



AVS

COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

Attur Main Road, Ramalingapuram, Salem - 106.

(Recognized under section 2(f) & 12(B) of UGC Act 1956 and
Accredited by NAAC with 'A' Grade)

(Co - Educational Institution | Affiliated to Periyar University, Salem
ISO 9001: 2015 Certified Institution)

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Syllabus for

B. Sc TEXTILES AND FASHION DESIGNING

CHOICE BASED CREDIT SYSTEM –

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK

(CBCS – LOCF)

(Applicable to the Candidates admitted from 2023-24 onwards)

VISION

- To attain excellence in the field of education by creating competent scholars with a touch of human values.

MISSION

- To accomplish eminence in the academic domain.
- To provide updated infrastructure.
- To educate value based education.
- To impart skills through efficient training programs.
- To cultivate culture and tradition with discipline and determination.

REGULATIONS

1. Eligibility for Admission:

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.

2. 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.

3. Eligibility for award of 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.

4. Course of Study:

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

5. Scheme of 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.

6. Passing Rules:

i) 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.

ii) 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.

Programme Outcomes (POs)	
On successful completion of the B. Sc Textile and Fashion Designing	
The B. Sc.(Textile and Fashion Designing) program describe accomplishments that graduates are expected to attain within five to seven years after Graduation	
PO1	The graduates will be able to utilize their knowledge and skills in higher studies and research.
PO2	The graduates will able to execute innovative and professional skills in the field of Apparel Industry.
PO3	The graduates can start-up their business, freelance and enterprise without difficulty and canal so enter into the world of work easily
PO4	The graduates can exit with employability in various fields of textiles and apparel.
PO5	The student can begin his career in the area of Apparel Production.
PO6	Design, Draft and construct children, women and men' garments and develop Fashion portfolios
PO7	Apply the terminologies and concepts of Fashion design their respective field
PO8	Develop products with quality for market by using appropriate merchandising and marketing strategies
PO9	Plan and execute order in a garment manufacturing unit covering all stages - fiber, yarn, fabric and garment manufacture
PO10	Enhance fabric designs with dyeing, printing and surface ornamentation techniques

Program Specific Outcomes (PSOs)	
After the successful completion of B. Sc Textile and Fashion Designing programme the students are expected to	
PSO1	Gain the knowledge of Textile and Fashion Designing course through theory and practical oriented courses.
PSO2	Understand good laboratory practices in garment designing and construction.

PSO3	Understand the impact of the professional designing solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO4	Make aware of to handle the sophisticated instruments/equipment's at industry level
PSO5	Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary field and to become a significant provider of employment and self-employment opportunities.
PSO6	Develop research oriented skills and thereby build a strong foundation for higher studies.

Programme Educational Objectives (PEOs)

The B. Sc Textile and Fashion Designing programme describe 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 Mangers in Garment Industry
PEO7	The student can work as Fabric Mangers in woven and Knitted Fabric sector.
PEO8	The student canal so work as an industrial engineer.
PEO9	The student can work as Merchandiser and Costing Mangers in Garment Industries.
PEO10	The student can act as Consultant in Apparel Sectors.

CREDIT DISTRIBUTION FOR 3 YEARS B. Sc TEXTILES AND FASHION DESIGNING PROGRAMME

Part	Course Type	Credits per Course	No. of Papers	Total Credits
Part I	Language – I (Tamil/Hindi/French)	3	4	12
Part II	Language – II (English)	3	4	12
Part III	Core Courses- Theory	5	3	15
	Core Courses- Theory	4	9	36
	Core Courses- Practical	5	1	5
	Core Courses- Practical	4	4	16
	Core Courses- Practical	3	2	6
	Major Elective Courses- Theory	5	1	5
	Major Elective Courses- Theory	3	1	3
	Major Elective Courses- Theory	2	1	2
	Major Elective Courses- Practical	3	2	6
	Major Elective Courses- Practical	2	4	8
Total				102
Part IV	Non Major Elective Courses	2	2	4
	Skill Enhancement Courses - Theory	2	3	6
	Skill Enhancement Courses - Practical	2	1	2
	EVS (Environmental Studies)	2	1	2
	Value Education	1	1	1
	Foundation Course	2	2	4
Total				19
Part V	Extension Activity	1	1	1
Total Credits				146

**CONSOLIDATED SEMESTER WISE AND COMPONENT WISE CREDIT DISTRIBUTION
FOR 3 YEARS B. Sc TEXTILES AND FASHION DESIGNING PROGRAMME**

Parts	Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI	Total Credits
Part I	3	3	3	3	-		12
Part II	3	3	3	3			12
Part III	13	11	14	14	25	25	102
Part IV	4	4	6	5	-	-	19
Part V	-	-	-	-	-	1	1
Total	23	21	26	25	25	26	146

*Part I, II and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programmes and the other components IV and V have to be completed during the duration of the programmes as per the norms, to be eligible for obtaining the UG degree.

