

PERIYAR UNIVERSITY

SALEM-636011



DEGREE OF BACHELOR OF SCIENCE CHOICE BASED CREDIT SYSTEM

Syllabus for

B.Sc. TEXTILE AND FASHION DESIGNING (SEMESTER PATTERN)

(For Candidates admitted in the College Affiliated to Periyar
University From 2023-2024 onwards)

REGULATIONS

I. ELIGIBILITY

Candidate seeking admission to the first year Degree of Bachelor of Science in Textile and Fashion Designing shall be required to have passed in any Higher Secondary course examination (Regular academic or Vocational) of the State Board/CBSE/ICSE or other examination accepted as equivalent thereto by the Syndicate, subject to such other conditions as may be prescribed. Pass in any three year Diploma in Fashion/Costume/Textile/Apparel related course is eligible to admit in direct second year of this UG course.

II. DURATION

The course for the degree of Bachelor of Science Textile and Fashion Designing shall extend over a period of three academic years - 6 Semesters and each semester normally consisting of 90 working days or 450 Hours.

III. ELIGIBILITY FOR THE DEGREE

A candidate shall be eligible for the degree of Bachelor of Science Textile and Fashion Designing, if he/she has satisfactorily undergone the prescribed courses of the study for a period not less than 6 semesters in an institution approved by the university has passed the prescribed examinations in all the 6 Semesters.

IV. SUBJECT OF STUDY

The subjects of the study for the B.Sc., Textile and Fashion Designing and the syllabus for the subjects are given in the annexure.

V. REQUIREMENT OF EXAMINATION

The theory examinations will be conducted for 3 hours by the university in the subjects prescribed for all the semesters in every semester.

The practical examinations will be conducted by the university for 3 hours with respective to allied and core practical in all the subjects prescribed in every semester.

VI. SCHEME OF THE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations / Internship work shall be conducted and evaluated internally by the institution themselves with internal and external examiners appointed by the university.

VII. PASSING RULES

Theory

- 75% of the marks for external evaluation and 25% marks are allotted for internal evaluation.
- Candidate is demand to have passed to a subject, if he/she get a minimum of 40% of total marks in theory subjects with internal mark of 10 marks and external marks of 30 marks.

Practical

- 60% of the marks for external evaluation and 40% marks are allotted for internal evaluation.
- For practical subjects, the candidate should get minimum marks of 24 marks in external evaluation out of 60 and 16 marks in internal evaluation out of 40.
- For project viva voce, 60 % of the marks for internal evaluation and 40 % marks are allotted for external evaluation.
- For project, the candidate should get minimum marks of 16 marks in internal evaluation out of 40 and 24 marks in external evaluation out of 60.

Program Specific Objectives (PSOs)	
B.Sc. (Textile and Fashion Designing)	
PSO-1	Gain the knowledge of Textile and Fashion Designing course through theory and practical oriented courses.
PSO-2	Understand good laboratory practices in garment designing and construction.
PSO-3	Understand the impact of the professional designing solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO-4	Make aware of to handle the sophisticated instruments/equipment's at industry level
PSO-5	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary field and to become a significant provider of employment and self-employment opportunities.
PSO-6	Develop research oriented skills and thereby build a strong foundation for higher studies.

Program Objectives (POs)	
B.Sc. (Textile and Fashion Designing)	
PO – 1	Inculcate the students at first to the fundamentals governing the aesthetic and design elements required for a Textile and Fashion Designing graduate along with the fundamentals of management aimed at sufficient skill levels required in the apparel manufacturing industry.
PO –2	To introduce different essential streams including apparel manufacturing technology, information technology, quality management, etc.
PO – 3	Impart extensive knowledge of raw materials including fabrics and trims in the formative years to enable the students to relate their understanding with apparel manufacturing.
PO - 4	To build upon the integration of creative forces of design with fashion technology, and also keeps in mind the historical, social and cultural contexts in which the designers work today
PO - 5	The culmination of the Programme leads the student researching, experimenting and implementing the skills by way of a graduation project.
PO - 6	Mold the students to be qualified to position themselves for diverse work profiles available in the apparel manufacturing sector.

Programme Outcomes

1. The graduates will be able to utilize their knowledge and skills in higher studies and research.
2. The graduates will be able to execute innovative and professional skills in the field of Apparel Industry.
3. The graduates can start-up their business, freelance and enterprise without difficulty and can also enter into the world of work easily.
4. The graduates can exit with employability in various fields of textiles and apparel.

Program Educational Outcomes (PEOs)	
The B.Sc. (Textile and Fashion Designing) program describes accomplishments that graduates are expected to attain within five to seven years after Graduation	
PEO1	The student can excel in the field of Textile and Fashion Designing after the completion of the Program.
PEO2	The student can develop his own brands in Apparel Sector.
PEO3	Start- Up of An Entrepreneur with potential is possible with new ideas towards Apparel Industry.
PEO4	The student can choose to work as a freelance designer.
PEO5	The student can begin his career in the area of Apparel Production.
PEO6	The student can work as Quality Managers in Garment Industry
PEO7	The student can work as Fabric Managers in woven and Knitted Fabric sector.
PEO8	The student can also work as an industrial engineer.
PEO9	The student can work as Merchandiser and Costing Managers in Garment Industries.
PEO10	The student can act as Consultant in Apparel Sectors.

QUESTION PAPER PATTERN

THEORY

Time: 3 Hours

Total Marks: 75 Marks

QUESTION PAPER PATTERN

Unit	Section-A	Section-B	Section-C
I	Q. 1, 2,3	Q. 16	Q. 21a, 21b
II	Q. 4,5,6	Q. 17	Q. 22a, 22b
III	Q. 7,8,9	Q. 18	Q. 23a, 23b
IV	Q. 10,11,12	Q. 19	Q. 24a, 24b
V	Q. 13,14,15	Q. 20	Q. 25a, 25b

SECTION A (15 x 1 = 15)

ANSWER ALL THE QUESTIONS

SECTION B (2 x 5 = 10)

ANSWER ANY TWO QUESTIONS

SECTION C (5 x 10 = 50)

EITHER OR CHOICE

ANSWER ALL THE QUESTIONS

**SECTION A (15 X1 = 15) ANSWER
ALL THE QUESTIONSSECTION B
(2X5 = 10)**

ANSWER ANY TWO QUESTIONS

SECTION C (5X10 = 50)

EITHER OR CHOICE ANSWER ALL THE QUESTIONS

INTERNALASSESSMENT	MARKS
TEST:	15
ASSIGNMENT:	5
ATTENDANCE:	5
	25

PASSING MINIMUM (IA) 40% - 10 MARKS

PASSING MINIMUM (UE) 40% - 30 MARKS

PASSING MINIMUM TOTAL -40MARKS

PRACTICAL:

Time: 3 Hours

Total Marks: 60Marks

SECTION A (1X20= 20)	Either or Choice	ANSWER	ANYONE
SECTION B (1 X40= 40)	Either or Choice	ANSWER	ANYONE

INTERNALMARKS:

RECORD:	25
SAMPLE:	10
ATTENDANCE:	05
TOTAL:	40 MARKS

PASSING MINIMUM (IA) 40% - 16 MARKS

PASSING MINIMUM (UE) 60% - 24 MARKS

PASSING MINIMUM TOTAL - 40 MARKS

B.Sc. Textile and Fashion Designing

SEM	PART	COURSE CODE	COURSE	Hours			Credits	MARKS		
				L	T	P		CIA	EA	TOTAL
I	I		Tamil-I	6	-	-	3	25	75	100
	II		English-I	6	-	-	3	25	75	100
	III	23UTFCT01 (Core Course- I)	Fiber and Yarn Science	5	-	-	5	25	75	100
		23UTFCP01 (Core Course- II)	Basic Apparel Designing Practical		-	5	5	40	60	100
		23UTFDE01A / 23UTFDE01B / 23UTFDE01C Elective- I Discipline	Elective- I	4	-	-	3	25	75	100
	IV	Skill Enhancement Course- I (NME)	E - Designing Practical	-	-	2	2	40	60	100
		23UTFFP01 Skill Enhancement Course (Foundation Course)	Basic Illustration and Sketching Practical	-	-	2	2	40	60	100
		Total		30			23			700
II	I		Tamil-II	6	-	-	3	25	75	100
	II		English-II	4	-	-	3	25	75	100
	III	23UTFCT02 Core Course- III	Woven Fabric Science	5	-	-	5	25	75	100
		23UTFCP02 Core Course- IV	Fiber to Fabric Science Practical	-	-	6	5	40	60	100
		23UTFDE02 A / 23UTFDE02 B / 23UTFDE02 C Elective- II Discipline	Elective- II	5	-	-	3	25	75	100
	IV	Skill Enhancement Course II (NME)	Needle Craft and Fabric Painting Practical	-	-	2	2	40	60	100
	IV	NMSDC	Overview of English Language Communication	2	-	-	2	-	-	-
		Total		30			23			600

III	I		Tamil-III	6	-	-	3	25	75	100
	II		English-III	6	-	-	3	25	75	100
	III	23UTFCT03 (Core Course- V)	Textile Wet Processing	4	-	-	4	25	75	100
		23UTFCP03 (Core Course- VI)	Children's Apparel Practical	-	-	4	4	40	60	100
		23UTFDE03 A / 23UTFDE03 B / 23UTFDE03 C Elective- III Discipline	Elective- III	4	-	-	3	25 40	75 60	100
	IV	23UTFSP01 (Skill Enhancement Course- IV Entrepreneurial Skill)	Beauty Care Practical	-	-	1	1	40	60	100
		23UTFSP02 (Skill Enhancement Course V)	Textile Wet Processing Practical	-	-	2	2	40	60	100
		SDTC	Digital Skills for Employability	2			2	-	-	-
		23UES01	Environmental Studies	1		-	-	-	-	-
			Health and Wellness				1			
			30		23			700		
IV	I		Tamil-IV	6	-	-	3	25	75	100
	II		English-IV	6	-	-	3	25	75	100
	III	23UTFCT04 (Core Course- VII)	Textile Finishing	5	-	-	5	25	75	100
		23UTFCP04 (Core Course- VIII)	Women’s Apparel Practical	-	-	5	5	40	60	100
		23UTFDE04 A / 23UTFDE04 B / 23UTFDE04 C Elective- IV Discipline	Elective- IV	3	-	-	3	25 40	75 60	100
	IV	23UTFST01 (Skill Enhancement Course VI)	Fashion Designing	2	-	-	2	25	75	100
		NMSDC	Digital Skills for Employability	2	-	-	2	25	75	100
		23UES01	Environmental Studies	1	-		2	25	75	100
			Total	30		25			800	
			15 days internship in a Fashion/Garment/Boutique/Textile Processing Industries during summer holidays. Assessment will be at the end of V th Semester.							

V	III	23UTFCT05 (Core Course- IX)	Apparel Costing and Merchandising	4		-	4	25	75	100
		23UTFCT06 (Core Course- X)	Knitting and Non-woven	4		-	4	25	75	100
		23UTFCP05 (Core Course- XI)	Surface Embellishment and Fashion Accessories Practical	2	-	3	4	40	60	100
		23UTFCP06 (Core Course- XII)	Men’s Apparel Practical	2	-	3	4	40	60	100
		23UTFDE05 A / 23UTFDE05 B / 23UTFDE05 C Elective- V Discipline	Elective -V	4	-	-	3	25 40	75 60	100
		23UTFDE06 A / 23UTFDE06 B / 23UTFDE06 C Elective -VI Discipline	Elective -VI	4	-	-	3	25	75	100
	IV	23UVE01	Value Education	2	-	-	2	25	75	100
		23UTFSI01 Summer Internship	Internship Project -Viva-Voce	-	-	-	2	40	60	100
		SDTC	Creative Skills for Employability	2			2	25	75	100
					30		26			800
VI	III	23UTFCT07 (Core Course- XIII)	Textile Testing and Quality Control	6	-	-	4	25	75	100
		23UTFCP07 (Core Course- XIV)	CAD in Garment Designing Practical	2	-	4	4	40	60	100
		23UTFCP08 (Core Course- XV)	Fashion Portfolio Presentation Viva Voce	-	-	6	4	40	60	100
		23UTFDE07 A / 23UTFDE07 B / 23UTFDE07 C Elective- VII Discipline	Elective -VII	5	-	-	3	25	75	100
		23UTFDE08 A / 23UTFDE08 B / 23UTFDE08 C Elective- VIII Discipline	Elective - VIII	5	-	-	3	25	75	100
	IV	23UEX01	Extension Activity	-	-	-	1	-	-	-
		Professional Competency Skill		2	-	-	2	25	75	100
	IV	NMSDC	Creative and Innovative Skills for Employability	2	-	-	2	25	75	100
		Total			30		21			600
				180		141			4200	

Hours*- L-Lecture T-Tutorial P-Practical

NME* - Non Major Elective course

LIST OF ELECTIVE COURSES

Elective – I

1A -Pattern Making and Grading

1B - Basic Apparel Designing

1C - Fashion Forecasting

Elective – II

2A - Apparel Manufacturing Machineries and Equipments

2B - Care and Maintenance of Textiles

2C - Garment Accessories and Trims

Elective – III

3A -Fashion Draping Practical

3B - Fashion Business Communication

3C - Basics of Cosmetology

Elective – IV

4A - Fashion Designing Practical

4B - Costumes and Textiles of India

4C - Fashion Appreciation

Elective – V

5A - Home Textiles Practical

5B - Organization of Garment Unit

5C - Computer Application in Garment Designing

Elective – VI

6A - Entrepreneurship development

6B - Fashion Photography

6C - Eco Textiles

Elective – VII

7A - Apparel Production Management

7B - Technical Textiles

7C- Fashion Marketing

Elective – VIII

8A - International Trade and Documentation

8B - Industrial Engineering

8C - Apparel Brand Management

FIRST SEMESTER

Course Code	23UTFCT01	FIBER AND YARN SCIENCE	L	T	P	C
Semester	I	Core Course–I	5	-	-	5
Prerequisite		Basic Knowledge in Fiber and Yarn	Syllabus Version	2023 –2024		
Course Objectives:						
The main objectives of this course are to:						
1. To facilitate the students to understand the structural features of Fibers and Yarn.						
2. To investigate techniques of textile fibers and yarn with its manufacturing Process.						
3. To Learn the Properties and behavior of Fibers and Yarn.						
4. To Gain knowledge in Advanced Spinning System.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Recognize the molecular conformations of various textile fibers.					K1
CO2	Explain the production process of various textile fibers and yarns.					K2
CO3	Utilize the Fibers and Yarns in different fields of Textile Industry.					K3
CO4	Analyze the structural investigations techniques of Fibers and Yarn.					K4
CO5	Outline the Properties and behavior of textile fibers and Yarns.					K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1		Introduction of Textile Fibers				
Introduction of textile fibers: Classification - Physical and chemical properties. Cotton: Botanical and commercial classification - Properties - End uses. Brief study about Organic cotton Flax: Properties -End uses. Brief study about organic cotton. Wool: Producing countries - Grading - Properties - End uses - Felting –Woolen and Worsted Yarns. Silk: Producing countries – Degumming – Weighting– Properties - End uses. Brief study on wild silk varieties.						
Unit:2		Filament Spinning System				
Methods of filament spinning. Semi synthetic fibers: Regenerated and modified cellulose -Viscoserayon process flow - HWM fibers - End uses –Brief study of Bamboo, Lyocell, Soya bean fibers.						
Unit:3		Polymer Science				
Polymer – Terminologies – Types of polymers and Polymerization. Synthetic fibers: Brief study about Polyamide, Polyester, Poly Acrylic and Spandex. Individual fiber properties and trade names–End uses. Drawing and effects. Texturization: definition, types, properties of textured yarn- its uses. Micro fibers.						
Unit:4		Yarn Production Process				
Classification of yarn types- Staple spinning system – Types. Yarn manufacturing Process:						
Ginning- objectives, Objectives and process sequence –Blow room, carding, Drawing, combing, simplex, ring frame, Comparison of carded and combed yarn. Principles and process sequence - Rotor spinning, Compact Spinning.						
Unit:5		Post Yarn Process				
Post spinning process: cone winding, Doubling, reeling- Ply yarn and single yarn Characteristics. Properties required for export quality hosiery yarns. Study of yarn twist and its importance - Various yarn and package defects. Yarn numbering systems. Blended textiles: Types of blending Benefits Double yarn Properties Uses. Classification of Sewing threads and applications core spun sewing thread – Advantages.						

