-world/>
<https://www.cosmopolitan.com/style-beauty/fashion/g34647685/indian-fashion-designers/>
Blended Mode of Learning
<https://shilpaahuja.com/20-top-fashion-designers-india/>
<https://pahaldesign.com/10-best-fashion-designer-of-world/>
<https://www.wgsn.com/en/products/fashion>

Course Designers:

Dr.R.Radhika

Course No CF22C04	SEMESTER-IV TEXTILE PROCESSING PAPER IV	Category	L	T	P	Credit
		Theory	43	2	-	3

Preamble

To familiarize the students with different textile pretreatment processes and finishing processes.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Define preparatory process of gray fabric	K1
CLO2	Contrast Mercerization and bleaching process	K2
CLO3	Apply Printing and Dyeing techniques on textile materials	K3
CLO4	Categorize the Textile Effluent Management	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06
CLO1	M	S	L	M	S	S
CLO2	M	S	L	M	S	S
CLO3	M	S	L	M	S	S
CLO4	S	S	S	S	S	M

S- Strong; M-Medium; L-Low

Syllabus

Unit-I

8 hrs

Primary sequential processes and methods - Singeing, Desizing, Scouring, Bleaching. Synthetic fiber Heat setting, Wool carbonizing, Weighting of silk. Dry Processing Equipment. Wet processing equipment – kier – J box – pad roll – U box – Roller bed – Conveyor steamer – stenter.

Unit-II

9 hrs

Mercerization – Theory process - Methods – Chemicals – effects. Beaching – Hypo chlorites – Hydrogen peroxide – sodium chloride. Equipments and chemicals for bleaching of cotton, viscose, cotton/ viscose, Polyester/cotton. Evaluation of bleached fabric – whiteness – absorbency – chemical damage - residues. Wet processing of Knitted fabric – scouring – Bleaching, dyeing – printing calendaring. Shrink controlling – steaming.

Unit-III

9 hrs

Dyeing – classification of colorants – fastness properties of dyes. Dyeing machines – fiber, yarn and fabric dyeing machines – loose stock fiber bale – hank package – jigger – winch – HT Beam jet – padding mangles. Garment dyeing machines.

Unit - IV

9 hrs

Printing - styles of printing – direct – discharge – resist styles. Methods of printing – screen printing – automatic screen printing – roller printing – rotary printing – transfer printing. Fixation and aftertreatment. Implementation of recent printing techniques in Textile processing Industries.

Unit-V

8 hrs

Textile Effluent Management-Introduction to Textile Effluents-types of effluents-concept of Zero discharge- Sludge disposal -Analysis of effluents- Treatment of Textile effluents - Flocculation and Coagulation, Oxidation, Sedimentation, Filtration. Structure of Effluent Treatments plants, Reuse of textile waste water.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz,

peer learning, seminar, demonstration.

Reference book:

S.No.	Author	Title of the Book	Publishers	Year of publication
1	Dr. H. Panda	Modern Technology of Textile Dyes & Pigments (2nd Revised Edition)	Niir Project Consultancy Services	2016
2	Maniyasakam.N	Treatment Of Textile Processing Effluents	Meyer Rosen To Host In-Cosmetics, North America.	2017
3	Dr. Himadri Panda	The Complete Technology Book on Dyes and Dye Intermediates (2nd Edition)	Niir Project Consultancy Services	2021

Reference link:

- <https://www.dow.com/en-us/market/mkt-textile-leather-nonwoven/sub-textiles-pre-treatment-processing.html>
- <https://www.slideshare.net/sheshir/mercerization>
- <https://textilelearner.net/different-types-of-textile-dyeing-machines/>
- <https://www.britannica.com/topic/textile/Printing>
- <https://www.hindawi.com/journals/jchem/2021/5314404/>

Course Designers

Dr.R.Radhika

Course No CF22P04	SEMESTER-IV APPAREL DESIGN AND DEVELOPMENT LAB-II (PRACTICAL IV)	Category	L	T	P	Credit
		Practical	-	-	120	4

Preamble

To design, draft and construct women's and men's garments.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Illustrate designs for women's and men's garment	K2
CLO2	Draft the pattern and cut the fabric	K2
CLO3	Construct the garment as per the design	K3
CLO4	Calculate the cost expenditure and profit	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06
CLO1	S	S	M	S	S	S
CLO2	S	S	S	S	S	S
CLO3	S	M	S	S	S	S
CLO4	S	S	S	M	M	M

S- Strong; M-Medium; L-Low

Syllabus

Designing, Drafting, construction and Cost Estimation of the following garments.

1. Designing and pattern development - Skirt- plain / circular / panel. **10hrs**
2. Garment development and cost estimation - Skirt- plain / circular / panel **10hrs**
3. Designing and pattern development -Salwar and kameez **.10hrs**
4. Garment development and cost estimation - Salwar and kameez. **13 hrs**
5. Designing and pattern development - Saree Blouse with sleeves **10 hrs**

- | | |
|--|---------------|
| 6. Garment development and cost estimation - Saree Blouse with sleeves | 12hrs |
| 7. Designing and pattern development - Formal shirt | 10hrs |
| 8. Garment development and cost estimation - Formal shirt | 13 hrs |
| 9. Designing and pattern development - Formal trousers. | 10hrs |
| 10. Garment development and cost estimation - Formal trousers | 12 hrs |
| 11. Design Development (any one Garment specified above) | 10hrs |
- Research
 - Finalization of Theme
 - Sourcing
 - Finalization of Designs
 - Measurements and Specification sheets, Pattern Development
 - Development of Basic Blocks
 - Pattern Making and Layout
- Product Development
- Construction on actual fabric
 - Photo shoot
 - Compose the above details as portfolio sheets

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration.