METHOD OF EVALUATION

Evaluation	Components	Marks
Internal Evaluation	Continuous Internal Assessment Test	15
	Assignments	3
	Class Participation	2
	Distribution of marks for Attendance (in percentage) 96 – 100: 5 Marks 91 – 95: 4 Marks 86 – 90: 3 Marks 81 – 85: 2 Marks	5
External Evaluation	End Semester Examination	75 Marks
Total		100 Marks

Note: 1.UG Programmes- A candidate must score minimum 10 marks in Internal and 30 marks in External Evaluation.

CONTINUOUS INTERNAL ASSESSMENT

Categorizing Outcome Assessment Levels Using Bloom's Taxonomy

level	Cognitive Domain	Description
K1	Remember	It is the ability to remember the previously learned concepts or ideas.
K2	Understand	The learner explains concepts or ideas.
K3	Apply	The learner uses existing knowledge in new contexts.
K4	Analyze	The learner is expected to draw relations among ideas and to compare and contrast.
K5	Evaluate	The learner makes judgments based on sound analysis.
K6	Create	The learner creates something unique or original.

Question Paper Blue Print for Continuous Internal Assessment- I & II

Duration: 2 Hours		Maximum: 50 marks					
Section	K level						Marks
	K1	K2	K3	K4	K5	K6	
A (no choice)	10						10 X 1 =10
B (no choice)		1	1				2 X 5 =10
C (either or choice)				3			3 x 10 = 30
Total							50 marks

Note: K4 and K5 levels will be assessed in the Model Examination whereas K5 and K6 Levels will be assessed in the End Semester Examinations.

Question Paper Blue Print for Continuous Internal Assessment- I

Time: 2 Hours

Total Marks: 50 Marks

Minimum Pass: 20 Marks

Unit	Section - A	Section - B	Section - C
I	Q.N. 1, 2, 3, 4, 5	Q.N. 11	Q.N. 13 A, 13 B
I or II	-	-	Q.N. 14 A, 14 B
II	Q.N. 6, 7, 8, 9, 10	Q.N. 12	Q.N. 15 A, 15 B

SECTION – A (10 X 1 = 10 Marks)

ANSWER ALL THE QUESTIONS

SECTION – B (2 X 5 = 10 Marks)

ANSWER ALL THE QUESTIONS

SECTION – C (3 X 10 = 30 Marks)

ANSWER ALL THE QUESTIONS (Either or Choice)

Question Paper Blue Print for Continuous Internal Assessment- II

Time: 2 Hours

Total Marks: 50 Marks

Minimum Pass: 20 Marks

Unit	Section - A	Section - B	Section - C
III	Q.N. 1, 2, 3, 4, 5	Q.N. 11	Q.N. 13 A, 13 B
III or IV	-	-	Q.N. 14 A, 14 B
IV	Q.N. 6, 7, 8, 9, 10	Q.N. 12	Q.N. 15 A, 15 B

SECTION – A (10 X 1 = 10 Marks)

ANSWER ALL THE QUESTIONS

SECTION – B (2 X 5 = 10 Marks)

ANSWER ALL THE QUESTIONS

SECTION – C (3 X 10 = 30 Marks)

ANSWER ALL THE QUESTIONS (Either or Choice)

Question Paper Blue Print for Model Examination & End Semester Examination

Duration: 3 Hours		Maximum: 75 marks						
Section		K level						Marks
		K1	K2	K3	K4	K5	K6	
A (no choice, three questions from each unit)		15						15 X 1 =15
B (choice, one question from each unit)			1	1				2 X 5 =10
C (either or choice & two questions from each unit)	<i>Courses with K4 as the highest cognitive level</i>				4	1		5 x 10 = 50
	<i>Course with K5 as the highest cognitive level wherein three K4 questions and two K5 questions are compulsory.</i>				3	2		
	<i>Course with K6 as the highest cognitive level wherein two questions each on K4, K5 and one question on K6 are compulsory.</i>				2	2	1	
Total								75 marks

Question Paper Blue Print for Model Examination & End Semester Examination

Time: 2 Hours

Total Marks: 75 Marks

Minimum Pass: 30 Marks

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

SECTION – A (15 X 1 = 15 Marks)

ANSWER ALL THE QUESTIONS

SECTION – B (2 X 5 = 10 Marks)

ANSWER ANY TWO QUESTIONS

SECTION – C (5 X 10 = 50 Marks)

ANSWER ALL THE QUESTIONS (Either or Choice)

Question Paper Blue Print for Model Practical Examination & End Semester Examination (Practical)

Time: 3 Hours

Total Marks: 60 Marks

Minimum Pass: 24 Marks

Practical Marks	Maximum Mark	Minimum Mark
Internal	40	16
External	60	24
Total	100	40

Evaluation for End Semester Examinations (Practical)

Record	10 marks
Formula with expansion	05 marks
Samples	20 marks
Viva-voce	05 marks
Calculation	15 marks
Result with units	05 marks
TOTAL	60 MARKS

*Submission of record with due certification is a must for external practical examinations.