Text Book(s)	
1	A Text Book of Fiber Science and Technology, Mishra, S.P, New Age International (P) Ltd Publishers, New Delhi 2000.
2	Spun Yarn Technology, Eric Oxtoby, Butterworth-Heinemann, Published in 1987.
3	The Motivate Series – Textiles, Wynne, A, Publisher : Macmillan Education Ltd., London, 1997.
4	Hand Book of Textile Fibers – Vol. I and Vol. II. Gordon Cook, J, Wood Head Publishing Ltd., Cambridge, England, 1984.
5	Man-made Fibers, Moncrieff, W, Butterworth Scientific Publication, 1975.
6	Handbook of Textile Fibers: Natural Fibers,J Gordon Cook , Woodhead publication Limited,1984.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://textilelearner.blogspot.com/
2	https://www.textiletoday.com.bd/category/innovations/fiber-yarn-fabric/
3	https://study.com/academy/lesson/textile-yarns-definition-types-classification.html

Course Code	23UTFCP01	BASIC APPAREL DESIGNING PRACTICAL	L	T	P	C
Semester	I	Core Course II	-	-	5	5
Prerequisites	Basic Knowledge in Garment Machineries		Syllabus Version	2023 –2024		
Course Objectives:						
1. To impart practical exposure in sewing operation. 2. To acquaint students with the knowledge on basic sewing techniques. 3. To impart the knowledge and skills required for garment designing.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Manipulate the various seams, seam finish and bias finishing techniques.			P2		
CO2	Customize the fullness methods, placket and fasteners attachments in garment.			P4		
CO3	Construct the various body parts of a garment.			P4		
P1 – Imitation; P2 – Manipulation; P3 – Precision; P4 – Articulation; P5 – Naturalization.						
1. Preparation of Samples for Seams and Seam Finishes. 2. Preparation of Samples for Hems. 3. Preparation of Samples for Facing and binding.(Any2) 4. Preparation of Samples for Fullness. (Darts, Tucks, Pleats, Gathers, Flares, Ruffles, Godets and Gathers) 5. Preparation of Samples for Plackets and fasteners.(Any2) 6. Preparation of Samples for different Sleeves.(Any2) 7. Preparation of Samples for different Collars.(Any2) 8. Preparation of Samples for different Yokes.(Any2) 9. Preparation of Samples for different pockets(Any2)						
Text Book(s)						
1.	Gayatri Verma and Kapil Dev,(2006).Cutting and Tailoring Course. New Delhi: Asian Publishers					
2	KR Zarapker, (2005).Zarapker System of Cutting.New Delhi: Navneet Publications Ltd.					
3	Thangam Subramaniam,(2006). Dress Making- Bombay Tailoring and Embroidery College					
4	Ruth Sleigh Johnson,(2011).Practical sewing techniques. London :AandC Black publishers					
Related Websites						
1	https://ecourseonline.iasri.res.in/mod/page/view.php?id=114171					
2	https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making					
3	https://www.clothingpatterns101.com/style-lines.html					

Course Code	23UTFDE01 A	PATTERN MAKING AND GRADING	L	T	P	C
Semester	I	Elective- 1A	4		-	3
Prerequisites	Basic Knowledge in Pattern and alterations		Syllabus Version		2023 – 2024	
Course Objectives:						
1. To enable the students to develop the ability to create design through flat pattern technique.						
2. To impart skills in dart manipulation.						
3. To enable the students to learn the skills of standardizing body measurements						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Infer about pattern making terminology and steps in taking body measurement.				K2	
CO2	Summarize the pattern drafting techniques and fitting standards for different garments.				K2	
CO3	Generalize the Pattern Draping techniques and its facts.				K2	
CO4	Predict different pattern grades and fabric grains for cutting.				K3	
CO5	Explain pattern alteration techniques and predict the various kinds of pattern layout.				K2	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	BODY MEASUREMENTS					
Importance, Preparation for measuring, Girls and Ladies measurements, Boy’s and Men’s measurements. Standardizing body measurements, Importance, Techniques used. Relative length and girth measurements. Preparation of standardized measurement chart.						
Unit:2	DRAFTING					
Pattern making terminology, Methods of pattern making, Types of paper patterns, Pattern making tools, Steps in drafting Bodice front, Bodice back, Sleeve, Skirt front and back, Collar one piece peter pan and shirt collar. Dart Manipulation, Technique-Slash and Spread method and Pivotal method. Study of commercial pattern, Merits and Demerits. Preparation of commercial pattern for kids. Fitting – Standards of a good fit, Steps in preparing a blouse for fitting, checking the fit of a blouse.						
Unit:3	DRAPING					
Draping -Definition and Meaning, Need for draping, Importance of Draping Technique, Advantages and Disadvantages, Tools and Equipments used for Draping, Preparation of dress form. Importance of grain, preparation of Muslin Material, straightening, tearing and pressing.						
Unit:4	GRADING AND PREPARATION OF FABRIC FOR CUTTING					
Grading, Introduction and importance of grading, Manual Grading of basic bodice – front and back, Sleeve, skirt and Collar, Computerized Grading. Basic terms: Grain, Selvage, On grain, Off Grain, Off Grain Print, With the Grain, Against the Grain, Importance of Grain in Fabric. Cutting Preparing the Fabric for Cutting, Methods of straightening fabric ends, Methods of straightening fabric grain, shrinking fabrics.						

Unit:5	PATTERN ALTERATION AND LAYOUT
Importance of altering patterns , Principles for pattern alteration, common pattern alteration in blouse. Pattern layout- Definition, Purpose, Rules in layout, Types of layout and Special layouts. Piecing, transferring pattern markings.	
Text Book(s)	
1	Mary Mathews, Practical Clothing Construction- Part I and II, - Cosmic Press, Madras,1990
2	Helen Joseph Armstrong, (2014).Pattern Making for FashionDesign.5 th editions. India:Dorling Kindersley
3	GayatriVerma, (2006).Cutting and Tailoring Course. New Delhi:Asian publishers.
4	Connie Amaden Crawford,(2005).The Art of Fashion Draping IIIEdition. OM Books International.
5	LoriA.Knowles,(2005).ThePracticalGuidetoPatternMakingforFashion Designers.NewYork:FairChild,Publications,Inc.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://textilelearner.blogspot.com/2014/03/methods-off-garment-parttern-grading.html
2	https://www.threadsmagazine.com/2008/11/01/making-sense-of-pattern-grading
3	https://www.clothingpatterns101.com/pattern-grading.html

Course code	23UTFDE01 B	BASIC APPAREL DESIGNING	L	T	P	C
Semester	I	Elective - 1B	4	-	-	3
Prerequisites		Basic knowledge about garment components	Syllabus Version		2023 -2024	
Course Objectives:						
The main objectives of this course are to:						
1. Teach the basics of the functions of the sewing and the essential tools						
2. Explain the techniques of the pattern making, grading and alteration						
3. Understand the types of sleeves, yokes and collars						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Describe the functions of a sewing machine and the tools needed for sewing					K2
CO2	Compare the methods of preparing pattern					K2
CO3	Appraise the types of sleeve					K4
CO4	Analyze the types of collars and yokes					K4
CO5	Appraise the techniques in pattern layout, alteration and grading					K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1		Essentials of Sewing				
Parts and functions of a single needle machine, essential tools – cutting tools, measuring tools, marking tools, embroidery tools, general tools, pressing tools, Body measurement–importance, Method of taking measurements for ladies and men. Measurements required for women’s salwar and kameez. Measurements required for men’s shirt and Pant.						
Unit:2		Pattern Making and Grading				
Pattern Making – Types; Drafting, Draping and Commercial Patterns; Advantages and Limitations. Methods of transferring pattern markings; Grain–Importance, its types; Fitting-Standards of a Good fit, Pattern grading(manual)– definition, basic front, basic back, basic sleeve						
Unit:3		Sleeve and Its Types				
Sleeves–definition, types, set-in-sleeves–plainsleeve, puffsleeve, bishopsleeve, bell, circular. Modified armhole–squared armhole. Capsleeve and Magyar sleeve. Sleeve and bodice combined– raglan, kimono and dolman						
Unit:4		Types of Collars and Yokes				
Collars–definitions, types, peterpan, scalloped, puritan, sailor, square, rippled, full shirt collar, open collar, Chinese, turtle neck, shawl collar Yokes–types, simple yoke, yoke with fullness within the yoke, yoke supporting /releasing fullness.						
Unit:5		Types of Plackets, Fasteners and Pocket				
Plackets – Definition, types, One piece placket, Two piece placket, Zipper placket Fasteners – Uses, Types, Hook, Zip, Buttons, Pockets – Types, Patch pocket, Set in Pocket						
Text Book(s)						
1	Practical Clothing Construction–Part I, Mary Mathews, Cosmic Press, Chennai,1986.					
2	Practical Clothing Construction– Part II, Mary Mathews, Cosmic Press, Chennai,1986.					
3	Zarapker system of cutting–Zarapker.K.R.,NavneetpublicationsLtd,1994.					

4	GayatriVermaandKapilDev,(2006). <i>CuttingandTailoring Course</i> . NewDelhi:Asian Publishers
5	ThangamSubramaniam,(2006).DressMaking-BombayTailoringandEmbroideryCollege
6	RuthSleighJohnson,(2011).Practicalsewingtechniques.London:AandCBlackpublishers
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]	
1	https://ecourseonline.iasri.res.in/mod/page/view.php?id=114171
2	https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making
3	https://www.clothingpatterns101.com/style-lines.html

Course Code	23UTFDE01 C	FASHION FORECASTING	L	T	P	C
Semester	I	Elective –1C	4	-	-	3
Prerequisites	Basic Knowledge in Fashion		Syllabus Version	2023 –2024		
Course Objectives:						
1. Gain a better understanding of a fashion direction, trends and color forecasting						
2. Impart knowledge on forecasting, role of forecaster and process of forecasting						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Describe the Forecasting trends				K2	
CO2	Understand the fashion direction				K2	
CO3	Analyze the scope and functions of fashion forecasting				K4	
CO4	Evaluate the forecasting process through various methods				K5	
CO5	Analyze the colour forecasting process				K4	
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1	Forecasting Trends					
Trend forecasting- Introduction, Objectives. Importance of forecasting, Elements of forecasting, Principles of forecasting, Theories explaining forecasting, Steps in forecasting, Major areas of forecasting, Advantages and limitations in forecasting.						
Unit:2	Fashion Direction					
Fashion Movement; Theories of Fashion Change; Directional Theories of Fashion: Change in Tandem, Model of Vertical Flow.						
Unit:3	Fashion Forecasting					
Fashion forecasting, Role of fashion forecaster, Long- term forecasting, Short- term forecasting. Forecasting with Trend, Time series and Trends, Constant pattern, Linear pattern. Role of internet in fashion forecasting.						
Unit:4	Forecasting Process					
Fashion forecasting process, Activities. Market research- Consumer research, Shopping, Sales records, Fashion services and resources- Collection reports, Trend reports, Consulting services, Fashion editing, Trade publications.						
Unit:5	Colour Forecasting					
Colour forecasting- Steps in Colour forecasting - Colour forecast reports. Dimensions of Colour, Colours in Marketing, Consumers and the Psychology of Colours. Forecasting with Colour Cycles, Colour Research, and Sources for Colour Ideas and Palettes.						
TextBook(s)						
1	The fashion Forecasters: a hidden history of color and trend prediction – Blaszczyk, Regina Lee – Wubs, Ben Editor. 2018					
2	Colour Forecasting for Fashion, Laurence King Publishing, London. 2012					
3	GiniStephensFrings,Fashion–FromConcepttoConsumer,6 th edition,PrenticeHall,1999.					
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]						
1	https://en.wikipedia.org/wiki/Fashion_capital					
2	http://www.technopak.com/Files/fashion-retail-scenario-in-india.pdf					
3	https://get-green-now.com/environmental-impact-fast-fashion/					

Course code		E- DESIGNING PRACTICAL	L	T	P	C
Semester	I	Skill Enhancement Course – I (NME)	-	-	2	2
Prerequisites		Basics of E-Designing	Syllabus Version		2023 –2024	
Course Objectives:						
- Aims to develop creative skills for visual Communication, principles and color harmony designing. - Analyze, select and apply tools appropriate for creating a design. - To develop designing skill for various costumes.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Understanding of visual communication design					K2
CO2	Analyzing color harmony					K4
CO3	Applying color harmony in design					K3
CO4	Creating designs by using principles					K6
CO5	Evaluate the designing skills					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
1. Using design software create the following visual communication design						
- Create brand name and design logo for it. - Design Visiting card, Letter pad and Envelop design - Design a Calendar - Design Label for your brand - Design Tag for your brand						
2. Application of colour harmony in Design						
- Monochromatic colour harmony - Analogous colour harmony - Complementary colour harmony - Double Complementary colour harmony - Split complementary colour harmony - Triad colour harmony - Tetrad colour harmony - Neutral colour harmony						
3. Applications of principles of design in dress design						
- Balance –Formal and informal - Rhythm – by line movement, gradation, repetition. - Emphasis - Proportion - Harmony						

Text Books	
1	Bride M. Whelan, —Colour Harmony – A Guide to Creative Colour Combinations, Rockport Publishers, USA (1997).
2	James Stockton, —Color, Chronicle Book Publishers, San Francisco (1984).
3	Computer Aided Design and Manufacturing (Test CAD Programs Inside), Sadhu Singh, Khanna Publications, 1998.
Related Online Content [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://medcraveonline.com/JTEFT/various-approaches-in-pattern-making-for-garment-sector.html
2	https://www.youtube.com/watch?v=jTWtQNTJt_A
3	https://www.youtube.com/watch?v=iX7O4X7O4fNQjA

Course Code	23UTFFP01	BASIC ILLUSTRATION AND SKETCHING PRACTICAL	L	T	P	C
Semester	I	Skill Enhancement Course (Foundation Course)	-	-	2	2
Prerequisites	Basic Knowledge in sketching and illustration		Syllabus Version	2023 –2024		
P1 – Imitation; P2 – Manipulation; P3 – Precision; P4 – Articulation; P5 – Naturalization.						
Course Objectives:						
1. Students will learn the basic objects drawing and shades. 2. They will learn basic head theories and draw human figures at different angles 3. They will create garment design for various seasons on fashion figures.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Compose various types of garment and its parts				P4	
CO2	Design different kinds of accessories and ornaments				P4	
CO3	Deconstruct the various head theories of human figures, features and different positions of body parts.				P3	
1. Different types of collar, Sleeve, Neckline and skirts. 2. Different types of ladies tops, Shirt, Pant(Full and half) 3. Different types of Accessories – Bags ,footwear , hats etc 4. Different types of Ornaments 5. Facial features – Eyes ,nose , lips, Ears 6. Face ,hands legs – Different positions 7. Lay figure -7 1/2 head 8. Fashion figure -8 , 10 ,12 head. 9. Illustrate Male and Female face – Front View, Three quarter turned view and Profile View (Side View)						
Text Book(s)						
1	Patric John Ireland, Fashion Design Illustration –Women, B.T.Batsfort Ltd, London (1993).					
2	Patric John Ireland, Fashion Design Drawing and Presentation, B.T.Batsfort Ltd, London (1982).					
3	Patric John Ireland, Fashion Design Illustration –Men, B.T. Batsfort Ltd, London(1996).					
4	Wolfgang. H. Hageney, Checks And Stripes –Classic Variations in Colour Vol.I, Belveden (1997).					