Reference link:

Ex No: 2 -<https://www.stylecraze.com/articles/types-of-skirts/>

Ex No: 4 -https://www.youtube.com/watch?v=103QGBR_pAY

Course Designers

Dr.R.Radhika

Course No CF22AP4	SEMESTER-IV SURFACE ORNAMENTATION LAB – (Allied Practical IV)	Category	L	T	P	Credit
		Practical	-	-	120	4

Preamble

To familiarize the students with various embroidery stitches and surface ornamentation techniques.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Explain suitable stitches for embroidery designs.	K2
CLO2	Apply different Hand and Machine Embroidery techniques on fabrics.	K3
CLO3	Develop samples by using Mirror, sequence work and Flower making.	K3
CLO4	Design Development and Product development for any one Experiment	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06
CLO1	S	S	L	S	S	S
CLO2	S	S	L	S	S	S
CLO3	S	S	M	S	S	S
CLO4	S	S	S	S	M	S

S- Strong; M-Medium; L-Low

Syllabus

1. Hand embroidery - 10 stitches and fancy embroideries – 5 stitches (5samples with 15 stitches)	15hrs
2. Machine Embroidery- 5 stitches - 3 samples.	12hrs
3. Applique- 3 types– hand, machine and iron applique	13 hrs
4. Smocking -3types	16 hrs
5. Tatting and crochet	9 hrs
6. Bead Work, Sequins work and Aari work –each one sample	12 hrs
7. Zardosi work -1 sample	4 hrs
8. Patch work and Quilting	9hrs

9. Traditional embroideries of India – Pulkari, Kasuti, kashida, chickenkari, kanta and kutch – each one sample. 18 hrs
10. Design Development (any one Experiment) 6 hrs
- Research
 - Finalization of Theme
 - Sourcing
 - Finalization of Designs
 - Colour board
 - Moodboard
 - Measurements
11. Product Development 6 hrs
- Motif Development
 - Construction of product
 - Photo shoot
 - Compose the above details as portfolio sheets

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration.

Reference book:

S.No	Author	Title of the Book	Publishers	Year of publication
1	Shailaja D. Naik	Traditional Embroideries of India	APH Publishing	1996
	Rozella Florence Linden	Easy tatting	Courier corporation	2013
2	Anon	Tatting- a fascinating book of delicate lace designs	Read Books limited	2016
3	Lauren Espy	Crochet café Recipes for Amigurumi crochet patterns	Blue star press	2020

Reference link:

<https://youtu.be/ck2SJvspBh4>
<https://youtu.be/u8dr2bjUKxo>
<https://youtu.be/B1pnAN6x394>
<https://youtu.be/6jOuF65d3zw>
https://youtu.be/TOTHI_3NtRk
<https://youtu.be/R8dTNfAOCtI>
<https://youtu.be/Uo1ueLk11vA>

Course Designers

Dr.R.Radhika

Course No CF22SB02	SEMESTER-IV CLOTHING CARE AND MAINTENANCE	Category	L	T	P	Credit
		Theory	43	2	-	3

Preamble

To gain knowledge on care and maintenance of textiles.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Define the characteristics of water	K1
CLO2	Explain the washing and laundering equipments of different fabrics	K2
CLO3	Choose the appropriate laundering method for different fabrics.	K3
CLO4	Examine the principle of washing and identify the types of stains	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05	PL06
CLO1	M	L	L	M	S	M
CLO2	M	L	L	M	S	M
CLO3	M	L	L	M	S	M
CLO4	M	M	S	S	S	M

S- Strong; M-Medium; L-Low

Syllabus

UNIT-I

8 hrs

Clothing –types and maintenance, Water- hard and soft water, methods of softening water. Laundry soaps – Manufacture of soap - hot process and cold process, composition of soap types of soap, soap less detergents, chemical action, detergent manufacture, advantages of detergents.

UNIT-II

8 hrs

Finishes – Stiffening Agents – Starch - cold water and hot water, other stiffening agents, preparation of starch. Laundry blues and their application. Fabric conditioners.

UNIT-III**9 hrs**

Laundry equipment – for storage, for steeping and Washing – Wash board, suction washer, wash boiler, washing machine. Drying equipments – outdoor and indoor types. Irons and ironing board – types of iron - box, flat, automatic, steam iron. Ironing board – different types.

UNIT-IV**9 hrs**

Principles of washing, Types of Washing - suction washing, washing by kneading and squeezing, washing by machine, Smart washing- process details. Laundering of different fabrics – cotton and linen, woollens, colored fabrics, silks, rayon and nylon.

UNIT-V**9 hrs**

Care for Special Material – water proof coats, silk ties, leather goods, furs, plastics, lace. Dry cleaning – Process and Auxiliaries for Dry Cleaning. Storage and care of garments. Restricted substance and their effects. Stain removal – food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration / mildew, tar, turmeric and kum- kum. Care labels – washing, bleaching, Drying, ironing and different placements of labels in garments.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar, demonstration.

Reference book:

S.No.	Author	Title of the Book	Publishers	Year of publication
1.	Rose Sinclair	Textiles and Fashion Materials, Design and Technology	"Elsevier Science""Elsevier Science"	8 November 2014
2	Pat Armstrong, Suzanne Day	Wash, Wear, and Care Clothing and Laundry in Long- Term Residential Care	McGill-Queen's University Press	24 April 2017
3	Rajkishore Nayak	Care and Maintenance of Textile Products Including Apparel and Protective Clothing	Taylor and Francis Ltd	15 Mar 2018

4	Molly Elodie Rose	Business Plan For A Laundry And Dry Cleaning Business	Barnes &Nable.	March 18th 2020
5	RajkishoreNayak, Saminathan Ratnapandian	Care and Maintenance of Textile Products Including Apparel and Protective Clothing	CRC Press	2018

Reference link:

Module -1 home science in daily life/ 9 care and maintenance of fabric

<https://youtu.be/AZJiGmh5zZY>

www.prnewswire.com/news-releases/from-smart-washing-to-the-future-of-clothing-and-fabric-care-haier-unveils-its-latest-2019-innovations-to-enrich-its-internet-of-clothes-capacity-300873229.html

Course Designers

Dr.R.Radhika

Course Code	Course Name	Category	L	T	P	Credit
CF22C05	FABRIC FORMATION TECHNIQUES	Theory	58	2	-	4