**A student should complete all requires experiments to get 10 marks for the record.

Scheme of Examination for B. Sc Textile and Fashion Designing

First Year – Semester - I

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
I	23UFTA01	Podhu Tamil - I	3	3	25	75	100
II	23UFEN01	General English - I	3	3	25	75	100
III	23UTFCT01	Core Course I - Fiber and Yarn Science	5	5	25	75	100
III	23UTFCP01	Core Course II - Basic Apparel Designing Practical	4	3	25	75	100
III	23UTFE01	Elective I - Pattern Making and Grading	5	5	40	60	100
IV	23UTFFP01	Foundation Course I - Basic Illustration and Sketching Practical	2	2	40	60	100
IV	23UTANE01	NME - Pechikallai Thiran	2	2	25	75	100
Total			24	23	205	495	700

First Year – Semester - II

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
I	23UFTA02	Podhu Tamil – II	3	3	25	75	100
II	23UFEN02	General English – II	3	3	25	75	100
III	23UTFCT02	Core Course III - Woven Fabric Science	4	4	25	75	100
III	23UTFCP02	Core Course IV - Fiber and Fabric Science Practical	3	3	40	60	100
III	23UTFE02	Elective II - Apparel Manufacturing Machineries and Equipment	3	2	25	75	100
III	23UTFE03	Elective III - Pattern Making and Grading Practical	3	2	40	60	100
IV	23UTFSP01	Skill Enhancement Course I - Surface Embellishment and Garment Accessories and Trims Practical	2	2	40	60	100
IV	23UVCNP01	Non Major Elective Course – Basic Photography	2	2	40	60	100
Total			23	21	260	540	800

Second Year – Semester - III

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
I	23UFTA03	Podhu Tamil – III	3	3	25	75	100
II	23UFEN03	General English – III	3	3	25	75	100
III	23UTFCT03	Core Course V - Textile Wet Processing	4	4	25	75	100
III	23UTFCP03	Core Course VI - Children's Apparel Practical	4	4	40	60	100
III	23UTFCP04	Core Course VII - Fashion Draping Practical	4	4	40	60	100
III	23UTFE04	Elective IV - Textile Wet Processing Practical	3	2	40	60	100
IV	23UTFST01	Skill Enhancement Course II - Care and Maintenance of Textile and Apparel	2	2	25	75	100
IV	23UTFFT02	Foundation Course II - Organization of Garment Unit	2	2	25	75	100
IV		Environmental Science		2	25	75	100
Total			25	26	270	630	900

Second Year – Semester - IV

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
I	23UFTA04	Podhu Tamil – II	3	3	25	75	100
II	23UFEN04	General English – II	3	3	25	75	100
III	23UTFCT04	Core Course VIII - Fashion Merchandising	4	4	25	75	100
III	23UTFCP05	Core Course IX - Women's Apparel Practical	4	4	40	60	100
III	23UTFCT05	Core Course X - Fundamental of Fashion	4	4	25	75	100
III	23UTFE05	Elective V - Traditional Indian Costumes and Embroidery	3	2	25	75	100
IV	23UTFSP02	Skill Enhancement Course III- Fashion Designing Practical	2	2	40	60	100
IV	23UTFST02	Skill Enhancement Course IV- Fashion Personal Grooming	2	2	25	75	100
IV		Value Education		1			100
Total			25	25			900

Third Year – Semester – V

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
III	23UTFCT06	Core Course XI - Apparel Quality Managements	4	4	25	75	100
	23UTFCP06	Core Course XII - Men's Apparel Practical	4	4	40	60	100
	23UTFCT07	Core Course XIII - Textile Finishing	4	4	25	75	100
	23UTFCT08	Core Course XIV - Knitting and Non-woven	4	4	25	75	100
	23UTFCT09	Core Course XV - Industrial Engineering	4	4	25	75	100
	23UTFE06A	Elective VI - Beauty Care Practical	2	2	40	60	100
	23UTFE07A	Elective VII - Computer Application in Garment Designing	3	3	25	75	100
Total			25	25			700

Third Year – Semester - VI

Part	Course Code	Course Title	Ins. Hrs	Credit	CIA	ESE	Total
III	23UTFCT10	Core Course XVI - International Trade and Documentation	5	5	25	75	100
	23UTFCT11	Core Course XVII - Computer in Garment Designing Practical	5	5	40	60	100
	23UTFCT12	Core Course XVIII - Textile Testing	5	5	25	75	100
	23UTFCT13	Core Course XIX - Home Textile	4	4	25	75	100
	23UTFE08A	Elective VIII - Fashion Portfolio Practical	3	3	40	60	100
IV	23UTFE09A	Elective IX - Textile Testing Practical	3	3	40	60	100
V		Extension Activity		1			
Total			25	26			600