SECOND SEMESTER

Course Code	23UTFCT02	WOVEN FABRIC SCIENCE	L	T	P	C
Semester	II	Core Course - III	5	-	-	5
Prerequisites	Basic Knowledge in woven fabric formation and structure		Syllabus Version	2023 –2024		
Course Objectives:						
1. To impart knowledge on woven fabrics 2. To help students understand fabric formation process. 3. To impart knowledge on woven fabric Designs and Structures.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Clarify the preparatory processes involved in the woven fabric production.					K2
CO2	Explain the principles of sizing process and its methods.					K2
CO3	Infer about the basic mechanism of loom and its structure.					K2
CO4	Categorize the woven fabrics and its structure					K4
CO5	Differentiate the types of looms and jacquard mechanisms involved in woven fabric production.					K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	Preparatory Process					
Classification of fabric forming methods – Weaving preparatory processes - Objects of winding process – Winding types – Passage of material through high-speed automatic cone winding machine – Passage of material through precision winding machine – Winding terminologies, open wind and close wind – Winding defects, causes and remedies. Pirn winding – Objects - Passage of material through an automatic high speed pirn winder.						
Unit:2	Sizing Process					
Objects of warping – Types of warping – Passage of material through high-speed modern beam warping machine and sectional warping machine – Warping defects, Causes and remedies. Objects of sizing – comparison of two cylinder, multi cylinder and hot air sizing machines – Sizing ingredients and their functions – Size paste preparation – Sizing defects, causes and remedies						
Unit:3	Basic Mechanisms of Looms					
Passage of material through a plain power loom – Basic mechanisms of a loom – Primary, secondary and auxiliary motions – Tappet shedding – Cone over pick and under pick mechanisms – Beat up mechanism – Types of let off and take up mechanisms – Fabric defects, causes and remedies						
Unit:4	Weaving and its types					
Introduction to weaves – Weave diagram – Plain weave and derivatives – Twill weave and derivatives – Satin and sateen weaves – Ordinary and Brighten Honey Comb; Huck-a-Back; Mock Leno; extra warpan and extra weft figuring – single and double colour.						
Unit:5	Loom types					
Objects of dobby and jacquard mechanisms – Types of dobby and jacquard – Study of negative and positive dobbies – Study of single cylinder and double cylinder jacquard mechanisms. Shuttle less looms: Introduction - Advantages - Types of shuttle less looms: projectile, rapier, air jet, water jet and multi phase weaving.						

Text Book(s)	
1	R.Marks, A.T.C. Robinson, Principles of Weaving, The Textile Institute, Manchester(1976)
2	B.Hasmukhrai, Fabric Forming, SSM ITT Co operative stores Ltd, Komarapalayam(1996).
3	K.T.Aswani, Fancy Weaving Mechanism, Mahajan Book Distributors, Ahmadabad(1990).
4	N.Gokarneshan, Fabric Structure and Design, New Age International Publishers,New Delhi(2004).
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]	
1	https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designs-introduction-to-woven-fabric/
2	https://www.textileschool.com-453-wovendesign-
3	https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and-weave-relationship-in-woven-fabric

Course code	23UTFCP02	FIBRE TO FABRIC SCIENCE PRACTICAL	L	T	P	C
Semester	II	Core Course – IV	-	-	6	5
Analytical Study of Textile Fibres, Yarns and Fabrics				Syllabus		2023 –2024
Course Objectives:						
- To determine and testing of textile fibres and yarns - To identify the different types of weaves - To understand the woven fabrics designs						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Remembering of fibre identification					K1
CO2	Evaluating yarn count and twist					K5
CO3	Analyze the various woven fabric design					K4
CO4	Understanding of fabric particulars					K2
CO5	Create fibre to fabric analysis systems					K6
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
LIST OF EXPERIMENTS						
Analyze the following tests in fibers and Yarn						
1. Identification of fibers- Cotton, Silk, Wool, Polyester, Viscose, Nylon						
2. Determination of blend proportion of P/C, P/V,P/W blends						
3. Determination of Yarn count						
4. Determination of Yarn Twist						
5. Determination of Fabric Count (EPI x PPI)						
Analysis the following fabrics for Design, Draft, Peg Plan, Ends per inch, Picks per inch, Dents per Ends, Yarn count, Yarn crimp, Cover factor and Weight per square yard of fabrics						
6. Plain weave and its derivatives						
7. Twill weaves – 2/1, 3/1.						
8. Satin / Sateen						
9. Pointed Twill Weave						
10. Honey comb						
11. Huck – a – back						
12. Crepe weaves						
13. Extra Warp – Dobby and Jacquard Weave						
14. Extra Weft- Dobby and Jacquard Weave						
15. Mock leno						
16. Pile weave						
Text Book(s)						
1	Handbook of Textile fibers, Woodhead Publications, (1984).					
2	N.Gokarneshan, Fabric Structure and Design, New Age International Publishers, New Delhi(2004).					

Course Code	23UTFDE02 A	APPAREL MANUFACTURING MACHINERIES AND EQUIPMENTS	L	T	P	C
Semester	II	Elective – 2A	5	-	-	3
Prerequisites	Basic Knowledge in Garment Machineries		Syllabus Version		2023 - 2024	
Course Objectives:						
1. To acquaint students of the basic production machinery and equipment used in apparel construction. 2. To learn about the garment industry. 3. To learn the working process of the various departments in garment industry.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Describe the various machineries and process involved in fabric spreading and cutting.		K2			
CO2	Generalize the types of garment production machineries and its application methods.		K2			
CO3	Summarize the sewing machines and its special attachments for higher production.		K4			
CO4	Explain the special machines and its functions in Garment Industry.		K2			
CO5	Identify garment finishing machineries and its working principles.		K4			
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	Introduction to Garment Industry Process					
Introduction to garment industry process details. Spreading machine: Types and working Procedures. Cutting machines: Types of cutting machines and its application – Detailed study on bandknife, straight knife, drills and notches.						
Unit:2	Classification of Garment Manufacturing Machines					
Classification of garment manufacturing machines and applications. Studies on different sewing Machine – Lockstitch machine (chain stitch formation) - Features of advanced lock stitching machines. Over lock machine – Classification - Three thread over-lock machine – Stitch forming elements. Brief study on double needle lock stitch machine, flat lock machines.						
Unit:3	Sewing Machine and its Details					
Sewing machine shapes - Sewing machine bed types-Description and application of each bed – Flat bed - Cylinder bed - Post bed – Applications. Feed mechanisms – Types - Drop feed – Compound feed-Unison feed– Drop and variable top feed – Differential bottom and variable top feed (description of each type of feed mechanisms with sketch).						
Unit:4	Machine Parts					
Requirements – Guides – Types (edge and curve guide) - Compensating foot - Specialized presser Foot – Stitching jig- hem folders - Slack feeding and elastication – Cutting aids (threads, elastic and tapes) - Stacker. Simple automatics - Button hole – Button sew – Bar tack machine - Label sewers. Types and parts of machine needles – Needle sizes – Details of stand, table and motor for sewing machines.						
Unit:5	Garment Finishing Process					
Introduction to various machines for garment finishing – Fusing – Sucking – Ironing - Packing. Pressing- Purpose of pressing –Categories of pressing-The means of pressing-pressing equipment and methods-Iron and steam presses. Packaging-Types of package forms-Types of packaging materials-Quality specification of packaging materials-Merchandising Packaging- Shipment packaging-Selection of package design.						

Text Book(s)	
1	The Technology of Clothing Manufacture, Harold Carr and Barbara Latham, Publication by Blackwell Science Ltd, England 1994.
2	Introduction to Clothing Manufacture, Gerry Cooklin, Publication by Blackwell Science Ltd, England 1991.
3	Terry Bracken bury, Knitted Clothing Technology, Publication by Blackwell Science Ltd, England, 1992.
4	Clothing Construction and Wardrobe Planning, Dora.S.Lewis, Mabel Goode Bowers and Marietta Kettunen, Publication by The Macmillan Company, New York, 1955.
Related Online Contents[MOOC,SWAYAM, NPTEL,Websitesetc.]	
1	https://www.onlineclothingstudy.com/2018/05/machinery-needed-for-garment.html
2	https://garmentsmerchandising.com/garment-machine-function/
3	https://dir.indiamart.com/indianexporters/m_textmch.html

Course code	23UTFDE02 B	CARE AND MAINTANENCE OF TEXTILES	L	T	P	C
Semester	II	Elective- 2B	5		-	3
Prerequisites		Basic knowledge about fabric and garment care	Syllabus Version		2023 –2024	
Course Objectives:						
The main objectives of this course are to:						
1. Gain a better understanding method in taking proper care of the clothing						
2. Impart knowledge on machines and equipment’s used in the washing, storing and ironing process						
3. Impart knowledge on the types of wash care labels and their meaning						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Identify suitable methods of washing, drying, ironing and storing					K1
CO2	Understand the wash care labels and act accordingly					K2
CO3	Appraise the types of equipment used in the care of fabrics					K3
CO4	Recognize the need for dry cleaning for fabrics					K2
CO5	Evaluate the methods and equipments to be used for a better life of clothes					K5
K1 -Remember; K2 -Understand;K3 -Apply; K4 -Analyze; K5 -Evaluate;K6 –Create						
Unit:1						
Water and Laundry Soaps						
Water- hard and soft water, methods of softening water.						
Laundry soaps - composition of soap types of soap, soap less detergents, detergent manufacture, advantages of detergents, Manufacturing process of soap and detergents						
Unit:2						
Finishes and Stain Removal						
Finishes – Stiffening Agents – Starch (cold water and hot water) , Other stiffening agents, preparation of starch Laundry blues, their application.						
Stain removal – common methods of removing stains; food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration / mildew, tar, turmeric and kum- kum,						
Unit:3						
Washing, Drying and Ironing						
Washing – Points to be noted before washing. Machine – types semi-automatic and Fully automatic; Top loading and front loading; wash cycles in a washing machine						
Drying equipment’s– Indoor and outdoor drying						
Iron box – Parts and functions of an electric iron box; types - automatic iron box and steam iron. Ironing board – different types						
Unit:4						
Laundering of Different Fabrics						
Laundering of different fabrics – cotton and linen, woolens, coloured fabrics, silks, rayon and nylon. Special types of Laundry – waterproof coats, silk ties, leather goods, furs, plastics, lace.						
Unit:5						
Storing, Dry Cleaning and Care Labels						
Storing – Methods of storing clothes, Best way to store clothes						
Dry cleaning – Benefits, differences between dry cleaning and laundry, Steps in dry cleaning process						
Care labels – Importance and Types - The International Care Labelling System, The Japanese Care Labelling System, The Canadian Care Labelling System, The European Care Labelling System, The American Care Labelling System						

Text Book(s)	
1	Wingate I B , Textiles fabrics and their Selection, Prentice-Hall Inc Publishers, 1946
2	Fundamentals of Textiles and their Care- Susheela Dantyagi , Orient Longmann Ltd, 1980
3	Mildred T. Tate and Glisson O, Family Clothing, John Wiley and Sons Inc, Illinois, 1961
4	Durga Deulkar , Household Textiles and Laundry Work, Amla Ram and Sons, Delhi, 1951
Related Online Contents [MOOC, SWAYAM,NPTEL, Websites etc.]	
1	https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-on-how-to-do-laundry#Step1
2	https://www.coats.com/en/Information-Hub/Care-Labels#:~:text=Labels%20should%20be%20designed%20based,5)%20Wringing%20%26%2006)%20Drying
3	https://www.customclothinglabels.com/uses/why-are-care-labels-so-important/#:~:text=Care%20labels%20are%20essential%20when,run%20could%20ruin%20the%20fabric.
4	https://www.drycleaning.com.sg/blog/5-differences-between-dry-cleaning-and-laundry.html
5	https://www.rinse.com/blog/care/what-is-dry-cleaning/
6	https://fleming.ca.uky.edu/files/clothing_storage.pdf
7	https://www.home-storage-solutions-101.com/clothes-storage.html

Course code	23UTFDE02 C	GARMENT ACCESSORIES AND TRIMS	L	T	P	C
Semester	II	Elective- 2C	5		-	3
Prerequisites		Basic knowledge about types of accessories and trims used in garment	Syllabus Version		2023 -2024	
Course Objectives:						
The main objectives of this course are to:						
1. To impart knowledge on different trims, components and accessories used in apparel industry						
2 To gain knowledge about quality requirements in accessories						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Learn about various types of closures used in garment					K3
CO2	Distinguish the types of accessories used in garment					K2
CO3	Assess the various types of closures used in apparels					K3
CO4	List out the quality requirements for polybags					K2
CO5	Differentiate the different types of fiber used in Sewing and Embroidery threads					K3
K1 -Remember; K2 -Understand;K3 -Apply; K4 -Analyze; K5 -Evaluate;K6 –Create						
Unit:1	Garment Accessories					
Introduction to garment accessories – selecting garment accessories- Types of garment accessories; Basic Accessories – Decorative accessories – Finishing Accessories – Accessories for Children’s wear – Design development for different accessories – Safety issues for different accessories in children’s garment – Decorative trims and Embellishments.						
Unit:2	Sewing and Embroidery Threads					
Sewing threads – Textile fibers used for making sewing threads – Thread Construction – Ticket Number – Quality parameter applicable to sewing threads and testing. Thread packages – Embroidery threads – Quality requirements – Fibers used for embroidery threads – Quality evaluation for embroidery threads.						
Unit:3	Closures					
Zippers – Components parts – types – Application techniques – Quality parameters and testing – Buttons – types – Quality requirements and testing procedures – Elastic – Application techniques- types – Quality requirements and testing procedures. Draw strings – Method of application- Quality parameters – Velcro – Method of application techniques – Quality parameters – hooks – types – methods of application – Quality norms						
Unit:4	Supporting and Decorative Trims					
Lining : Importance - Method of application – Quality requirements – Interlining : Importance - Types - Method of application – Quality requirements - Fusing foam : importance – Types – Method of application – Quality requirements – Label and its types – Method application on garment – Quality requirements – Lace – Importance and its types – Quality parameters – Method of application – Appliqué : Importance – Types of materials – Applique cutting techniques – Application methods – Quality requirements . Sequins: Introduction about various sequins and their types – Application techniques – Quality requirements.						

Unit:5	Packing Accessories
Tags and its types – Quality requirements – Poly bags and its types - Quality norms pertaining to poly bags – Hangers and its types – Cartons and its types –Testing required for apparel export Cartons – Factors to be considered for export cartons - Wrappers and Tissues – Pouches for inner wear – Latest innovation in packing	
Text Book(s)	
1	Fashion apparel accessories and home finishing"s, Diamond Professor Emeritus, Jay; Diamond Ajunct Faculty, Ellen., Prentice Hall, 2006 2 Know Your Fashion Accessories, Celia Stall
2	Fashion apparel accessories and home finishing"s, Diamond Professor Emeritus, Jay; Diamond Ajunct
3	Carr and Latham"s Technology of Clothing Manufacture, Edited by David J. Tyler, 2009
4	Apparel Manufacturing Handbook, Analysis, Principles and Practice, Jacob Solinger, Bobbin Media Corporation, 1988
Related Online Contents [MOOC, SWAYAM,NPTEL, Websites etc.]	
1	https://ordnur.com/textile/list-of-trimmings-and-accessories-use-in-garments
2	https://www.onlineclothingstudy.com/2018/10/the-fusing-technology-fusing-parameters.html
3	https://apparelresources.com/fashion-news/trends/trims-and-accessories-from-beingfunctional-to-giving-an-innovative-edge-to-garments/
4	https://medium.com/@stitchdiary/importance-of-decorative-trims-in-the-garment-industry3b306e4b59ef

Course code		NEEDLE CRAFTAND FABRIC PAINTING PRACTICAL		L	T	P	C
Semester	II	Skill Enhancement Course – II (NME)		-	-	2	2
Prerequisites		Knowledge on basic craft work		Syllabus Version		2023-2024	
Course Objectives:							
1. To impart knowledge to the students about the needle craft products. 2. To learn the various types of stitches. 3. To provide opportunity for skill development in Needle craft products. To impart knowledge on usage of different threads for different purpose							
Expected Course Outcomes:							
On the successful completion of the course, student will be able to:							
CO1	Produce the hand and machine embroidery samples						P4
CO2	Prepare decorative samples using beads or mirrors or sequins or etc.,						P5
CO3	Develop complex fashion accessories by learning to design different accessories manually						P5
P1 –Imitation; P2 –Manipulation; P3 –Precision; P4 –Articulation; P5 –Naturalization.							
Prepare the following Samples							
1. Crochet – Samples (2-4) 2. Fringes – Samples 2 3. Tassels – Samples 2 4. Prepare each 2 samples on Braiding and Knotting Techniques							
Prepare sketches for the following							
Prepare Color wheel Chart							
1. Free Hand Painting – 2 Samples 2. One Stroke painting and Multi Stroke Painting – Each 1 3. Dry brush Painting – 1 Sample 4. Wet brush Painting – 1 Samples 5. Stencil Painting – Positive and Negative – Each 1 Samples							
Text Book(s)							
1	Needle craft (Rd Home Handbook Series) Paperback – Import, 1 May 1990						
2	Crafts of India – Handmade in India – Aditi Ranjan and MP Ranjan, Council of Handicraft Development Corporations., 2007						
3	The Arts and Crafts of India and Ceylon by Coomara-Swamy, Ananda K., Noonday Press, New York, 1964..						
4	Craft Atlas of India By Jaya Jaitly, Niyogi Books, New Delhi, 2012						
5	The Complete Book of Fabric Painting, Linda S Kanzinger, The Alcott press, 1993						
6	Fabric Painting with Cindy Walter: A Beginner's Guide, ebook, Sep 2011						