Preamble

To propel basic techniques and principles of fabric structure in woven, knitted and non- woven fabrics.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Recall the fundamental techniques associated with fabric formation.	K1
CLO2	Identify the fabric structure of woven, knitted and non- woven materials	K2
CLO3	Differentiate fundamentals of fabric structure and design.	K3
CLO4	Relate cause and remedies of fabric defects.	K4

Mapping with Programme Learning Outcomes

LOs	PLO1	PLO2	PL03	PL04	PL05
CLO1	M	M	S	S	S
CLO2	M	M	S	S	S
CLO3	M	M	S	S	S
CLO4	M	M	S	S	S

S- Strong; M-Medium

Syllabus

UNIT-I

11 hrs

Introduction to weaving – construction of elementary weaves – plain, warp rib, weft rib, twill, modification of twill, satin and sateen weaves – their derivatives.

UNIT-II

10 hrs

Honey comb- ordinary and brighten, its modification, huck a back and its modifications, crepe weaves, mock leno.

UNIT-III**13 hrs**

Extra warp and extra weft figuring – single and two colours. Backed fabric - warp and weft backed fabrics, terry pile, double cloth, Defect analyses of woven structure - causes and remedies.

UNIT-IV**12 hrs**

Introduction to knitting. Weft Knit structure-plain, rib, interlock, pique. Warp Knit structure-tricot, raschel, flat knit, seamless knitting. Defect analysis of knit structure - causes and remedies

UNIT-V**12 hrs**

Introduction to non - woven, basic methods - lamination, bonding, braiding. Types of non-woven – needle punched, spun bond, melt blown, spun lace, chemical-bonded, thermal-bonded. Identification of non-woven defects - causes and remedies.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar.

Text Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Solinger, Jacob	Apparel Manufacturing Analysis	Newyork	2016 4 th Edition
2	Solinger, Jacob	Apparel Manufacturing - Hand book analysis principles and practice	Columbia media corp	2018 4 th Edition
3	Prabirkumar Banerjee	Principles of Fabric Formation	CRC Press edition	2013 2 nd Edition
4	B.Purushothama	Hand Book of Fabric Manufacturing	Woodhead Publishing India in Textiles	2016 1 st Edition
5	Kumar Banerjee	Meripustak-Principle of Fabric Formation	T&F –India	2018 1 st Edition
6	Dr.Mukesh Kumar Singh	Industrial Practices in Weaving Preparatory	Wood head	2014 1 st Edition
7	N. Gokarneshan	Fabric Structure and Design	New Age International	2020 3 st Edition

Reference link:

<https://www.sciencedirect.com/topics/engineering/flat-knitting-machine>

<https://www.shimaseiki.com/wholegarment/>

<https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes-applications/>

Course Designer:

Dr.R.Radhika

Course Code	Course Name	Category	L	T	P	Credit
CF22P05	SUSTAINABLE TEXTILE PROCESSING AND PRINTING LAB	Practical	-	-	90	4

Preamble

To develop skill on eco - friendly preparatory, dyeing and printing process.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO Number	CLO Statement	Knowledge Level
CLO1	Identify the techniques of eco-friendly preparatory process, printing and dyeing process.	K2
CLO2	Select eco-friendly auxiliaries for printing and dyeing the fabrics.	K3
CLO3	Illustrate the methodology of dye preparation for colouration of fabric.	K3
CLO4	Experiment with colours and techniques for new product development.	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	S	S	M

S- Strong; M-Medium

Syllabus

- Preparation of samples for Processing (Eco Friendly process) **8 hrs**
(i)Bio-Desizing,(ii) Bio-Scouring (iii) Bio-Polishing
- Block printing – create design with vegetable block **5 hrs**
- Block printing – develop design with wooden block **5 hrs**
- Create design for chest print/ neck /yoke designs with stencil printing. **5 hrs**
- Tie and dye designs with any three tie methods with single natural dyes **8 hrs**
- Tie and dye designs with any three tie methods with double natural dyes **8 hrs**
- Development of a patterned fabric using tie and dye technique **9 hrs**
- Batik printing for any one motif with single/ double using natural dyes **10 hrs**

- | | | |
|----|--|---------------|
| 9 | Print a design using screen printing methods with single/ double using natural dyes | 10 hrs |
| 10 | Create a print design with a combination of any two print techniques for any one product | 12 hrs |
| 11 | Develop a print/dye design for a shawl. | 10 hrs |

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration, video.

Reference link:

https://youtu.be/I_8k1cLr1Vo

<https://www.housebeautiful.com/lifestyle/fun-at-home/a32907155/natural-dyes-for-tie-dye/>

Course Designer:

Dr.R.Radhika

Course Code	Course Name	Category	L	T	P	Credit
CF22P06	COMPUTER AIDED DESIGNING LAB	Practical	-	-	90	5

Preamble

To enhance proficiency of garment design using CAD software.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify the different components of croquis.	K2
CLO2	Demonstrate different types of poses.	K3
CLO3	Illustrate flat sketch for apparels.	K3
CLO4	Discriminate garment components using software.	K4
CLO5	Assemble spec sheet for different types of apparels.	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	M	M	S

S- Strong; M-Medium

Syllabus

Create the following designs

1. Illustrate croquis components - face and hair, hand and leg for children (boy and girl), women and men **4 Hrs**
2. Develop croquis with casual, stylish and confident poses for children (boy and girl) **6Hrs**
3. Develop croquis with casual, glamour and confident poses for women and men **6 Hrs**
4. Design and develop components of garment (each any three): **10 Hrs**
 - Pocket – box pleat flap, inverted pleat, cargo, saddle, welt pocket with tab