THIRD SEMESTER

Course code	23UTFCT03	TEXTILE WET PROCESSING	L	T	P	C
Semester	III	Core Course – V	4	-	-	4
Prerequisites		Basic knowledge in Textile Processing	Syllabus Version	2023-2024		
Course Objectives:						
The main objectives of this course are to:						
1. Dye and Print the fabrics the using suitable dyes and prints						
2. Prepare on Effluent and its impact						
3. Prepare the fabric for finishing						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Generalize the pre-preparatory process sequence in a textile industry					K2
CO2	Explain the types of finishes used in textile materials					K2
CO3	Discover the textile dyes and dyeing methods					K3
CO4	Infer about direct printing methods					K2
CO5	Outline about discharge printing and the need for effluent treatment					K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1		Wet Processing Process and Basic Finishes				
Process sequence of textile wet processing; Finishes types – Basic finishes, Aesthetic finishes, Functional finishes and Special purpose finishes. Basic Finishes – Singeing, desizing, scouring, bleaching and mercerizing – Process sequence and methods.						
Unit:2		Aesthetic, Functional and Special Finishes				
Aesthetic finish– glazed, Moire, embossed, napped finish Functional finish – Water repellant, flame retardant, antistatic finish Special purpose finish – fragrance, antibacterial, stone wash and enzyme wash in denim Recent trends – Microencapsulation and nano finishes.						
Unit:3		Dyes and Dyeing Machines				
Dyes – classification and suitability of dyes to the fabric, stages of dyeing – fiber, yarn, fabric andgarment dyeing, Natural dyes and its significance, Dyeing machines – loose stock fiber bale – hank package – jigger – winch – HTand HP Beam, jet – padding mangles. Garment dyeing machines						
Unit:4		Direct Printing				
Printing – Difference between dyeing and Printing. Preparation of Printing Paste, Properties and types of Thickeners, Direct Printing – Block Printing - History and techniques used. Screen Printing – Flat screen and Rotary screen, techniques used.						
Unit:5		Resist, Discharge Printing and Effluent Treatment				
Discharge Printing, other methods – Digital Printing, Heat transfer printing Effluent Treatment – Pollution created by the processing unit, Process sequence in Effluent treatment Plant.						
Text Book(s)						
1	Textile Chemistry, Paters R.H, Elsevier Publishing , 1967.					
2	Technology of Textile Processing, Shenai V.A., Sevak publications, Bombay, 1981.					
3	Textile Finishing , Shenai.V.A. Sevak Publications, Mumbai, 1999.					
4	Functional Finishes, Menachem Lewin and Stephen B. Sello, Marcel Dekker, Inc., 1984.					
5	Textile Finishing, R.S.Prayag, Shree J Printers, India, 1994.					
Related Online Contents [MOOC, SWAYAM, NPTEL, Websitesetc.]						
1	https://textilecourse.blogspot.com/2018/08/working-process-printing-					
2	http://www.neoakruthi.com/blog/etp-for-textile-industry.html					
3	https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html					
4	https://www.textileschool.com/343/fabric-wet-processing-techniques/					
5	https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview					

Course code	23UTFCP03	CHILDREN'S APPAREL PRACTICAL	L	T	P	C
Semester	III	Core Course – VI	-	-	4	4
Prerequisites		Basic knowledge about sewing kids wear	Syllabus Version		2023 –2024	
Course Objectives:						
1. Designing, drafting and constructing the following garments for the features Prescribed						
2. List the measurements required and materials suitable for the garment						
3. Calculate the material required-Layout method and direct measurement Method						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Design and generalize the measurements for the various kids’ garments.					P3
CO2	Prepare patterns and calculate material requirement for the designed kid’s wear.					P3
CO3	Construct the designed kid’s garment and calibrate the cost of the garment.					P5
P1– Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5 –Naturalization.						
Prepare the following garments						
1. Bib- Variation in outline shape						
2. Panty-plain or plastic lined panty						
3. Jabla- without sleeve, front open (or) Magyar sleeve, back opens						
4. Baba suit- Knicker with chest piece attached (or)Romper						
5. A-Line Frock- double pointed dart, neck line and arm hole finished withfacing						
6. Summer frock- with suspenders at shoulder line, without sleeve/collars(or)Angel top with raglan sleeve, fullness at neck line						
7. Yoke frock- yoke at chest line, with open, puff sleeve, gathered skirt9OR0frock-with collar, without sleeve, gathered/ circular skirt at waist line(or) Princess line frock						
8. Knicker- elastic waist, side pockets.						
9. Shirt- open collar, with pocket						
Text Book(s)						
1	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai(1986)					
2	Zarapker System of Cutting- Zarapker. K. R, Navneet Publicationsltd.					
3	Cutting and Tailoring course, Gayathri Verma and Kapil Dev, Computech Publications					
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]						
1	https://epgp.inflibnet.ac.in/home/viewsubject?catid=827					
2	https://www.youtube.com/watch?v=LuazkYL0j3a					
3	https://www.youtube.com/watch?v=nI-shbmnuVg					

Course code	23UTFDE03 A	FASHION DRAPING PRACTICAL	L	T	P	C
Semester	III	Elective - 3A	-	-	4	3
Prerequisites	Basic knowledge in draping, body silhouettes and various fabrics		Syllabus Version		2023 –2024	
Course Objectives:						
The main objectives of this course are to:						
1. To understand the basic draping and manipulation techniques.						
2. To design and develop patterns for different garments based on the body measurements.						
3. To interpret and transform their designs on a three-dimensional form using draping method.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Prepare muslin and formulate the measurements for various garment’s draping					P3
CO2	Produce the pattern blocks in dress form for various garments					P5
CO3	Create dart or pleat variations in appropriate garment patterns					P5
P1– Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5 –Naturalization.						
Prepare the following samples						
1. Bodice - Front and Back						
2. Skirt - Front and Back and Its Types						
3. Pant - Front and Back						
4. Sleeve - Bell, Raglon, Cape, Puff, Circular, Kimono						
5. Neckline - Boat, Key Hole, Halter, Scooped, Scalloped						
6. Collar - Mandarin, Peter pan, Turtle, Ruffled and Shawl						
7. Cowls						
8. Twist						
9. Surplice						
10. Yoke - Hip Yoke, Midriff and Shirt Yoke						
11. Design and Drape one couture wear for Men and Women						
Text Book(s)						
1	Draping for Fashion Design, 5 th Edition, Nuriesrelis, Hilde Jaffe and Rose Mary Torre,Pearson Prentice Hall Publications, United States, 2012.					
2	The Art of Fashion Draping, Connie Amadan Crawford, Fair Child Publications, New York,2005.					
3	Draping for Apparel Design – 3 rd Edition, Helen Joseph and Armstrong, India, Bloomsbury Publications India Ltd, 2013.					
4	Cutting and Draping Special Occasion Cloths: Designs for Party wear and Evening wear,Dawn Cloak, London, Batsford, 1998.					
Related Online Contents[MOOC,SWAYAM, NPTEL, Websites etc.]						
1	https://style2designer.com/apparel/draping-mannequin/what-is-draping-technique-and-its-process/					
2	https://www.aicp.fr/portfolio-items/moulage-technique-du-moulage/?lang=en#:~:text=Draping%2C%20the%20most%20ancient%20of,to%20create%20a%20fabric%20prototype					

Course code	23UTFDE03 B	FASHION BUSINESS COMMUNICATION	L	T	P	C
Semester	III	Elective- 3B	4	-	-	3
Prerequisites	Advanced knowledge about fashion concepts and fashion markets			Syllabus Version	2023 – 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Enable students to know about fashion cycle.						
2. Understand the importance of fashion forecasting.						
3. Explain on Fashion communication and visual merchandising.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Remember Fashion cycle and role of fashion designers					K1
CO2	Understand how to forecast fashion					K2
CO3	Apply various effective communication methods between buyer and consumer					K3
CO4	Analyse various levels of fashion business					K4
CO5	Evaluate on fashion styling and strategy					K5
K1-Remember;K2 -Understand;K3 -Apply;K4 -Analyze;K5 -Evaluate;K6– Create						
Unit:1	Fashion Environment					
Fashion environment-Introduction to fashion industry – Fashion environment – Demographic and Psychographic, Economic, Sociological and psychological factors – Fashion cycle. Fashion business – Design						
Unit:2	Fashion Forecasting					
Fashion Forecasting – Fashion forecasting – Need for forecasting – Forecasting agencies – Role of forecasting agencies – Fashion						
Unit:3	Fashion Designers and Merchandisers					
Fashion business – Scope of fashion business – Primary level, secondary level and retail level – Type of fashion designers – Role of fashion designers – Indian fashion designers – Principles of merchandising –Types of merchandising – Role of merchandiser – Effect of Consumer – Types of buyers –communication with buyers and consumers.						
Unit:4	Fashion Communication					
Fashion communication-scope, need of fashion communication in fashion industry. Fashion Photography, information graphics, animation, experiential design.						
Unit:5	Visual Merchandising					
Visual Merchandising, Design strategy, fashion styling, publication design, prop design, set design, traditional folk media, and fashion journalism for new media.						
Text Book(s)						
1	Inside the Fashion Business, 7 th edition, Bennet, Coleman and O Ltd, Mumbai, 1998.					
2	Visual Merchandising and Display, 6 th edition, Martin M. Pegler, Fairchild Books, UK, 2011.					
3	New Trends in Visual Merchandising – Retail Display Ideas that encourage Buying, Judy Shepard, Harper Design Publishers, New York, 2013.					
4	Retail fashion Promotion and Advertising, Drake et.al.,Macmillan Publications Company, Karnataka, 1991.					
5	Fashion from Concept to Consumer, 9 th edition, Gini Stephens Fringes, Pearson Education Ltd, Harlow, 2014.					
Related Online Contents [MOOC,SWAYAM,NPTEL,Websitesetc.]						
1	https://www.sustainyourstyle.org/old-environmental-impacts					
2	https://www.sustainyourstyle.org/old-environmental-impacts					

3	https://design.careers360.com/articles/know-all-about-fashioncommunication#:~:text=Fashion%20communication%20is%20a%20specialised,the%20fashi on%20and%20lifestyle%20industry
4	https://www.thebalancesmb.com/the-5-most-important-elements-of-visual-merchandising2890501
5	https://study.com/academy/lesson/what-is-visual-merchandising-definition-objectivestypes.html
6	https://www.justdesigninstitute.com/fashion-designer-and-fashion-merchandiserdifferences/#:~:text=Fashion%20designers%20conceptualise%20clothing%20and,fashion%20designer%20and%20fashion%20merchandiser.

Course code	23UTFDE03 C	BASICS OF COSMETOLOGY	H			C
Semester	III	Elective- 3C	4	-	-	3
Prerequisite		Basic knowledge about grooming.	Syllabus Version		2023 – 2024	
Course Objectives:						
1. To gain knowledge about personal grooming						
2. To enable the student to develop knowledge in dressing and makeup to the Etiquettes						
3. To help them to understand and apply the procedures for different personalities						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Importance of cosmetology					K1
CO2	Understand Equipment used for pedicure, basic pedicure technique					K2
CO3	Be aware of Equipment and techniques used for Manicure					K2
CO4	Analyze skin and hair					K3
CO5	Apply face makeup					K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1						
Cosmetology						
Cosmetology – Introduction, Definition and its importance- difference between beautician and cosmetologist -features of a cosmetologist -Types and application- Self- grooming –definition and its importance.						
Unit:2						
Pedicure						
Pedicure, definition, need for pedicure, tools and equipment used for pedicure, step by-step procedure of pedicure-, pedicure technique– benefits – difference between spa and regular pedicure - pedicure safety.						
Unit:3						
Manicure						
Manicure- equipment used for Manicure, Types- French, hot oil, dip power manicures-Paraffin wax treatments -shaping of nails, removal of the cuticles, Mehendi- Classical, Arabic, Glitter, Painting and Nail Art-Nail Care.						
Unit:4						
Skin and hair						
Structure and function of skin, Skin types, skin tones, tips for skin care and steps in basic facial. Care for skin and hair-Basic Hairstyles: Knotted style - Rolling style - Plaited style- Basic structure of skin and hair, Products available, skin and hair care, make up for face and hairdo styles.						
Unit:5						
Face makeup						
Face makeup- meaning, make up application, Make- up types, shape and colour of Hair, hair care and hair styles for occasion. Basic Haircuts - Straight Trimming, —Ull - cut and—Vll – Cut.						
Text Book(s)						
1. Dr. NeenaKhanna, Body and Beauty Care, PustakMahal Publishers, (2011).						
2. Rashmi Sharma,Herbal Beauty and Body Care. PustakMahal Publishers, (2011).						
3. Richa Dave, Make-up Album, Navneet Publication, (2006).						

Reference Books

1. Catherine M. Frangie. Milady, Standard cosmetology, Milady Publishing Company. (2014).
2. Roshini Dayal, Natural Beauty Secrets from India, Tata publishing Enterprises. LLC, (2008).
3. P.J. Fitzgerald., The complete book of Hairstyling, Mansoor bookhouse, (2003)
4. Trinny woodwall, sunsanna constantive, .
4. What Not to Wear for Every Occasion, Part-2, Orion Publishing book group, U.K, (2003).
5. Helena Biggs, Nail Art: Inspiring Designs, by the world's leading technician, Arcturus Publishing limited, U.S, (2014).

Course code	23UTFSP01	BEAUTY CARE PRACTICAL	L	T	P	C
Semester	III	Skill Enhancement Course - IV (Entrepreneurial Skill)	-	-	1	1
Prerequisites		Basic Knowledge about Makeup	Syllabus Version		2023 –2024	
Course Objectives:						
1. Produce a capable and skillful workforce as required by the prevailing market demands. 2. Equip the trainees with skills and knowledge to ensure adherence to safety measures in saloon. 3. Select, operate and handle equipment according to the professional standards						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Create various techniques used in beauty care					P5
CO2	Design traditional and modern style makeup using different equipments.					P5
CO3	Practice beauty techniques and procedures for different occasions.					P5
P1 – Imitation; P2 – Manipulation; P3 – Precision; P4 – Articulation; P5 – Naturalization.						
Practice the following, 1. Different types of haircuts, cutting techniques and blow drying of hair. 2. Traditional hair styling techniques- Rolls, Braids, interlocks, Twisting styles. 3. Henna designing, Tattoo designing and saree draping (4styles). 4. Basic Nail art techniques. 5. Facial -Skin analysis, cleaning and facial with different equipments, application of different types of packs and masks according to the skin types. 6. Different types of makeup - Daytime, Evening, Party and Bridal. 7. Pedicure and manicure. 8. Threading and waxing						
Text Books						
1	Complete Beautician Course by Renu Gupta					
2	Be your own Beautician by Parvesh Handa					
3	Advance makeup and hairstyle by Urvashi Dave					
Related Online Contents						
1	https://bit.ly/2DB2WQM					
2	https://youtu.be/sYoz3G2OH5g					
3	https://youtu.be/_o9cpvQPqBY					

Course code	23UTFSP02	TEXTILE WET PROCESSING PRACTICAL	L	T	P	C
Semester	III	Skill Enhancement Course - V	-		2	2
Prerequisites		Basic knowledge about textile wet processing		Syllabus Version		2023 –2024
Course Objectives:						
The main objectives of this course are to: 1. To gain a practical on-hand training on preparatory process. 2. To understand the technical importance of wet processing. 3. To plan various process requirements for dying.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Prepare the samples by pre-treatment process and calculate weight loss percentage.					P5
CO2	Formulate the recipe for the fabric sample dyeing					P5
CO3	Produce the sample by formulated recipe and calibrate shade percentage.					P5
P1– Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5 –Naturalization.						
Preparation of samples for Processing: ➤ Desizing ➤ Scouring ➤ Bleaching ➤ Mercerizing Dye the given fabric using suitable dye: ➤ Direct Dye ➤ Sulphur Dyes ➤ Vat Dye ➤ Disperse Dye ➤ Reactive Dyes ➤ Acid Dye Printing of Fabrics • Printing of cotton using block and screen printing (2 Samples each). • Printing of tie and dye and batik (2 samples each). • Printing on cotton fabric with natural colors.						
Text Book(s)						
1	AATCC Garment wet processing Technical manual (1994)					
2	Textile processing and properties, Preparation, Dying, Finishing and Performance, Tyrone L. Vigo, elsewhere publishing, Netherland					
3	Textile Wet processing, Manoj Dole, Manoj Dole Publications Co. India (2018)					
Related Online Contents[MOOC,SWAYAM, NPTEL,Websitesetc.]						
1	https://britannica.com/topic/textile/dying-and-printing					
2	https://www.sciencedirect.com/topics/engineering/dying-process					

FOURTH SEMESTER

Course code	23UTFCT04	TEXTILE FINISHING	L	T	P	C
Semester	IV	Core Course –VII	5	-	-	5
Prerequisites	Basic knowledge in garment production processes		Syllabus Version		2023 –2024	
Course Objectives:						
1. To impart knowledge and understanding of chemistry, mechanism and application process of various textile finishes.						
2. It aims to enhance the awareness of future trends in textile finishing.						
3. To impart the knowledge about finishing methods of fabric based on their function.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Distinguish the method and application of finishes on different textile substrates.					K2
CO2	Generalize the process sequence of mechanical finishes on textile materials.					K2
CO3	Interpret the functional finishes on textile materials					K3
CO4	Infer about the advanced finishes carried out on textiles					K3
CO5	Discover the special finishes on textile materials.					K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1						
Finishing						
Finishing - Introduction – Objects of finishing, Importance of finishing, Classification of finishes, Advantages of finishing.						
Unit:2						
Mechanical Finishing						
Mechanical Finishes- Beetling, Shearing, Calendaring, Tentering, Moirering, Embossing, Glazing, Napping, Chemical Weighting of Silk, Sizing, Sanforizing, Schreiner, Wrinkle free finish.						
Unit:3						
Functional Finishing						
Functional Finish - Resin finish, Water Proof finish, Water Repellent finish, Antimicrobial finish, Flame Retardant finish, Soil Release finish - Process and Recipe, Types and Method of Fusing, Welding and Adhesives, Molding.						
Unit:4						
Advanced Finishes						
Advanced Functional Finish - Stiff finish - Process and Recipe, Softening - Silicone finish, Denim finish, Stone Wash finish, Anti - Pilling finish, Anti Mildew finish.						
Unit:5						
Special finishes						
Special Finishes On Garments– Finishing of Woven/Knitted garments– Stoneless, Stone Wash effects– Mud wash, Ion wash, Chalk wash, Water resistant Breathable finish, Bio polishing, Leathery Finish, Protective Finishes– Deodorizing, Cool Finish and Thermo stat finishes.						
Text Book(s)						
1	Shenai and Saraf, Technology of Textile Finishing, Sevak publications, 1995.					
2	Nallangilli and Jayaprakasam, Textile Finishing, S.S.M Institute of Textile Technology, 2005.					
3	Prayag, Technology of Finishing, Shree J. Printers, Pune, 1996.					
Related websites						
1	https://nptl.ac.in/courses/116/102/116102054/					

Course code	23UTFCP04	WOMEN'S APPAREL PRACTICAL	L	T	P	C
Semester	IV	Core Course – VIII			5	5
Prerequisites		Basic knowledge about women's wear	Syllabus Version		2023–2024	

Course Objectives:

The main objectives of this course are to:

1. Design Garments for women
2. Impart Skills in pattern drafting
3. Construct garments by sewing

Expected Course Outcomes:

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

CO1	Design and generalize the measurements for the various women's garments.	P3
CO2	Prepare patterns and calculate material requirement for the designed women's wear.	P3
CO3	Construct the designed women's garment and calibrate the cost of the garment.	P5

P1– Imitation; **P2**–Manipulation; **P3**–Precision; **P4**–Articulation; **P5** –Naturalization.

Calculate the material required –Layout method and Direct measurements method

1. Saree Petticoat- Six Panel, Decorated bottom.
2. Skirts – Circular/umbrella/panel with style variations.
3. Blouse- front open, Fashioned neck, Waist band at front, with sleeve.
4. Salwar (or) Churidhar (or) Parallels (or) Bell Bottom
5. Kameez – with /without slit, with or without flare ,with /without opening ,with or without panels,with /without yoke.
6. Nightie –With yoke, front open , with sleeve , full length.
7. Ladies pant- waist band , zip attached ,tight fitting / parallel pants.
8. Short kurta / top – Decorative / surface design in tailored placket, with or without collar.

Text Book(s)

1	Scientific garment quality –K M Illege and Sons , Plot No. 43 , Somuvar Peth Pune 411011
2	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai, 1986
3	Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college, Bombay-32

Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]

1	https://www.patternsonline.com-default.aspx
2	https://shoeguide.com/
3	https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130

Course code	23UTFDE04 A	FASHION DESIGNING PRACTICAL	L	T	P	C
Semester	IV	Elective - 4A	-	-	3	3
Prerequisites	Knowledge in Fashion Sketching		Syllabus Version		2023 –2024	
Course Objectives:						
The main objectives of this course are to:						
1. Familiarize with the elements and principles of design						
2. Play with colours following the standard colour harmonies						
3. Create garment design for various seasons on fashion figures						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Demonstrate Prang colour chart, value and intensity chart				P3	
CO2	Calibrate various head theories and figures for a child, women and men				P3	
CO3	Sketch garment designs by using elements of design and also the applications of principles of design.				P4	
CO4	Develop colour harmonies in garment design and design garments for various seasons.				P5	
P1– Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5 –Naturalization.						
1.Prepare the following Charts						
• Prang color chart						
• Value chart						
• Intensity chart						
2.IllustrateHumanFigurefortheFollowingHeads						
• Child - 6head						
• Women–8head,10 headand12head						
• Man–10head						
3.IllustrateGarmentDesignsfortheElements of Design (3each)						
• Line						
• Texture						
• Shape						
4.IllustrateGarmentDesignsforthePrinciplesof Design						
• Balance(Formal and Informal)						
• Harmony						
• Emphasis						
• Proportion						
• Rhythm(by Repetition, Gradation and Line Movement)						
5.IllustratetheColor Harmony in Dress Design						
• Monochromatic						
• Analogous						
• Complimentary						
• Doublecomplementary						
• Split complementary						
• Triad						
• Neutral						

6.Create Garments for the Following Seasons	
• Summer • Winter • Autumn • Spring	
Text Book(s)	
1	Fashion Sketch Book , Bina Abbing, Fair Child Publications, New York Wardrobe,1988.
2	Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science,1997.
3	Art and Fashion in Clothing Selection , Mc Jimsey and Harriet, Iowa State University Press, Iowa,1973.
Related Online Contents[MOOC,SWAYAM, NPTEL, Websites etc.]	
1	https://www.idrawfashion.com/
2	https://www.fashionistasketch.com/drawing-faces-fashion-illustration/
3	https://in.pinterest.com/pin/458804280762797371/

Course code	23UTFDE04 B	COSTUMES AND TEXTILES OF INDIA	L	T	P	C
Semester	IV	Elective- 4B	3	-	-	3
Prerequisites		Basic knowledge in costumes of different states of India	Syllabus Version		2023 –2024	
Course Objectives:						
The main objectives of this course are to:						
1. Impart knowledge and understanding of the diverse and valuable traditional Indian textiles.						
2. Appreciate the various styles of traditional Indian costumes						
3. Value the beauty and intricacy of the Indian Jewelleries						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Discover the beginning and origin of costumes				K2	
CO2	Recognize the dyed and printed textiles of India				K1	
CO3	Compare and contrast the various costumes of India				K4	
CO4	Appraise the jewelries of India				K5	
CO5	Value the traditional embroideries of India				K3	
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1		Origin and Growth of Costume				
Beginning and growth of Costume - Painting, Cutting and Tattooing. Ancient costumes – Indus valley civilization, Vedic period, Maurya period, Mughal period. Costumes of India - pre and post independence era						
Unit:2		Dyed and Printed Textiles of India				
Study of dyed and printed textiles of India – Bhandhani, Patola, ikkat, kalamkari- in all the above types and techniques used. Study of woollen textiles of India – Dacca Muslin, Banarasi/Chanderi Brocades, Baluchar, Himrus and Amrus, Kashmir shawls, Pochampalli, silk sarees of Kancheepuram.						
Unit:3		Traditional Costumes of India				
Traditional Costume of different States of India- Tamil Nadu, Kerala, Andhra Pradesh, Karnataka, Assam, Orissa, West Bengal, Maharashtra, Rajasthan, Uttar Pradesh, Jammu and Kashmir, Gujarat.						
Unit:4		Indian Jewellery				
Indian Jewellery – Jewellries used in the period of Indus valley civilization, Mauryan period, the Pallava and Chola Period, Symbolic Jewellery of South India, Mughal period. Temple Jewellery of South India, Tribal jewellery						
Unit:5		Traditional Embroideries of India				
Traditional embroideries of India – Origin, Embroidery stitches used– embroidery of Kashmir, Phulkari of Punjab, Gujarat– Kutch and Kathiawar, embroidery of Rajasthan, Kasuti of Karnataka, Chikenkari work of Lucknow, Kantha of Bengal.						

Text Book(s)	
1	The Costumes and Textiles of India – Jamila Brij Bhushan, DBTaraporevala Sons and Co, Bombay, 1958.
2	Indian Costume–G.S.Ghurye, Popular Prakashan Pvt Ltd, India, 1967.
3	Indian Jewellery– M.L.Nigam, Lustre Press Pvt Ltd, India, 1999.
4	Traditional Embroideries of India–Shailaja D.Naik, APH Publishing, India, 1996.
Reference Books	
1	Costumes of India–Dorris Flyn, Oxford and IBH Publishing Co, Delhi, 1971.
2	Costumes of India and Pakistan–Das S.N, DBTaraporevala Sons and Co, Bombay, 1956.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://www.youtube.com/watch?v=7HXVXieq7pM
2	https://www.craftsvilla.com/blog/famous-indian-embroidery-styles
3	https://www.culturalindia.net/jewellery/types/meenakari.html

Course code	23UTFDE04 C	FASHION APPRECIATION	L	T	P	C
Semester	IV	Elective – 4C	3	-	-	3
Prerequisites	Basic knowledge in fashion concept and various fashion environment		Syllabus Version		2023 –2024	
Course Objectives:						
The main objectives of this course are to:						
1. To introduce various art forms to the students by classroom teaching, case studies, pictorial presentation and craft tools.						
2. To engage the students to work on types of fashion and art forms by making them to create miniature models						
Expected Course Outcomes:						
CO1	Remember the basics of Fashion Concepts					K1
CO2	Understand fashion styling, role of fashion and forecasting.					K2
CO3	Apply the concepts of styling as freelancing and photo shooting.					K3
CO4	Analyze the various cultural adoption and world art					K4
CO5	Create world art and writing based on fashion concept					K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1	Introduction To Fashion					
Introduction to fashion – Types of Fashion: Haute couture fashion – Ready-to-wear fashion - Mass market fashion - Fashion cycle.						
Unit:2	Fashion Styles					
Types of fashion styles: chic, bohemian, vintage, preppy, artsy, tomboy. Alternative clothing style: Punk Fashion, Gothic Fashion, hipster, steam punk, street grunge, heavy metal fashion.						
Unit:3	Art					
Fashion as Cultural Indicators, Cross Culture Studies, Role of fashion in human culture, Fashion Adoptions – sources of inspiration and their selection. World Art – Cubism, Pop art, German expression, Futurism, Dada						
Unit:4	Writing					
Art Writing, writing for blogs, mind mapping and key word selection, working as a creative team with freelancing stylist. Creating story, content preparation for art and styling, working on concept boards, setting trends, curating and narrating, fashion forecasting.						
Unit:5	Photoshoot					
Styling and basic grooming – model poses based on garment – final photoshoot and outcome.						
Text Book(s)						
1	Louvre: all the Paintings, Anja Grebe, Black Dog and Leventhal, New York, 2020.					
2	Printers of the Mughal Garden, Brigitte Singh, Bishwadeep Maitra, Mapin Publishing Pvt, Ltd, Gujarat, 2018.					
3	Think Like an Artist, Will Gompertz, Penguin Publishers, London, 2016					
4	Post Modernism – A Very Short Introduction, Christopher Butler, Oxford University Press, Uttar Pradesh, 2002					
5	Indian Art, Parthe Mitter, Oxford University Press, Uttar Pradesh, 2001.					

Related websites	
1	Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] 1 http://umk-javorova.blogspot.com/2013/07/fashionstyle.html#:~:text=Fashion%20refers%20to%20the%20aesthetics,%2C%20furniture%2C%20and%20interior%20decoration.andtext=that%20live%20in%20clothes%2C%20some,42%2C000%20to%20over%20100%2C000%20years. 2
2	https://www.frieze.com/article/11-statements-around-artwriting#:~:text=Art%20Writing%20addresses%20material%20literary,relations%20between%20people%2C%20as%20discursive.
3	https://www.format.com/magazine/resources/photography/fashion-photography-how-to-setup-a-shoot

Course code	23UTFST01	FASHION DESIGNING	L	T	P	C
Semester	IV	Skill Enhancement Course- VI	2	-	-	2
Prerequisites	Have basic knowledge in designing		Syllabus Version	2023 –2024		
Course Objectives:						
The main objectives of this course are to:						
1. Impart knowledge on design concepts in the field of fashion						
2. Familiarize with the fashion cycles, consumers and theories						
3. Design suitable garments for unusual figure types						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Distinguish fashion and differentiate elements and principles of design				K2	
CO2	Generalize the colour combinations with standard colour harmonies				K3	
CO3	Interpret the fashion evolution, consumer groups in fashion theories and forecasting.				K4	
CO4	Justify the different dress designs for unusual figure types				K4	
CO5	Describe fashion terminologies and fashion profiles				K2	
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1	Design Elements and Principles					
Design- definition and types – structural and decorative design, requirements of a good structural and decorative design in dress						
Elements of design and its application in dress – line, shape or form, colour and texture. Principles of design and its application in dress – balance, rhythm, emphasis, harmony and proportion.						
Unit:2	Standard Colour Harmonies					
Colour theories; Prang color chart Dimensions of color- hue, value, and intensity.						
Standard colour harmonies – Related, Contrasting and Neutral color harmony; Application of Colour in principles of design- application of the same in dress design.						
Unit:3	Fashion Evolution and Fashion Forecasting					
Fashion evolution – Fashion cycles, Length of cycles , consumer groups in fashion cycles – fashion leaders , fashion innovators, fashion motivation , fashion victim, Fashion followers. Adoption of Fashion theories – Trickle down, trickle up and trickle across. Fashion forecasting – Need for forecasting						
Unit:4	Designing Dresses for Unusual Figures					
Designing dresses for unusual figures – becoming and unbecoming – for the following figure types. Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead						
Unit:5	Fashion Terminologies and Fashion Profiles					
Definition and meaning of the fashion terms – fashion, style, line and collection, Mannequin and dress forms; fashion show; high fashion; Haute couture, couture and couturier; knock-off; Avant Garde; Pret – a –porter. Role/qualities of a Fashion Designer, Fashion Stylist, Fashion Journalist, Fashion Merchandiser, Fashion Director.						