- Collar – mandarin, tie neck, peter pan, notched, button down
 - Sleeve – cap, Juliet, bell, tulip, virago
 - Cuff – straight button, corner cut, roll up, neopolitan, long button
 - Placket – basic, ruffled, scalloped, concealed, zipper
 - Yoke – Round yoke, yoke with fullness, midriff yoke, shoulder yoke, notched yoke
5. Design and develop flat sketches (any two) – Polo t-shirt (men), *trousers* (unisex), women dress **8 Hrs**
 6. Design and develop flat sketches (any two) – blazer, over coat, waist coat, cargos, intimate apparel (lingerie/ night robe/ camisole set) **8 Hrs**
 7. Design and develop silhouettes for children - boy (casual wear with graphic print) and girl (casual wear with all over print) **8 Hrs**
 8. Design and develop silhouettes with casual dress for women and men (plaid/ check/ stripe) **8 Hrs**
 9. Create spec sheet for boy - summer wear **8 Hrs**
 10. Create spec sheet for girl - party wear **8 Hrs**
 11. Create spec sheet for women - knit wear **8 Hrs**
 12. Create spec sheet for men - corporate *wear* **8 Hrs**

Pedagogy:

Lecture method, PPT presentation, demonstration, video.

Text Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Import, Winifred Aldrich	CAD in Clothing and Textiles	Paperback	1994 2 nd Edition
2	Melanie Bowles, Ceri Isaac	Digital Textile Design	Second edition Paperback	2012 2 nd Edition
3	Melanie Bowles	Print, Make, Wear: Creative Projects for Digital Textile Design,	Paperback, The People's Print	2015

Reference link:

<https://www.youtube.com/watch?v=Gpj6g8tELm4>
<https://www.youtube.com/watch?v=Pyfw3FqIWmo>
<https://www.youtube.com/watch?v=6lNzkXvCPs4>
<https://www.youtube.com/watch?v=Dg1DKPnc5K4>

Course Designer:

Dr.R.Radhika.

Course Code	Course Name	Category	L	T	P	Credit
CF22P07	DESIGN RESEARCH LAB	Practical	-	-	90	5

Preamble

To familiarize basic techniques used in design research.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO Number	CLO Statement	Knowledge Level
CLO1	Identify fashion research.	K2
CLO2	Relate to forecasts in fashion	K3
CLO3	Illustrate theme based visual representation.	K3
CLO4	Predict the requisites for client profile.	K4
CLO5	Connect different design features for presentation.	K4

Mapping with Programme Learning Outcomes

CLOs	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
CLO1	M	S	S	S	M
CLO2	M	S	S	S	M
CLO3	M	S	S	S	M
CLO4	M	S	S	S	S

S- Strong; M-Medium

Syllabus

The following have to be prepared:

- | | |
|---|--------|
| 1. Curriculum vita | 5Hrs |
| 2. Page of content | 4 Hrs |
| 3. Design Research | 7 Hrs |
| 4. Mind map | 8 Hrs |
| 5. Conceptualization and Ideation | 9 Hrs |
| 6. Boards - Mood board - Theme board/story board - Colour board | 10 Hrs |
| 7. Boards -Forecast board | 9 Hrs |
| 8. Boards -Fabrics sourcing board - Trims sourcing board | 10 Hrs |
| 9. Client profile | 7 Hrs |
| 10. Fashion Illustration presentation board for Kid | 7 Hrs |

- | | |
|---|--------------|
| 11. Fashion Illustration presentation board for Men | 7 Hrs |
| 12. Fashion Illustration presentation board for Women | 7 Hrs |

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration.

Reference link:

<https://shorturl.at/hnW39>

<https://shorturl.at/FRV09>

<https://shorturl.at/mptZ0>

<https://shorturl.at/knW24>

Course Designer:

Dr.R.Radhika

Course Code	Course Name	Category	L	T	P	Credit
CF22E02	TECHNICAL TEXTILES	Theory	43	2	-	3

Preamble

To develop knowledge about function and application of different types of technical textiles.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO Number	CLO Statement	Knowledge Level
CLO1	Recall the properties and characteristics of technical textiles.	K1
CLO2	Generalise the classifications and applications of technical textiles.	K2
CLO3	Examine uses of technical textiles	K3
CLO4	Relate recent trends of technical textiles	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	M	S	S
CLO2	S	S	S	S	S
CLO3	M	S	S	S	S
CLO4	M	S	S	S	S

S- Strong; M-Medium

Syllabus

UNIT I

9 Hours

Technical textiles - Introduction, definition, scope, classifications, applications, growth and development - future of technical textiles, global technical textile market, Indian technical

textile market. National technical textiles mission (NTTM). Recent trends in technical textiles.

UNIT II

8 Hours

Buildtech, Indutech and Geotech - Buildtech - introduction, definition, types of fibers used, functions, properties, characteristics and applications in Architecture and building construction. Indutech - introduction, definition, types of fibers used functions, properties, characteristics and applications in filtration and other industrial uses. Geotech - introduction, definition, types of fibers used, functions, properties, characteristics and applications in highway constructions.

UNIT III

8 Hours

Medtech, protech and Sportech – Medtech – introduction, definition, types of fibers used, functions, properties, characteristics and applications in healthcare system. Protech – introduction, definition, types of fibers used, functions, properties, characteristics and applications for personnel working in hazardous environment. Sportech – introduction, definition, types of fibers used, functions, properties, characteristics and applications in sports technology.

UNIT IV

10 Hours

Oekotech, Agrotech and mobitech – Oekotech – introduction, definition, types of fibers used, functions, properties, characteristics and applications in environmental protection. Agrotech – introduction, definition, types of fibers used, functions, properties, characteristics and applications for fosters innovation in agriculture. Mobitech – introduction, definition, types of fibers used, functions, properties, characteristics and applications in digital farming solutions, greenhouses, micro and community irrigation.

UNIT V

8 Hours

Clothtech, Hometech and Packtech –Clothtech-introduction, definition, types of fibers used, functions, properties, characteristics and applications in clothing, luggage and other bags. Hometech – introduction, definition, types of fibers used, functions, properties, characteristics and applications in furniture and interior decoration, sun protection, fireproofing and wall coverings. Packtech – introduction, definition, types of fibers used, functions, properties, characteristics and applications for wrapping apparels.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, assignment, quiz, seminar.

Text Books

S.NO	Name of the	Title of the book	Publishers	Year and
-------------	--------------------	--------------------------	-------------------	-----------------

	Authors			edition
1.	Gopalakrishnan D & P. Vinayagamurthi	Technical Textiles	Daya Publishing House	2019
2.	Dr. S. Periyasamy Dr. G. Thilagavathi	Industrial Textiles	Wood head Publishing India	2020
3.	Robert M Koerner	Designing with Geosynthetics	Prentice hall Inc	2012 6 th Edition
4.	Raul Jewel	Textile Testing	APH Publishing Corporation	2005
5.	Dr.S.Grace Annapoorani	Technical Textiles and its Application	LASER Park Publishing House, India	2017

Reference link:

[https://ittaindia.org/abouttechnicaltextile.](https://ittaindia.org/abouttechnicaltextile)

[https://www.loomia.com/blog/passive-vs-active-smart-textiles.](https://www.loomia.com/blog/passive-vs-active-smart-textiles)

<https://textilelearner.blogspot.com/2020/03/nfc-embedded-smart-textiles.html>

<https://www.technical-textiles.net>

Course Designer:

Dr.R.Radhika

Course Code	Course Name	Category
CF22AC1	ALC-I Visual Merchandising	Theory

UNIT 1

15 hrs

Introduction to Visual Merchandising

Visual merchandising-definition, objectives and scope ,visual merchandising and display- elements of visual merchandising, techniques of visual merchandising, purpose of visual merchandising, store image, target customers, seasonal visual merchandise.

UNIT II

15 hrs

Display and Display Settings

Types of display - promotion vs institutional display, type of display setting attention drawing

devices – colour, lighting, line and composition, scale, contrast, repetition, humour, surprise and shock.

UNIT III

15 hrs

Store and Window Settings

Store design, study about props, decorative, signage, windows, exterior of the store, window in store front design, display window, special windows, focal points, island displays, risers and platforms, the runway the catwalk, counters and display cases, museum cases, demonstration cubes, ledges, shadow boxes, enclosed displays, fascia, walls.

UNIT IV

15 hrs

Mannequins and Fixtures

Mannequins and other human forms, alternatives to mannequins. Criteria for selection of fixtures, dressing fixtures, modular fixtures. Store exterior – signs, marquees, outdoor lighting, banners, planters, awnings, windows in storefront design, store fronts.

UNIT V

15 hrs

Merchandise Display

Planning a display - point of purchase display, industrial display, fashion shows, trade organizations and sources. Visual merchandiser in store promotion, scheduling the promotion, fashion promotion and communication. Role of visual merchandising in changing face of retailing.

Text Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Jeannette Jarnow, Dickerson	Inside the Fashion Business	Prenticehall, USA	1996 6 th Edition
2	Darlie Koshy	Effective export marketing of Apparel	Global business press	1995 1 st Edition
3	Pegler M.M	Visual Merchandising and Display	Fair child Publications, NewYork	2001 4 th Edition

Online Reference link:

<https://textilelearner.net/visual-merchandising/>

<https://textilelearner.net/role-of-merchandiser-in-garment-industry/>

<https://www.google.com/amp/s/www.fibre2fashion.com/industry-article/3460/visual-merchandising->

<https://www.fibre2fashion.com/industry-article/1810/visual-merchandising>

Course Designer:

Dr.R.Radhika

Course Code	Course Name	Category	L	T	P	Credit
CF22C06	TEXTILE TESTING AND QUALITY CONTROL	Theory	58	2	-	4

Preamble

To gain knowledge on physical properties of fibers yarns and fabrics with the use of various testing equipments.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO Number	CLO Statement	Knowledge Level
CLO1	Identify the properties of fiber and yarn by textile testing	K1
CLO2	Demonstrate the properties of fabric by textile testing	K2

CLO3	Explain the testing methods for fiber, yarn and fabric	K3
CLO4	Analyse the testing procedure and calculation method for fiber, yarn and fabric testing	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	M	M	M	M	S
CLO2	M	M	M	M	S
CLO3	M	M	M	M	S
CLO4	M	M	M	M	S

S- Strong; M-Medium

Syllabus

UNIT I

11 Hrs

Definition of textile testing and its influence on fiber properties, standard testing atmosphere, moisture content and regain. Measurement of atmospheric condition - wet and dry bulb hygrometer, sling hygrometer. Fiber testing - fiber length - bear sorter and fibrograph. Fiber strength - stelometer, fiber fineness - micronaire, fiber maturity, trash content - trash analyzer.

UNIT II

10 Hrs

Yarn testing - determination of yarn count -quadrant and beesley balance. Twist - measurement of twist - twist effect on fabric properties.Crimp - shirley crimp tester. Yarn appearance tester. Evenness - uster evenness tester, Hairiness - uster hairiness tester. Strength of yarn - single yarn strength tester.

UNIT III

13 Hrs

Fabric testing - weight, thickness and count. Course length and loop length of knitted fabric. Fabric strength tester - tensile strength, tearing strength and bursting strength. Abrasion- abrasion tester and pilling - martindale pill box tester. Drape - drape meter. Fabric stiffness - shirley stiffness tester, colour fastness-water, light and rubbing, dimensional stability, absorbency, crease recovery - shirley crease recovery tester - air permeability.

UNIT IV

12 Hrs

Definition and scope of quality control – establishing merchandising standards- Importance of quality establishing raw material quality control specifications – quality control of raw material. The quality standard control – quality control inspection, procedures for processing- quality control of finished garment. Sampling plans – industry – wide quality standards. Function of production control – production analysis – quality specifications.

UNIT V

12 Hrs

Textile Quality Standards - definition, factor, importance. Quality management systems -ISO 9001. Textile standards and certifications - International standards - ISO, ASTM, and AATCC, Eco-

labelling and sustainability certifications - OEKO-TEX, GOTS, Fair Trade and Regional standards and regulations - REACH, ZDHC, BIS. Quality control techniques.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar.