Text Book(s)	
1	Fashion Sketch Book – Bina Abling, Fair Child Publications, New York Wardrobe,1988.
2	Art and Fashion in Clothing Selection – Mc Jimsey and Harriet, Iowa State University Press,Jowa,1973.
3	Fashion from Concept To Consumer – Frings Gini Stephens, Pearson Education, US, 1998.
4	Inside the Fashion Business – Kitty G. Dickerson, Pearson Education,US, 2007.
RelatedOnlineContents[MOOC,SWAYAM, NPTEL,Websitesetc.]	
1	https://www.apparesearch.com/terms/index.html
2	https://www.instyle.com/fashion
3	https://prezi.com/1tlwgnhviqs-/fashion-elements-and-principles-of-design/

FIFTH SEMESTER

Course code	23UTFCT05	APPAREL COSTING AND MERCHANDISING	L	T	P	C
Semester	V	Core Course -IX	5		-	4
Prerequisites	Basic knowledge in garment production processes		Syllabus Version		2023- 2024	

Course Objectives:

The main objectives of this course are to:

1. Impart learning about principles of costing and budgeting
2. Impart learning about costing procedure for various garment styles
3. Impart learning about costing procedure for export and domestic products
4. Instruct about roles and responsibilities of merchandiser
5. Describe about planning and programming in execution of an order

Expected Course Outcomes:

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

CO1	Infer about the elements of cost in pricing apparels	K2
CO2	Generalize the process involved in budgeting.	K2
CO3	Estimate the fabric cost in apparel production	K4
CO4	Summarize order sheet and maintain record in garment production unit.	K2
CO5	Prioritize the promotional aids for retail and whole sale apparel marketing	K4

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

Unit:1 Elements of Cost

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 labour-overheads—prime cost-work cost-cost of production – total cost. INCO terms and its relationship with costing

Unit:2 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 Fabric Cost Estimation

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

Unit:4 Order Sheet and Documentation

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 – Buyer’s code of conducts.

Unit:5 Product Promotion

Advertising- scope, importance, types, merits and demerits; sales promotion, personal selling. Retail management. Export associations – Apparel Export Promotion Council – Journals and magazines related to apparel and textiles –Trade shows and Fairs – Participation in trade shows – Advantages of trade shows and fairs - Apparel and Textile Trade shows and fairs in India.

TEXT BOOKS	
1	Apparel Costing, M. Krishnakumar, Abhishek Publications 2015
2	Apparel Costing, Andrea Kennedy, Andrea Reyes, Francesco Venezia, Bloomsbury Visual Arts, 2020
3	Apparel Costing, A functional Approach, Krishnakumar, M, Abishek Publications, Chandigarh, 2012
Related websites	
1	https://www.toppr.com/guides/fundamentals-of-accounting/fundamentals-of-cost-accounting/elements-of-cost/
2	https://corporatefinanceinstitute.com/resources/knowledge/finance/budgeting/
3	https://efinancemanagement.com/budgeting
4	https://theinvestorsbook.com/pricing-methods.html
5	https://www.yourarticlelibrary.com/marketing/pricing/pricing-objectives-top-5-objectives-of-pricing-explained/48639

Course code	23UTFCT06	KNITTING AND NON-WOVEN	L	T	P	C
Semester	V	Core Course- X	5		-	4
Prerequisites	Basic knowledge about fabric structure		Syllabus Version		2023 – 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Familiarize with the basics of knitting process						
2. Impart knowledge on the warp and weft knitting techniques						
3. To know the recent trends and technologies adopted in the industry						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Outline basics of knitting process and knitting machine process functions.					K2
CO2	Summarize the warp and weft knitting process and its production techniques.					K3
CO3	Explain seamless knitting and care of knitted fabric maintenance.					K2
CO4	Generalize non woven fabric production process and its uses					K2
CO5	Infer about technical textiles applications and its types.					K2
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1	Knitting Overview					
Knitting – Definition, classification and history, characteristics of knitted goods. General terms and principles of knitting technology, machine knitting, parts of machine, knitted loop structure, stitch density						
Unit:2	Principles of Weft and Warp Knitting Technology					
Weft knitting – classification - circular rib knitting machine, purl, interlock, jacquard - single jersey machine - basic knitting elements - types and functions – knitting cycle, CAM – system - 3-way technique to develop design - knit, tuck, miss - effect of stitches on fabric properties.						
Warp knitting - lapping variations-tricot, raschel, simplex and Milanese - kitten raschel - single bar, 2 bar, multi bar machines. types of threading, production of nets, curtains, heavy fabrics,elasticized fabrics.						
Unit:3	Seamless Knitting and Knitting Care					
Seamless Knitting – Applications, advantages, and limitations. Care and maintenance of knitted material - washing, drying, ironing, storing. Common defects that occur in knitted fabric production.						
Unit:4	Non-woven					
Non-woven- Introduction, Definition, Classification, scope and applications of Non-woven- Fibers used- web preparation, opening, cleaning machine, production of parallel laid web, cross laid, and random laid web. Bonding methods- mechanical, thermal, chemical.						
Unit:5	Technical Textiles					
Introduction, Definition, scope and importance and uses. Applications of agro-tech, build-tech, cloth-tech, home-tech, indu-tech, mechanical-tech, sports-tech, pack-tech, mobile-tech, protect-tech, geo-tech, medical-tech.						
Text Book(s)						
1	Knitting Manufacture Technology - Anbumani, New Age International, Chennai ,2006					
2	Knitting and Apparel Technology, S.S.M.I.T Co-operative Society. 2005					
3	Knitting Technology, David J. Spencer, Woodhead Publishing Ltd., Cambridge England, 2002					
4	Knitting Technology, D B Ajgaonker, Universal Publishing Corporation,1998					
5	Geotextiles- N.W.M. John, Blackir, London.					
6	Non-woven, Arul Dhakiya, M.G. Kamath, Raghavendra, R. Hedge and Monica Kannadnguli					

Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]	
1	https://fashion2apparel.blogspot.com/2017/02/seamless-garments-advantages.html
2	https://www.indiaretailing.com/2018/06/12/fashion/indian-knitwear-market-present-and-the-future-trends/
3	https://www.fibre2fashion.com/industry-article/64/overview-of-tirupur-knitwear-industry
4	https://www.fibre2fashion.com/industry-article/7047/seamless-garment-technology
5	https://textilelearner.blogspot.com/2013/01/faultsdefects-in-knitted-fabrics.html

Course code	23UTFCP05	SURFACE EMBELLISHMENT AND FASHION ACCESSORIES PRACTICAL	L	T	P	C
Semester	V	Core Course - XI	2	-	3	4
Prerequisites		Knowledge on creation of embroidery and accessories	Syllabus Version		2023 – 2024	
Course Objectives:						
1. To impart knowledge to the students about the hand and machine embroidery.						
2. To learn the various types of stitches.						
3. To provide opportunity for skill development in designing accessories.						
4. To impart knowledge on fashion accessories and creativity.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Produce the hand and machine embroidery samples					P4
CO2	Prepare decorative samples using beads or mirrors or sequins or etc.,					P5
CO3	Develop complex fashion accessories by learning to design different accessories manually					P5
P1–Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5–Naturalization.						
A. Prepare samples for the following						
1. Hand embroidery – 15 stitches - 8samples						
2. Machine embroidery -5stitches -2samples.						
3. Applique (machine / hand)- 2 types						
4. Smocking – 4 types						
5. Bead Work -1 sample						
6. Sequins work and Zardosi work -1 sample						
7. Mirror work –Shapes (Round, square, diamond) - 1 samples						
8. Fixing the stones-1 sample.						
B. Traditional surface ornamentation practices with two to four variations in the following,						
1. Kantha						
2. Chikan						
3. Kasuti						
4. Zardosi						
5. Kutch work						
6. Mirror work						
7. Aari work						
8. Phulkari work .						
C. In embroidery practical add						
D. Hand bag - Any 2types						
E. Hat - Any 2 types						
F. Bow - Decorative bow and formal bow						
G. Purse and pouches - any 2 types						
Text Book(s)						
1	Shailaja D. Naik, Traditional embroideries of India, APH Publishing ,1996.					
2	Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college32					
3	Libby Moore Thread folk, a Modern Maker’s book of Embroidery, Project and ArtistCollaboration, Paige Tata and Co.					
Related Online Contents[MOOC,SWAYAM,NPTEL,Websitesetc.]						
1	https://sueguide.csom/smocking/					
2	https://www.youtube.com/watch?v=nJz9c8gEvFg					

Course code	23UTFCP06	MEN'S APPAREL PRACTICAL	L	T	P	C
Semester	V	Core Course – XII	2	-	3	4
Prerequisites	Basic Knowledge about Men's apparel designing			Syllabus Version	2023 – 2024	
Course Objectives:						
1. To impart the practical knowledge in pattern drafting and garment construction skill in men's wear for the Students.						
2. To develop creative skills in designing and constructing men's wear for different age group						
3. List the measurements required and materials suitable.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Design and generalize the measurements for the various men's garments.					P3
CO2	Prepare patterns and calculate material requirement for the designed men's wear.					P3
CO3	Construct the designed men's garment and calibrate the cost of the garment.					P5
P1–Imitation; P2 –Manipulation;P3–Precision; P4–Articulation;P5–Naturalization.						
1. S. B. Vest – with/ without collar, button attached, sleeveless						
2. Slack shirt – full open, shirt collar, patch pocket,						
3. Nehru kurtha –stand collar, side pocket, half open						
4. Pyjama- Elastic /Tape attached waist.						
5. Pleated trousers – pleats in front, Darts at back, side pocket, fly with button/zip.						
6. T-Shirt – open collar, zip attached						
7. Bermudas –patch pocket						
Text Book(s)						
1	Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986)					
2	Zarapker System of Cutting- Zarapker. K. R, Navneet Publications Ltd.					
Related Online Contents[MOOC,SWAYAM, NPTEL, Websites etc.]						
1	https://shoeguide.com/					
2	https://www.patternsonline.com-default.aspx					

Course code	23UTFDE05 A	HOME TEXTILE PRACTICAL	L	T	P	C
Semester	V	Elective- 5A			4	3
Prerequisites	Knowledge about choice of fabrics for Home Textiles			Syllabus Version		2023-2024
Course Objectives:						
The main objectives of this course are to:						
1. Impart knowledge on the various home textile products						
2. Gain insights on the bed linens, kitchen linens, bathroom linens						
3. Acquire better understanding on the choice of fabrics for the home textile products						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Classify the home textile products and list out the fabric selection factors.					K2
CO2	Categorize the types of floor and wall coverings in home textiles.					K4
CO3	Distinguish doors and window treatments in home furnishing					K4
CO4	Generalize the furnishing used in living room.					K2
C05	Discover the furnishing types of kitchen and dining.					K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
LIST OF EXPERIMENTS						
• Pillow cover -2 types						
• Cushion -2 types						
• Cloth organizer for wardrobe-2 types						
• Apron -2 types						
• Mitten -2types						
• Matt (door or kitchen)-3 types						
• Door curtain – 2 types						
• Prepare a baby bed with pillow and bolster (or) Prepare a maternity pillow						
• Prepare a window curtain with pelmets -2 types						
• Prepare a wall hanging -2 types						
Text Book(s)						
1	Home Comforts-The Arts and Science of Keeping Home, Cheryl Mendelson, Scriber, New York, 2005					
2	Cushions and Pillows- Professional Skills – Made Easy, Hamlyn Octopus, Octopus Publishing Group, New York, 2001					
3	The Ultimate Sewing Book 200 Sewing Ideas For You and Your Home, Magi Mc McCormick Gordon, Collins and Brown, London, 2002					
4	Design and make curtains, Heather Luke, New Holland publishers, London,1999					

Course code	23UTFDE05 B	ORGANISATION OF GARMENT UNIT	L	T	P	C
Semester	V	Elective- 5B	4	-	-	3
Prerequisites		Knowledge on garment Industry	Syllabus Version		2023 – 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Enable student to become a successful entrepreneur/manager in the future						
2. Impart knowledge on the organization of the various departments of a garment unit						
3. Gain a better understanding of a garment unit with SWOC analysis						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Interpret the meaning of entrepreneur and management					K2
CO2	Understand the organizational structure of a garment unit					K2
CO3	Plan factory design and layout to suit the production needs					K4
CO4	Prepare cost sheet for a finished product					K3
C05	Set up a garment unit by performing SWOC analysis					K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1 Entrepreneur and Management						
Entrepreneur-Meaning, definition and types, need for Entrepreneurs, qualities, and role of Entrepreneur.						
Management–Definition. Management as a process–Planning, organizing, Directing, Controlling and Co Ordination. Difference between Entrepreneur and Manager.						
Unit:2 Organizational Structure of a Garment Unit						
Organizational structure of a garment unit, Design department, Finance department, purchasing department, Production department, organizing different sections– hierarchy Personnel involved in all the departments, nature of the job. Role of HR in apparel industry.						
Unit:3 Factory Design and Layout 15hours						
Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings (single and Multi-Storey) – advantages and limitation. Factory layout – Process,ProductandcombinedlayoutDesignrequirement–requirementsrelatingtohealth,safetyand Welfare. Balancing – Steps to balance the line - Initial balance - Balance control - Efficiency –Cycle checks - Balancing tools.						
Unit:4 Principles of Costing 15hours						
Principles of costing-requirement of good costing system. Cost estimation of yarn and fabric. Cost estimation for dyeing, printing, embroidery, cutting, stitching, checking, packing, final Inspection, shipping and insurance.						
Unit:5 Garment Export Unit						
Performance of Indian Garment Export and Institutions supporting Entrepreneurs, SWOC Analysis						
Setting up of garment unit for export market, Export Document, Export finance- Payment method, Export shipping.						
Institutions supporting entrepreneurs-DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, Commercial banks – SBI.						

Text Book(s)	
1	Introduction to Clothing Production Management, A J Chester 2nd Edition, Wrenbury Associates Ltd, 1998.
2	The technology of clothing manufacture, Harold Carr and Barbara Latham, Blackwell Science, 1994.
3	Apparel Costing, A functional Approach- Krishnakumar. M, Abishek Publications, Chandigarh, 2011.
4	Principles of Management, Dinakar Pagare, Sultan Chand and Sons, Delhi, 2018.
5	Entrepreneurship Development in India, Dr. C.B Gupta, Dr N.P. Srinivasan, Sultan Chand and Sons Delhi, 1997.
6	Industrial Engineering in Apparel Production, V. Ramesh Babu, Woodhead Publishing, India, 2012.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://lonelyentrepreneur.com/types-of-entrepreneurs/
2	https://textilecourse.blogspot.com/2019/02/plant-layout-textile-garment-industry.html
3	https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory
4	https://apparelcosting.blogspot.com/2017/05/apparel-costing-principles.html
5	https://www.onlineclothingstudy.com/2019/04/how-to-start-garment-business.html

Course code	23UTFDE05 C	COMPUTER APPLICATION IN GARMENT DESIGNING	L	T	P	C
Semester	V	Elective-5C	4	-	-	3
Prerequisites		Knowledge on computer fundamentals	Syllabus Version		2023 – 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Impart knowledge on the significant role played by the computers in the garment industry						
2. Create an awareness on the latest technologies available in the various sectors of the garment industry						
3. Teach the advantages of using computer technology to improve the production qualitatively and quantitatively						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Articulate the specifications and functions of a computer and its peripherals					K3
CO2	Appraise the inevitable role played by computers in various sections of a textile /garment industry					K5
CO3	Understand the application of CAD and CAM in the areas of textile and garment designing					K2
CO4	Discover the use of computers in the field of body measurements, pattern Making and grading					K3
CO5	Weigh the advantages of computer technology in the process sequences and there by increase production					K5
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1	Computers and its Peripherals					
Classification of computers, computer generations, computer specification, organization of computer sections. Types of storage devices (primary, secondary and tertiary),input devices, output devices.						
Unit:2	Computers in Fashion Industry					
Role of computers in fashion industry – Information flow – CAD, CAM, CIM, CAA, PDC –Definition and functions. Computers in production planning and production scheduling computerized colour matching system.						
Unit:3	Computers in Creating Fabric and Garment Designs					
CAD in creating designs–Advantages. Computerized weaving, knitting and printing, creating Computerized embroidery machines, Garment designing with CAD–2Dand3Dforms.						
Unit:4	Body Measurements, Pattern Making and Grading					
3D Body scanning systems, Made to measure systems, CAD in patternmaking and grading– System description–information flow–process involved in pattern making, process involved in pattern grading						
Unit:5	Computers in the Garment Manufacturing					
Computer application in fabric defect checking, laying/spreading, cutting marker planning, Labeling –Parts and functions. Computerized sewing machines.						