Test Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	J.E. Booth	Principles of textile testing	C.B.S., publishers & distributors, New Delhi	September 2018
2	K.Amutha	A Practical Guide to Textile Testing	WPI	May 2016 1 st Edition
3	Patricia A Annis	Understanding and Improving the Durability of Textiles	Elsevier Science	September 2012 1 st Edition
4	D. Gopalakrishnan	Textile Testing	DAYA Publishing House	January 2020 1 st Edition

Reference Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Fabric Testing	Textile Institute (Manchester, England)	Elsevier Science	January 2018 1 st Edition
2	Devandra Raghav	Introduction to Fabric Testing and Textile Industry	Cyber Tech Publication	January 2021 First Edition
3	Solinger, Jacob	Apparel manufacturing hand book analysis principle and Practice	Columbia media corp	1988
4	Wilson J	Handbook of Textile Design	Woodhead Publishing	2005

Reference link :

- <https://shorturl.at/wmdUn>
- <https://shorturl.at/1hWFJ>
- <https://shorturl.at/vrvTW>

- <https://shorturl.at/Lt151>
- <https://shorturl.at/7rEpT>

Course Designer:

1. Dr. P. Ananthi
2. T. Prathiusa

Course Code	Course Name	Category	L	T	P	Credit
CF22P08	COMPUTER AIDED APPAREL DESIGNING LAB	Practical	-	-	120	5

Preamble

To gain skill in pattern making, grading and marker planning with CAD software.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify key tools and basic commands on CAD software	K2
CLO2	Illustrate pattern for designed garment	K2
CLO3	Apply grading in pattern using CAD technique	K3
CLO4	Generate marker planning for graded pattern	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	S	S	S

S- Strong; M-Medium

Syllabus

1. Software basics – tool kit, features and techniques. **10hrs**
2. Create/Compile a portfolio with the following details – theme board, mood board, colour board and swatch board **20hrs**
 10. Surface ornamentation samples
 11. Mens /womens /childrens garments

12. Fashion Illustration	
3. Design and pattern development for salwar	12hrs
4. Grading and marker planning for salwar	7hrs
5. Design and pattern development for kameez	9hrs
6. Grading and marker planning for kameez	5hrs
7. Design and pattern development for T-Shirt	13hrs
8. Grading and marker planning for T-Shirt	7hrs
9. Design and pattern development for full sleeve shirt	14hrs
10. Grading and marker planning for full sleeve shirt	9hrs
11. Design and pattern development for trousers- narrow bottom or bellbottom.	9hrs
12. Grading and marker planning for trousers- narrow bottom or bellbottom.	5hrs

Pedagogy:

Lecture by chalk and talk, power point presentation, demonstration, video.

Reference link:

- https://youtu.be/jTWtQNTJt_A
- <https://youtu.be/6iiSJ9AcYh8>
- <https://youtu.be/DvIJHJfXJk>

Course Designer:

1. Dr.M.MaliniDevi
2. P.Praveena

Course Code	Course Name	Category	L	T	P	Credit
CF22E03	ORGANIZATION OF GARMENT UNIT	Theory	43	2	-	4

Preamble

To impart knowledge on entrepreneurship and to familiarize institutions supporting entrepreneurs.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Understand the characteristics of entrepreneurship	K1
CLO2	Describe the institutions supporting entrepreneurs	K2
CLO3	List the departments involved in a garment unit	K3
CLO4	Demonstrate fashion design and layout of a garment industry	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	M	S	M	M	S
CLO2	M	S	M	M	S
CLO3	M	S	S	M	S
CLO4	M	S	M	S	M

S- Strong; M-Medium

Syllabus

UNIT-I

9hrs

Introduction to apparel industry-challenges, opportunities and futuristic trends. Departments in the apparel industry. Designing department –stages of product development, forecasting, trend

analysis, line planning and design approval for production. Introduction to spec sheet and its important tech pack analysis. Objectives for creating tech pack development of spec sheet manual and computerized.

UNIT-II

9hrs

Sampling department-importance of sampling department, objectives, types of samples prototype, fit sample, pp sample, size set production sample and shipment sample. Preparation of cost sheet, fabric and accessory sourcing. Pre-production sample.

UNIT-III

9hrs

Production development – layout cut order, marker making, production planning, spreading, cutting, sewing, modular manufacturing, piece work, linear manufacturing process, finishing, pressing department, trimming department, packing department, inspection and shipping.

UNIT-IV

8hrs

Marketing department-market research- importance, techniques and types of marketing research marketing strategy, advertising, latest trends in marketing, branding, sales, feedback and evaluation.

UNIT-V

8hrs

Introduction to export procedure and documentation- principal documents– auxiliary documents – documents for claiming export assistance. Buyer requirements export procedure at present documentation, LC (Letter of Credit), ECGS, quality control pre-shipment, inspection export credit negotiation of bills payment procedures in export trade

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar.

Text Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Dinakarpagare	Principles of management	sultan Chand and sons	2018 6 th edition
2	Dr. C.B Gupta, D N.P .Srinivasan	Entrepreneurship Development in India	sultan Chand and sons delhi	January 2020
3	Darlie O Koshy	Garment Exports	Prentice – Hall of India LtD	January 2009
4	AJ Chester 2nd Edition	Introduction to clothing production management	Wrenbury Associates Ltd	March 2011 2 nd edition
5	Harold Carr and Barbara Latham	The technology of clothing manufacture	Blackwell Science	May 2008, 4 th edition

Reference Books

S.No.	Author	Title of the Book	Publishers	Year and edition

1	PrasantaSarkar	Garment Manufacturing: Processes, Practices and Technology	Woodhead Publishing India Pvt. Ltd. HB publisher	January 2015
2	B. Purushothama	Effective Implementation of Quality Management Systems	Woodhead Publishing India Pvt. Ltd. HB publisher	May 2010
3	Mehta, Pradip V ,	Quality Management Handbook For The Apparel Industry	New Age International (P) Ltd Publishers	2012 1 st edition
4	Eiri Staff	Hand Book of Garments Manufacturing Technology Hardcover	Educa Books	October 2007
5	Enamul Hafiz Latiffee	Handbook for Ready-made Garments Investors to Bangladesh	Publisher: EuroBang Fashion	December 2015

Reference link :

- <https://shorturl.at/4Hfpt>
- <https://shorturl.at/qPz7T>
- <https://shorturl.at/XNFaA>

Course Designer:

- 1.Dr.R.Tryphene
- 2.Dr.M.Malinidevi

Course Code	Course Name	Category	L	T	P	Credit
CF22E04	HOME FURNISHING	Theory	43	2	-	4

Preamble

To impart knowledge about home furnishing for interior and commercial environment.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs	CLO Statement	Knowledge Level
CLO1	Identify the various home furnishing products	K1
CLO2	Explain the selection of fabrics for the home furnishing products	K2
CLO3	Analyse the process, methods and impact of home furnishing products.	K3
CLO4	Apprise the care and maintenance of home furnishing	K4

Mapping with Programme Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	S	S	M

S- Strong; M-Medium

Syllabus

UNIT-I

9hrs

Introduction to home furnishing materials, definition, types of home furnishing, factors influencing selection of home furnishing. Importance of home furnishing and modern and contemporary product in home furnishing.

UNIT-II

8 hrs

Floor and wall coverings – definition, types of floor covering –hard, soft and resilient floor coverings and uses and care and maintenance of floor coverings. Wall covering- definition, uses, care and maintenance of wall coverings

UNIT-III

9hrs

Door and window treatments –definition and parts of door and windows, curtains and draperies – definition and materials used for curtains and draperies. Types of curtains –draw, tailored, pleated, cafe, three tier curtains. Types of draperies – swags. Accessories- rods hook, rails, racks, curtain tape pins

UNIT-IV

9 hrs

Soft furnishings for living and bed linen. Introduction to living and bedroom linens, types- sofa, sofa covers, wall hangings, cushion, cushion covers, upholsteries, bolster and bolster covers, bed sheets, covers, blankets, blanket covers, comfort and comfort covers, bed spreads,

mattress and mattress covers, pillow and pillow covers, pads, uses and care.

UNIT-V

8hrs

Soft furnishings for kitchen and dining, types of kitchen linens – kitchen towel, aprons, dish cloth, fridge, grinder and mixie covers, mittens, fridge holders –their uses and care. Types of dining- table mat, dish/pot holders, cutlery holder, fruit baskets, hand towels-uses and care.

Bathroom linens – types, uses and care.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar.

Text Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Varghese, M.A., Ogale, M.M, and Srinivasan , K.	Home Management	New Age International	2022, 3 rd Edition
2	Premavathy, Parveen Pannu,	Interior Design and Decoration ^{ec} , CBS	Publishers and Distributors	2013, 1st Edition.

Reference Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Harriet Goldstein	Art in Every Day Life	Goldstein Press	2007, 4 th Edition
2	Virginia Hencken Elsasser, Julia Ridgway Sharp	Know Your Home Furnishings	Fairchild Books	2016, 2 nd Edition
3	D & T Karthik Gopalakrishnan	Home Textiles	Daya Publishing House	January 2020

Reference link :

- <https://shorturl.at/GMVur>
- <https://shorturl.at/SdoQE>
- <https://shorturl.at/fzwZc>
- <https://shorturl.at/bLkBB>
- <https://shorturl.at/rR8I3>

Course Designer:

- 1.Dr.R.Tryphene
- 2.Dr.M.Malinidevi

Course Code	Course Name	Category
CF22AC2	BOUTIQUE MANAGEMENT	Theory

Preamble

To impart the knowledge on current trend involved in setting a boutique.

Course Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Define boutique management	K1
CLO2	Explain the infrastructure for boutique	K2
CLO3	Develop boutique interior, visual merchandising and store layout	K3
CLO4	Create complete miniature of store plan and layout	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	S	S	M

S- Strong; M-Medium

SYLLABUS

UNIT- I

15 hrs

Introduction to boutique management, skills required to set up a boutique, identifying target market and customer, choice of location and space management. Uniqueness of apparel retailing-types of fashion retail outlets-department stores, speciality, chain, stores, discount retailers.

UNIT- II

15 hrs

Infrastructure requirement, staffing-selection of generalists and specialists, material sourcing (trims and fabric), fashion accessories in boutique.

UNIT- III

15 hrs

Boutique interior-visual merchandising and store layout, customer relationship management activity –to create complete miniature of store plan and layout.

UNIT- IV**15 hrs**

Boutique marketing tools and promotional kit, book keeping for boutique and maintaining stock, project finance, cash control and cash flow analysis.

UNIT- V**15 hrs**

Boutique assessment, boutique business analysis, boutique setup and management

Reference Books

S.No.	Author	Title of the Book	Publis hers	Year and edition
1	Debbra Mikaelson	FabJob Guide to Become a Boutique Owner	Fabjob	January 2006
2	Neil R. Bingham	The New Boutique: Fashion and Design	Merrell	April 2005
3	Rosemary Varley , Natascha Radclyffe- Thomas , Ana Roncha , Liz Gee , Ana (University of the Arts London, UK) Roncha	Fashion Management: A Strategic Approach	Red Globe Press	November 2018

Reference link :

11. <http://surl.li/imvyrb>
- 12.
13. <http://surl.li/cihurt>
14. <http://surl.li/bfaxx><http://surl.li/qetqlyn>
15. <http://surl.li/mofeqx>

Course Designer:

- 1.Dr.M.Malinidevi
- 2.R.Saranyadevi

Course Code	Course Name	Category	L	T	P	Credit
CF22SB03	APPAREL MARKETING	Theory	41	4	-	3

Preamble

To impart the knowledge on the Apparel marketing strategies.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO1	Identify marketing strategies, specific to the apparel industry	K1
CLO2	Indicate new product development using trend analysis.	K2
CLO3	Prepare marketing communication for sales promotion.	K3
CLO4	Relate advertising in apparel industry	K4

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PL03	PL04	PL05
CLO1	S	S	S	S	S
CLO2	S	S	S	S	M
CLO3	S	S	S	S	M
CLO4	S	S	S	S	M

S- Strong; M-Medium

Syllabus

UNIT-I

8 hrs

Meaning and classification of marketing, fashion marketing – definition (customer behaviour, global fashion, market place, fashion consumer and buyer) market mix (4ps and 4cs) fashion market – size and structure, marketing environment – micro and macro marketing environment, trends in marketing environment. Market survey and research.