Text Book(s)	
1	Computers in the Garment Industry–Dr R Sheela John and Dr.S. Amsamani, Shanga Verlag, Coimbatore,2013
2	Fashion: From Concept to Consumer, 4 th Edition–Gini Stephens Frings, Prentice Hall, Pearson,2007
Reference Books	
1	Computer Fundamentals, P K Sinha, BPB Publications, Delhi,1992
2	The Technology of Clothing Manufacture, Harold Carr and Barbara Latham, Blackwell Ltd,1994
3	Computer Technology for Textiles and Apparel, Jinlian Hu, Elsevier,2011
4	Automation in Garment Manufacturing, Rajkishore Nayak and Rajiv Padhye, Woodhead Publishing,2017
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	https://inifdahmedabad.com/blog/importance-of-cad-in-fashion-industry/
2	https://clothingindustry.blogspot.com/2018/02/application-cad-weaving.html
3	http://textilescommittee.nic.in/writereaddata/files/publication/gar4.pdf
4	https://study.com/academy/lesson/how-is-cad-used-in-textiles.html
5	https://clothingindustry.blogspot.com/2018/02/importance-cad-textile-designing.html
6	https://textilelearner.blogspot.com/2012/03/computer-application-areas-in-textile.html
7	https://link.springer.com/chapter/10.1007/978-3-642-58214-1_47

Course Code	23UTFDE06 A	ENTREPRENEURSHIP DEVELOPMENT	L	T	P	C
Semester	V	Elective – 6A	4	-	-	3
Prerequisites	Basic knowledge about apparel business Opportunities			Syllabus Version	2023 - 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Familiar the students with challenges of starting new ventures						
2. Enable them to investigate, understand and internalize the process of setting up a newbusiness.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Outline the concept of entrepreneurship and traits of entrepreneur					K2
CO2	Identify a project and formulate a project report.					K4
CO3	Appraise the formalities of SSI’s Registration for an enterprise					K4
CO4	Identify the Sources of Finance and Institutional Assistance for small scale industries.					K4
C05	Infer about entrepreneur, Incubation centers and start up in India					K4
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; Entrepreneur; Manager Vs. Entrepreneur.						
Unit:2	Starting the venture					
Project Identification – Project formulation – Project design - preparing project report - Project Planning and Scheduling using Networking Techniques of PERT / CPM; Methods of ProjectAppraisal.						
Unit:3	SSI and Registration					
Small Enterprises and Enterprise Launching procedures and Formalities Role of SSI in Economic Development of India; SSI; Registration; NOC from Pollution Board; project report presentationguidelines						
Unit:4	Sources of Finance and Institutional Assistance					
Role of Support Institutions and Management of Small Business: Director of Industries; DIC; SIDO; SIDBI; Small Industries Development Corporation (SIDC); SISI; NSIC; NISIET,NIESBUD; TANSIDCO; TIIC; State Financial Corporation; KVIC						
Unit:5	Financial incentives for SSI					
Financial incentives and subsidies for SSI’s, and Tax concessions; – seed capital assistance –Role of entrepreneur in export promotion and import substitution – Social Entrepreneur, Incubationcentre, Startup India						

Text Book(s)	
1	Entrepreneurial Development, Dr. C.B. Gupta, Sultan Chand and Sons, New Delhi, 2009
2	Entrepreneurial Development, Dr. S. S Khanka, Sultan Chand and Sons, New Delhi, 2009.
3	Entrepreneurship Development and Small Business Enterprises, Charantimath, Poornima, Pearson Education, New Delhi, 2006
4	Entrepreneurship New Venture Creation, David H. Holt, Prentice Hall of India Private Limited, New Delhi, 2005
Related Websites	
1	https://www.researchgate.net/publication/259843889
2	https://ncert.nic.in/textbook/pdf/kebs109.pdf

Course code	23UTFDE06 B	FASHION PHOTOGRAPHY	L	T	P	C
Semester	V	Elective- 6B	4	-	-	3
Prerequisites		Basic Knowledge about Fashion Photography	Syllabus Version		2023-2024	
Course Objectives:						
The main objectives of this course are to:						
1. Understand the concepts of photography and editing process.						
2. Give ideas on developing a photo and enable photography techniques in various fields.						
3. Enable students to know about image editing with special effects.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Remember general principles of photography					K1
CO2	Understand the lighting techniques for indoor or outdoor photography					K2
CO3	Apply the techniques in the field of modeling, magazine, fashion shows etc..					K3
CO4	Evaluate the right image selection for the purpose of photography					K4
CO5	Create images with the help of computer applications					K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1		Photography				
Photography – Principle – Indoor photography – Needs and Methods – Lighting Techniques – Methods and Equipments.						
Unit:2		Techniques				
Photography Techniques and Equipments for different fields – Modeling – Newspaper – Magazines – occasion – Fashion Shows						
Unit:3		Camera and its Application				
Camera definition – Parts of camera – classification and types of camera – Applications – Disadvantages.						
Unit:4		Digital Camera				
Photography using Digital cameras – Video photography - image mixing – Applications of computer in Photography – Printing Techniques						
Unit:5		Outdoor Photography				
Outdoor photography – needs – Lighting Techniques – Methods and Equipments – Comparison of outdoor photography with Indoor Photography						
Text Book(s)						
1	John Hedge —Photography Course, John Hedge C – 1992					
2	Photo Journalism – By the editors of time- life books Newyork					
3	The colour book of Photography – L Lorelle, London, Focal press, 1956					
4	Michael Langford; Basic Photography, Focal Press, UK, 2000					

Course code	23UTFDE06 C	ECO TEXTILES	L	T	P	C
Semester	V	Elective - 6C	4	-	-	3
Prerequisites		Gain knowledge on eco-friendly textiles	Syllabus Version		2023 - 2024	
Course Objectives:						
The main objectives of this course are to:						
1. To facilitate the students to understand the importance of Eco Textiles						
2. To investigate techniques of eco textile fibers and yarn with its manufacturing Process.						
3. To Learn the Properties and behavior of natural finishes						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Recognize the structure of eco system					K1
CO2	Explain the needs of eco friendly textiles					K2
CO3	Recognize the use of Eco friendly dyes					K1
CO4	Analyze the application of natural finish on textiles					K4
CO5	Outline the quality parameters for eco textiles					K2
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1 Eco Textiles						
Introduction and needs for Eco textiles and its importance. Ecology – Production ecology, Human Ecology and Disposable ecology. Structure and stability of the Eco system						
Unit:2 Eco Friendly Textiles						
Over view, Need for Eco friendly textiles, Textile waste and Environment concern, process adopted for eco friendliness. Eco standard for textiles – Eco labeling, Eco mark.						
Unit:3 Eco friendly textile dyes						
Waterless dyeing – Plasma treatment, Electro chemical, Super critical fluid dyeing methods, Digital printing, ink jet printing, 3D printing. Recent Trends in Dyeing and Printing						
Unit:4 Natural Finishes						
Need for natural finishes, Traditional plants and herbs used in natural finishing, Various plant components, extraction methods and applications. Recent natural finishes on textiles for various applications						
Unit:5 Quality Control						
Importance, Pre production inspection, Inspection during production, Final inspection, AQL, Total quality management, 5S in Garment industry						
Text Book(s)						
1	Textile Science – E P G Gohal and L D Vilensky, 2 nd Edition C. B Publications, New Delhi.					
2	Principles of Weaving – W D Klien, Textile Institute, Manchester					
3	Mechanism of Weaving – N N Banner, J. Vol. I and II Textile Institute, Manchester					
4	Eco friendly textiles, Challenges to the textile industry					

Course code	23UTFSI01	INTERNSHIP- PROJECT VIVA-VOCE	L	T	P	C
Semester	V	Internship Training and Viva-Voce	-	-	-	2
Prerequisites	Gain Practical insights of the industry / company		Syllabus Version		2023-2024	

Course Objectives:

The main objectives of this course are to:

1. Expose the students to the work environment
2. Familiarize and adapt to the workplace
3. Understand the methods, techniques and practices followed in the place of training

Expected Course Outcomes:

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

CO1	Generalize working structure of the industry/ company	P3
CO2	Analyze the methods adopted in the training place	P4
CO3	Recognize the challenges in the training place	P2
CO4	Discover the nuances of the workplace and appreciate it	P5

P1– Imitation;**P2**–Manipulation;**P3**–Precision;**P4**–Articulation;**P5** –Naturalization.

NoCIA,Report:80marksandViva: 20marks, Total : 100 Marks

Details of the Training

The student should undergo **15 Days Internship training** in a Textile Processing Unit/ Designer House / Buying House/ Garment Unit / Retail house after IV semester theory exam / before the start of Fifth Semester (Total Marks -100)

Purpose of the Internship Training

The training bridges the gap between the theoretical knowledge gained in the college and the practical application of the same in the industry / company / stores

The student will have a better exposure about the workplace and its nuances

Process to be Followed

Students can identify their area of interest. Industry / companies have to be identified and a profile of the company has to be analyzed at least a month earlier. Contacts can be established by the guide allotted to the student. Prior permission has to be obtained from the place of training.

After confirmation, the student will undergo training for a period of 15 working days.

Instructions to the Students

The students should abide by the rules and regulations of the concern and get the maximum benefit from the training. The students should maintain a daily logbook where the student should record his details of the training.

A copy of the record has to be sent to the supervisor allotted to the student. The logbook must be signed (with seal) by the staff of the company. Based on the study done, the student will submit a report to the guide within a week's time along with the logbook. In case of any problems, the student should reach out to the supervisor immediately

Instructions to the Supervisor

The supervisor should establish contacts with the place of training. A routine follow up has to be done with the student once in two or three days. Problems, if any faced by the student should be sorted out immediately.

Training Report and Presentation

Training Report (30 – 50 pages) should be prepared by the student and submitted in a month's time. At the end of the semester student should present the report with a power point presentation

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1	https://www.wikihow.com/Write-a-Report-After-an-Internship
2	http://mfe-iseah-kef.blogspot.com/2013/11/internship-daily-journal.html
3	https://www.academia.edu/25257761/Student_Internship_Logbook
4	https://www.indeed.com/career-advice/career-development/how-to-write-an-internship-report
5	https://valenciacollege.edu/students/internship/documents/ActivityLog.pdf
6	https://www.template.net/business/log/internship-time-log/

SIXTH SEMESTER

Course Code	23UTFCT07	TEXTILE TESTING AND QUALITY CONTROL	L	T	P	C
Semester	VI	Core Course – XIII	6	-	-	4
Prerequisites	Basic knowledge in textile fibers, yarns and fabrics		Syllabus Version	2023-2024		
Course Objectives:						
The main objectives of this course are to:						
1. Instruct about various test for yarns, fabrics and garments						
2. Describe about various levels of inspection and its procedure in apparel production						
3. Describe about various norms and standards followed in testing and inspection						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Explain the testing procedure for various yarn parameters					K2
CO2	List out the specifications for various woven and knitted fabrics					K2
CO3	Differentiate the various systems used for fabric inspection					K4
CO4	List out the possible defects and its causes in apparel production					K2
CO5	Differentiate the categories of defects in garment and the various standards followed in apparel testing					K4
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1		Yarn Testing				
Importance of Quality. Quality terminologies. Testing: Objectives of Testing - atmospheric conditions for testing lab. Identification of textile fibers. Yarn numbering systems – Determination of yarn count. Yarn strength testing and CSP. Testing of yarn evenness, yarn twist and Hairiness						
Measurement						
Unit:2		Fabric Testing				
Knitted fabric specifications – Testing of Dimensional stability, Spirality and Bowing. Testing of colour fastness to washing, rubbing, perspiration and light - Grey scales and ratings. Brief studyabout testing of woven fabric.						
Unit:3		Raw material Inspection				
Inspection: Definition - Types of Inspection. Raw materials inspection: fabric inspection systems and Testing of Sewing thread, zippers, Buttons.						
Unit:4		In process inspection				
In process inspection and its significance in apparel quality. Defects in Sewing, Ironing and Packing. Testing of Seam strength and seam slippage						
Unit:5		Final Inspection and Standards				
Final inspection procedures. Categories of defects. Package quality testing – care labels. Brief studyabout Testing Standards. Brief study about Oeko-Tex Standards.						
Text Book(s)						
1	Physical Testing of Textiles,1st Edition, B P Saville, Woodhead Publishing, 1999					
2	Managing Quality in Apparel Industries, Pradeep V Metha and Satish K. Bhardwaj, NIFT, 1998					
3	Stamper, Evaluating apparel quality, Sue Humphries Sharp, Linda Donnell and Anitha A Fairchild Books, 1991					
4	Textile Testing, Arindam Basu, South India Textile Research Association, 2006					

Related websites	
1	http://textilemerchandising.com/quality-assurance-and-quality-control/
2	https://insight-quality.com/garment-quality-control-procedures/
3	https://garmentsmerchandising.com/acceptable-quality-level-apparel-industry/
4	http://texhour.com/aql-and-type-of-defects

Course code	23UTFCP07	CAD IN GARMENT DESIGNING PRACTICAL	L	T	P	C
Semester	VI	Core Course – XIV	2	-	4	4
Prerequisites		Knowledge and skills in pattern development using CAD	Syllabus Version		2023 – 2024	
Course Objectives:						
The main objectives of this course are to:						
1. Acquire skills in developing patterns through computer software.						
2. To understand the basics of CAD software						
3. Drafting, Grading and Marker planning of garment patterns using new advance software.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Draft the pattern for various kid’s, women’s and men’s wear				P3	
CO2	Grade the pattern blocks into various sizes.				P4	
CO3	Create marker planning for the pattern for cutting with higher efficiency				P5	
P1– Imitation;P2–Manipulation;P3–Precision;P4–Articulation;P5 –Naturalization.						
Unit: 1		Children’s wear				
Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis forthe following garments						
1. Yoke frock						
2. Baba suit						
3. Summer frock						
4. Skirt and tops						
Unit: 2		Women’s wear				
Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis forthe following garments						
5. Salwar						
6. Kameez						
7. Tops						
8. Nighty						
Unit: 3		Men’s wear				
Draft and grade patterns for the following garments. Create marker plans and conduct fit analysis forthe following garments						
9. Full sleeve shirt						
10. T-Shirt						
11. Bermudas Pleated trouser						

Contemporary Issues	
Expert lectures ,online seminars –webinars	
Text Books	
1	Pattern Cutting For Clothing Using Cad: How To Use Lectra Modaris Pattern CuttingSoftware - Stott M, Woodhead Publishing Ltd, 2012
2	Pattern Cutting And Making Up Revised Edition - Shoben M M , CBS Publishers andDistributors, 2000
3	Computer Aided Design and Manufacturing (Test CAD Programs Inside), Sadhu Singh,Khanna Publications, 1998.
Related Online Content [MOOC, SWAYAM, NPTEL, Websitesetc.]	
1	https://medcraveonline.com/JTEFT/variousoapproaches-in-pattern-making-for-garment-sector.html
2	https://www.youtube.com/watch?v=jTWtQNTJt_A
3	https://www.youtube.com/watch?v=iX7O4X7O4fNQijA

Course code	23UTFCP08	FASHION PORTFOLIO PRESENTATION VIVAVOCE	L	T	P	C
Semester	VI	Core Course – XV			6	4
Prerequisites	Knowledge in creating various garments		Syllabus Version		2023-2024	

Course Objectives:

The main objectives of this course are to:

1. To design and execute an organized collection of creative works
2. To make original works of art that demonstrates effective use of design principles, appropriate crafts man ship and technique.
3. Design collections by fulfilling the objectives of the client and user requirements.

Expected Course Outcomes:

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

CO1	Select a theme for different garment categories.	P5
CO2	Create different portfolio boards for selected theme.	P4
CO3	Construct the garments for all deigned categories.	P5

P1– Imitation;**P2**–Manipulation;**P3**–Precision;**P4**–Articulation;**P5** –Naturalization.