UNIT-II

8 hrs

Marketing function – assembling, standardization and grading and packaging, product planning and development, importance of fashion products, nature of fashion products. The fashion industry and new product development, forecast analysis, trend analysis, product mix and range planning, fashion and related cycles.

UNIT-III**8 hrs**

Pricing policies and strategies for apparel products, importance of price policies, functions and factors. Influencing pricing- internal and external, pricing strategies for new products, methods of setting prices.

UNIT-IV**9 hrs**

Fashion sales promotional programme for apparel marketing, communication in prop motion, personal selling, point of purchase, sales promotion – objectives and methods, marketing research – definition, scope and process – areas of research. Supply chain management- introduction, adaption, team work, concept, quality and transparency.

UNIT-V**8 hrs**

Fashion advertising and preparation of advertising for apparel market, advertising media used in apparel market – advantages and limitations, advertising department – structure and functions, advertising agencies – structure and function. Advertising budget. Latest trend in retail management - e-commerce platforms.

Pedagogy:

Lecture by chalk and talk, power point presentation, e-content, group discussion, assignment, quiz, peer learning, seminar.

Text book

S.NO	Name of the Authors	Title of the book	Publishers	Year and edition
1.	Gini Stephens Frings	Fashion: From concept to consumer	Prentice-Hill Inc	1999 9 th Edition
2.	Jacob Solinger	Apparel Manufacturing, Hand Book	Published by Bobbin Media Corporation	1980 2 nd Edition

Reference book

S.NO	Name of the Authors	Title of the book	Publishers	Year and edition
1.	T.Karthik, P.Ganesan, D.Gopalakrishanan,	Apparel Manufacturing and Technology	Published by CRC Press	2017 1 st Edition

Reference link:

<https://wisepops.com/blog/apparel-marketing>

<https://smallbusiness.chron.com/pricing-strategies-apparel-industry-77737.html>

Course Designer:

4. R.SaranyaDevi

Course Code	Course Name	Category	L	T	P	Credit
CF22PROJ	FASHION PORTFOLIO PROJECT AND VIVA VOCE	Project	-	-	180	7

Preamble

To apply techniques used in design research and showcase their developed garment with professional competencies.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLOs Number	CLO Statement	Knowledge Level
CLO2	Understand the process involved in the portfolio preparation	K2
CLO3	Illustrate shilloutte based on theme board	K3
CLO4	Relate spec sheet and cost estimation for designed garment	K4
CLO5	Create portfolio designer book	K5

Mapping with Programme Learning Outcomes

CLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	M	S	S	S	M
CLO2	M	S	S	S	M
CLO3	M	S	S	S	M
CLO4	M	S	S	S	S

S- Strong; M-Medium

Syllabus

The following have to be prepared:

- | | |
|---|--------|
| 1. Illustrate flat sketches for related theme | 20 Hrs |
| 2. Develop silhouette board for the selected design | 22 Hrs |
| 3. Prepare Spec sheet for men/ women/ kid wear (2 garments) | 10 Hrs |
| 4. Prepare Spec sheet for men/ women/ kid wear (2 garments) | 10 Hrs |
| 5. Prepare Spec sheet for men/ women/ kid wear (2 garments) | 10 Hrs |
| 6. Pattern development for selected men/ women/ kid design (2 garments) | 8 Hrs |
| 7. Pattern development for selected men/ women/ kid design (2 garments) | 7 Hrs |
| 8. Pattern development for selected men/ women/ kid design (2 garments) | 6 Hrs |
| 9. Product development for selected men/ women/ kid design (2 garments) | 12 Hrs |
| 10 Product development for selected men/ women/ kid design (2 garments) | 12 Hrs |
| 11 Product development for selected men/ women/ kid design (2 garments) | 12 Hrs |
| 12 Costing for selected men/ women/ kid design (2 garments) | 6 Hrs |
| 13 Costing for selected men/ women/ kid design (2 garments) | 6 Hrs |

14 Costing for selected men/ women/ kid design (2 garments)

6 Hrs

15 Photo shoot

15 Hrs

16 Final presentation

18 Hrs

Instruction to students:

- Number of garments in a collection – 6 garments (men/ women/ kid wear).
- One product from portfolio collection to be presented in fashion show.
- Designing of each product should be undertaken only in consultation with the respective guide.
- Spec sheet should contain design illustration, technical drawings, component detail, measurement chart, fabric indication (swatch), fabric consumption and accessories details
- Collection to be based on innovative fabric combination, surface texture and ornamentations

Reference Books

S.No.	Author	Title of the Book	Publishers	Year and edition
1	Anna Kiper	Fashion Portfolio: Design and Presentation	Batsford	2016,
2	Jo Dingemans	Mastering Fashion styling (Macmillan Master Series)	Palgrave Macmillan	August 1999, 5 th Edition
3	Bruce Smith	Fashion Photography: A Complete Guide to the Tools and Techniques of the Trade	Amphoto Books	October 2008

Text Books

1	Bina Abling	Fashion Flats and Technical Drawing	Fairchild Books	January 2017,
2	ASBCI Association of Suppliers to the British Clothing Industry	Garment Costing: Everything you need to know about the cost of making clothes	ASBCI	2020

Reference link :

1. <https://youtu.be/orGvOKs7Uyc>
2. <https://youtu.be/HEsmu45SKv4>
3. <https://youtu.be/mSHIR5G00lc>

Course Contents and Lecture Schedule

- 1.Dr.R.Radhika
- 2.Dr.M.Malinidevi