Portfolio Presentation and Design Collection

Part A

Portfolio Presentation - with Customer profile, Inspiration board, Mood Board, Colour board, Flat Sketch board, Illustration board, Swatch board, Trim board, Accessory board- for the following collection

- Fashion Show- with a theme – one ramp set
- Winter collection - 3garments
- Summer Collection -3 garments

Note

1. Customer profile: capture photograph of your customer.
2. Inspiration board: Image collection from books and magazines by scanning, Photography and drawing, use of objects for mood creation
3. Mood board: develop a theme based on group discussion, mind mapping, brainstorming.
4. Colour board: spotting theme board, mood board and inspiration board arrive the colorboard.
5. Flat sketch board: Develop front, side and back views

Part B

Construct the garments for all the above categories

Contemporary Issues

Expert lectures, online seminars – webinars

Text Books

1	Portfolio Presentation for Fashion Designers, Linda Tain, Fairchild Publishers (1998)
2	Fashion Design Drawing and Presentation, Patrick John Ireland, B T Batsford Ltd, 2006
3	Creative Fashion Presentation, Polly Guerin, Fairchild Publishers, 1987
3	New Encyclopedia of Fashion Details, Patrick John Ireland, Publisher: Pavilion Books, 2008
4	Check and Stripe: A Design-Source Book 2, Kyoto Shoin Company Ltd. 1992

Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]

1	https://issuu.com/theodoracucu/docs/portfolio_internship_ba
2	https://successfulfashiondesigner.com/fashion-portfolio/fashion-portfolio-checklist/

Course code	23UTFDE07 A	APPAREL PRODUCTION MANAGEMENT	L	T	P	C
Semester	VI	Elective- 7A	5	-	-	3
Prerequisites	Basic Knowledge in Garment Production Processes			Syllabus Version		2023-2024
Course Objectives:						
The main objectives of this course are to:						
1. The Students will be able to familiarize with the function of the garment industry, its various process and technical parameters in garment production.						
2. It will enhance awareness of seen product, machinery and equipment and prepare the students for work around the garment industry.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Understand the concept of plant location and layout					K2
CO2	Analyze the work study techniques					K4
CO3	Apply the best techniques to improve productivity with quality production					K3
CO4	Understand the functions of line balancing techniques					K2
CO5	Evaluate production planning and control techniques					K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1	Plant Location and Layout					
Plant Location and Layout. Production - Definitions - Terminology - Organizing for Production -Function of Production Department - Introduction to Garment Industry Plant Location - Location Economics -Plant Layout – Process Layout -- Product Layout – Combination Layout -Introduction to Balancing Theory – Balance Control.						
Unit:2	Work Study					
Work Study- Concept And Need - Method Study and Work Measurement -Techniques - Process Chart Symbol - Process Flow Chart -Flow Diagrams - String Diagrams - Multiple Activity Chart - Principles of Motion Economy – Simo Chart - Time Study Methods - Standard Time Data - Ergonomics With Special Reference To Garment Industry.						
Unit:3	Production and Productivity					
Production and Productivity- Methods of Production Systems - Job, Mass and Batch - Section Systems, Progressive Bundle System and 'Synchro' System- Conveyor Systems - Unit Production System - Advantages of UPS - Quick Response- Measurement of Productivity -"Men, Machine, Material" - Total Factor Productivity- Criteria for Increasing Productivity in Garment Industry.						
Unit:4	Line Balancing					
Line Balancing - Duties and Responsibilities of Production manager / Supervisor - Effective Line Supervision - Factors of Production -Production Function - Process Flow and Charts for Garment - Scheduling Calculations.						
Unit:5	Production Planning and Control					
Production Planning and Control - Capacity Requirement Planning [CRP] - Material Requirement Planning - Steps in Production Planning - Factors to be consider in Production Planning -Function, Qualitative and Quantitative Analysis of Production – Coordinating Departmental Activities - Practical Difficulties in implantation.						

Text Book(s)	
1	Carrand Latham's Technology of Clothing Manufacture, fourth edition, revised by David.J.Tyler, Blackwell Publishing UK, 2008.
2	Jacob Solinger, Apparel Manufacturers Handbook, New Age International (P) Ltd, 2005.
3	Gerry Cooklin, Introduction to Clothing Manufacture. Wiley Blackwell, 2006.
4	A. J. Chuter, Introduction to Clothing Production Management, Blackwell Scientific Publications.1988.
5	Tripathi, Personal Management and Industrial Relations, Sultan and Chand Sons, 2013
6	O.P. Khanna, Industrial Engineering and Management, Dhanpat Rai Publications, 2018
7	Rama Moorthy, Production and Operations Management, New Age International (P) Ltd, 2005.

Course code	23UTFDE07 B	TECHNICAL TEXTILES	L	T	P	C
Semester	VI	Elective-7B	5	-	-	3
Prerequisites		Gain Knowledge in technical textiles	Syllabus Version		2023-2024	
Course Objectives:						
The main objectives of this course are to:						
1. To facilitate the students to understand the structural features of technical textiles						
2. To gain knowledge about types of technical textiles						
3. To Learn the application of technical textile for different purpose						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Recognize the classification of various technical textiles.					K1
CO2	Explain the application of technical textiles					K2
CO3	To learn about technical textiles, and its applications in different field thorough knowledge.					K3
CO4	Outline the Properties and behavior of Various textiles.					K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create						
Unit:1		Introduction				
Technical Textiles: Definition, Applications, Globalization and Future of Technical Textiles industry. Technical Fibres: High – Strength and high-modulus organic fibres, High chemical and combustion - resistant organic fibres, High performance inorganic fibres, Ultra-fine and novelty fibres.						
Unit:2		Geo Tech and Indu Tech				
Geo Textiles – Introduction, General Properties and end uses. Industrial textiles - Introduction, General Properties and end uses.						
Unit:3		Medical Textiles				
Medical textiles – Introduction – materials used in bio-textiles – classification of medical textiles – textiles for implantation – non-implantable textiles – textiles for extra corporeal (biomedical) – Health care and hygiene products.						
Unit:4		Home Textiles, Agro Tech and Build Tech				
Introduction, General Properties and end uses. Agro Textiles – - Introduction, fibers used Types, functions and properties, Characteristics and Applications in Agro products and in its field Build Tech: - Introduction, fibers used Types, functions and properties, Characteristics and Applications in Architecture and in Building Construction						
Unit:5		Smart and Intelligent Textiles				
Classification - Active smart, passive smart and very smart textiles and - Phase change materials, shape memory polymers, chromic and conductive Materials and its applications in various fields.						

Text Book(s)	
1	Technical textiles – Anand and A.R. Horracks, Textile Institute
2	Hand book of Technical textiles – S C Anand and A.R. Horracks, Wood Head Publishing ltd, England 2000
3	Geo textiles – NWM John, blackie London
4	R Senthil Kumar, —Textiles for Industrial Applications CRC Press (2013)

Course code	23UTFDE07 C	FASHION MARKETING	L	T	P	C
Semester	VI	Elective- 7C	5	-	-	3
Prerequisites		Fashion Marketing Strategies	Syllabus Version		2023-2024	

Course Objectives:

The main objectives of this course are to:

1. Identify market research related to apparel production processes.
2. Understand the professional and ethical responsibility of fashion marketing.
3. Introduce digital marketing.

Expected Course Outcomes:

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

CO1	Remembering fashion terms in textile industry	K1
CO2	Understand the fashion marketing strategies	K1
CO3	Apply fashion advertising in textile industry	K3
CO4	Evaluate the fashion market research	K5
CO5	Analyze about global markets	K4

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

Unit:1 FASHION

Fashion: Meaning, Definition and Terminologies – Components of fashion - Principles of fashion – Environment of fashion: Demographic and 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 MARKETING

Meaning and classification of marketing, fashion marketing, fashion market size and structure, marketing environment –micro marketing environment, macro marketing environment. Trends in marketing management. Marketing function – definition and classification product planning and development importance of fashion products, nature of fashion products. The fashion industry and new product development product mix and range planning. Product line policies

Unit:3 FASHION ADVERTISING

Fashion advertising and preparation of advertising for apparel market. Advertising media used in apparel marketing. Advertising department, advertising agencies. A survey on analysis of customers fashion preference and international advertising. Fashion sales promotional programme for apparel marketing, communication and promotion, personal selling, point of purchase, sales promotion objectives, consumer sales promotion.

Unit:4 MARKETING RESEARCH

Marketing research – definition, scope and importance of market research in new product development. Pricing policies and strategies for apparel products. Importance of price policies. Functions of pricing. Factors influencing price decisions. Methods of setting prices. International pricing policy, export pricing.

Unit:5 GLOBAL MARKET

Global market and its participants in international marketing – Importance, growth and benefits – international market place- goods and services multinational corporations banks and insures trading companies – implications for marketing management- GATT. Present export and import details. Digital marketing- types- benefits.

Text Book(s)

1	R.S.N. Pillai and Bagavathi, S, —Marketing, Chand and Co ltd New Delhi –1987.
2	Philip C.F and Duneon D.T, —Marketing Principle and methods, Irwin publications.
3	Backman T.N. Maynard H.H and Davidson W.R, —Principles of Marketing, Ronald Press Company, New York 1970.

Course code	23UTFDE08 A	INTERNATIONAL TRADE AND DOCUMENTATION	L	T	P	C
Semester	VI	Elective- 8A	5	-	-	3
Prerequisites		Basic Knowledge in International trade	Syllabus Version		2023-2024	
Course Objectives:						
To study the Trade procedures and documentation formalities are a critical part of International Business Management. This subject aims at imparting knowledge of trade procedures and documentation formalities.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Outline export promotion council procedures for firm establishment.					K2
CO2	Infer about the implications of foreign trade policy and its documentations.					K2
CO3	Generalize the import trade procedures and documentation.					K2
CO4	Summarize the procedure and formalities of shipment and customs.					K2
CO5	Interpret the payment procedures and delivery formalities.					K2
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit: 1	Firm Establishment					
Firm establishment: introduction – export promotion councils and their role – registration Formalities - RCMC –IE code – RBI code – garment classification and categories for various countries – quota – quota distribution methods – quota transfer.						
Unit: 2	Foreign Trade Documents					
Foreign trade documents: need, rationale and types of documents relating to goods – invoice – packing note and list – certificate of origin – certificate relating to shipments – mate receipt – shipping bill – cart ticket – certificate of measurement – bill of lading – air way bill – documents relating to payment – letter of credit – types of L/C - bill of exchange – letter of hypothecation – bank certificate for payment – document relating to inspection – certificate of inspection – GP and other forms.						
Unit: 3	Import Procedure					
Import procedure : import license – procedure for import license – import trade control regulation procedure – special schemes – replenishment license – advance license – split up license – spares for after sales service license – code number – bill of entry						
Unit: 4	Shipment and Customs					
Shipment and customs: Pre-shipment inspection and quality control – foreign exchange formalities –Pre-shipment documents - documentation terms - excise and customs clearance of export cargo – shipment of goods and port procedures – customs clearance of import cargo. Post – Shipment formalities and procedures – claiming duty drawback and other benefits.						
Unit: 5	Payment and Deliveries					
Payment and deliveries: terms of delivery– INCO terms – EXW – FCA – FOB – CFR – CIF – CPT –DAF – DDP – DDU. Terms of payment – open account – cheque – cash payment against documents – bank payment against documents (LC) – security and Cost of various payment terms – Assessing the risk in payment – role of ECGC and standard policy.						

Text Books	
1	International Trade and Documentation, Edward G Hinkelman, Publisher: World Trade Press 2001.
2	Streamline Your Export Paper Work, Bose. A., Published by International Trade Form, Oct – Dec 1985.
3	Export and Import Management, Aseem Kumar, Excel Publications, 2007.
Related Online Contents[MOOC,SWAYAM, NPTEL,Websitesetc.]	
1	https://www.marketresearchreports.com/apparel-retailing
2	https://smallbusiness.chron.com/analysis-retail-apparel-industry-70514.htm
3	https://www.marketresearch.com/Consumer-Goods-c1596/Consumer-Goods-Retailing-c80/Apparel-Retailing-c1093/

Course code	23UTFDE08 B	INDUSTRIAL ENGINEERING	L	T	P	C
Semester	VI	Elective - 8B	5	-	-	3
Prerequisites	Basic Knowledge in Industrial Engineering		Syllabus Version		2023-2024	
Course Objectives:						
To study the method study and to apply layout in apparel industry. This subject aims at imparting knowledge of statistical control followed in apparel industry.						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Generalize Method Study, Work Measurement in apparel Industry				K2	
CO2	Apply Layout study and Line balancing in apparel Industry				K2	
CO3	Summarize the statistical Control				K2	
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create						
Unit:1		Introduction				
Industrial Engineering – evolution, functions, role of industrial engineer						
Unit:2		Method study				
Methods Study – Introduction, techniques of recording, method analysis techniques; principles of motion economy; method study in garment manufacture; ergonomics – importance, workplace design, fatigue						
Unit:3		Equipments used				
Work Measurement – Introduction, time study – equipment and procedure; standard data; work sampling techniques; incentive wage system; work measurement applied to garment industry.						
Unit:4		Layout Selection				
Site selection for textile industry; plant layout – types of layout suitable for textile industry, method to construct layout, line balancing						
Unit:5		Statistical Control				
Statistical Process Control – data collection, Concept of AQL, control charts in quality control, Process capability						
Text Books						
1	Khanna O.P and Sarup A, —Industrial Engineering and Management, Dhanapal Rai publications, New Delhi, 2005					
2	George Kanwaty, —Introduction to work study, ILO, Geneva, 1989					
3	Enrick N L, —Time study manual for textile industry, Wiley Eastern (P) Ltd., 1989					
4	Richard L, Levin and David S, Rubin, — Statistics for Management, 7 th edition, Prentice Hall of India Pvt Ltd, New Delhi, 1997					
5	Lee J. Krajewski and Larry P. Ritzman, — Operation Management; Strategy and Analysis, Addison Wesley, 2000					

Course code	23UTFDE08 C	APPAREL BRAND MANAGEMENT	L	T	P	C
Semester	VI	Elective- 8C	5	-	-	3
Prerequisites	Basic Knowledge in Apparel Management		Syllabus Version		2023-2024	
Course Objectives:						
The main objectives of this course are to: To introduce students to the concept of brand, brand building, branding strategies and legal issues in brand management.						
Course Outcomes:						
On the successful completion of the course, student will be able to:						
CO1	Remember the consumer behaviour, brand identity and brand equity management.					K1
CO2	Remember to the concept of brand, brand building, branding strategies and legal issues in brand management.					K1
CO3	Understand and builds loyal customers through positive brand associations and images or a strong awareness of the brand.					K2
CO4	Apply and Establish the brand loyalty in Apparel Sector.					K3
CO5	Analyze of marketing that uses techniques to increase the perceived value of a product line or brand over time.					K24
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create						
Unit:1	Introduction to Brand					
Introduction: Brand – introduction, functions, brand significance; branding – types and strategies international apparel brands - identification of perspectives and challenges to build brand- Indian garment brands and prospects of Indian brands.						
Unit:2	Brand Appraisal					
Brand Appraisal: Brand appraisal – Definition and methods - exploration, market, customer, Competition analysis, reasoning of brands importance and methods involved - laddering, emotional and rational, Brand mapping – circle, prism and triangle.						
Unit:3	Positioning					
Positioning: Positioning – definition, types – benefit, usage, features, users, price, value technology, tradition, perceptual map – product class and customer segment; positioning strategies – non functional values, brand loyalty and pyramid; positioning strategies of international garment retailers.						
Unit:4	Brand Identity					
Identity And Extension: Brand identity and articulation – name, colour, design, logo and symbols, brand service advertising and cross cultural influence; brand extension – need and types; labelling and licensing of apparel products – types, license agreement, and international property rights; need for developing brand names and labels for apparel manufactured and exported from India.						
Unit:5	Brand Measurement					
Brand Measurement: Brand measurement- definition, need and methods – audit, track, brand overtime – managing brand image - need, concepts of management, forces affecting brand and maintenance of brand, Study on brands and brand management of Indian Garment						

Text Books	
1	Building Brand Value, Parameswaran M. G., Tata McGraw Hill Publishing Company Ltd, 2006.
2	Brand Management –The Indian Context, Moorthy Y. L. R., Vikas Publication Pvt Ltd, 2007.
3	Brand Management Text and Cases, Verma Harsh V., Published by Excel books, 2006
4	Brand Management Text and Cases, Mathur U. C., Published by Macmillan India Ltd 2006.
5	Branding – Vanauken, Jaico Books, Published by Delhi, 2010

Related Online Contents[MOOC,SWAYAM, NPTEL, Websitesetc.]	
1	https://www.polimoda.com/courses/master/fashion-brand-management
2	http://textile.webhost.uoradea.ro/Annals
3	https://www.istitutomarangoni.com/en/fashion-courses/postgraduate/masters-degrees-omasters-courses/fashion-luxury-brand-management/