****Ins. Hrs** – Instructional Hours, **CIA**- Continuous Internal Assessment, **ESE**- End Semester Examination

Semester: I	Course Code: 23UTFCT01	Hours/Week: 5	Credit: 5
COURSE TITLE : CORE COURSE I - FIBER AND YARN SCIENCE			

Course Overview:

1. Introduction to fibers and their properties.
2. Techniques for preparing fibers for yarn production.
3. Yarn formation methods including spinning and twisting.
4. Innovations in yarn manufacturing.

Learning Objectives:

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 gain knowledge in advanced spinning system.

Unit - I	Introduction of Textile Fibers	09 Hours
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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 users - Felting – Woolen and Worsted Yarns. Silk: Producing countries – Degumming – Weighting – Properties - End uses. Brief study on wild silk varieties

Unit - II	Filament Spinning System	09 Hours
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Methods of filament spinning. Semi synthetic fibers: Regenerated and modified cellulose –Viscose rayon process flow - HWM fibers - End users – Brief study of Bamboo, Lyocell, Soya bean fibers

Unit - III	Polymer Science	09 Hours
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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 - IV	Yarn Production Process	09 Hours
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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 – Rotary spinning, Compact Spinning.

Unit - V	Post Yarn Process	09 Hours
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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.

Reference Books:

1. Hand Book of Textile Fibers – Vol. I and Vol. II. Gordon Cook, J, Wood Head Publishing Ltd., Cambridge, England, 1984.
2. Man – made Fibers, Moncrieff, W, Butterworth Scientific Publication, 1975.
3. Hand book of Textile Fibers : Natural Fibers, J Gordon Cook, Wood head publication Limited, 1984

Web Resources:

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>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom's Level
CO1	Develop algorithmic solutions to simple computational problems	K1
CO2	Read, write, execute by hand simple Python programs. Structure simple Python programs for solving problems.	K2
CO3	Decompose a Python program into functions	K3
CO4	Describe the hash function and concepts of collision and its resolution methods	K4
CO5	Judge the pros and cons of Python	K2

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

Mapping (COs vs POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	L	L	M	M	M	S	S	S	M
CO2	S	L	S	S	M	M	M	M	M
CO3	S	M	S	M	M	S	L	S	M
CO4	M	M	L	S	M	M	M	M	L
CO5	M	M	M	S	S	M	L	S	M

S - Strong, M – Medium, L – Low

Semester: I	Course Code: 23UTFE01	Hours/Week: 5	Credit: 5
COURSE TITLE : ELECTIVE I - PATTERN MAKING AND GRADING			

Course Overview:

1. Understand the basics of pattern making, including terminology, tools, and techniques used in the process.
2. Develop drafting skills for basic pattern blocks including as bodices, sleeves, skirts, and pants, which are the fundamental elements for making a variety
3. Gain insight into body measurements and fit principles to ensure garments fit comfortably and flatteringly on different body types
4. Learn how to grade patterns so that you can methodically change sizes without sacrificing the fit and style of the item.

Learning 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

Unit - I	Body Measurements	09 Hours
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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 - II	Drafting	09 Hours
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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 - III	Draping	09 Hours
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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 - IV	Grading and Preparation of Fabric for Cutting	09 Hours
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Grading, Introduction and importance of grading, Manual Grading of basic bodice – front and back, Sleeve, skirt and Collar, Computerized Grading. Basic terms: Grain, Selvedge, 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 - V	Pattern Alteration and Layout	09 Hours
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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 Fashion Design. 5th editions. India: Dorling Kindersley
3. Gayatri Verma, (2006). Cutting and Tailoring Course. New Delhi: Asian publishers.

Reference Books:

1. Connie Amaden Crawford,(2005).The Art of Fashion Draping III Edition. OM Books International.
2. Lori A. Knowles,(2005). The Practical Guide to Pattern Making for Fashion Designers. New York: Fair Child, Publications, Inc.

Web Resources:

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>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom's Level
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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	S	M	M	S	L	M	S	S	M
CO2	S	M	M	M	L	L	M	S	L
CO3	S	S	S	M	M	M	S	M	L
CO4	S	S	S	M	M	M	M	M	L
CO5	S	M	M	S	L	L	M	S	S

S - Strong, M – Medium, L – Low

Semester: I	Course Code: 23UTFCP01	Hours/Week: 4	Credit: 3
COURSE TITLE : CORE COURSE II - BASIC APPAREL DESIGNING PRACTICAL			

Course Overview:

1. Give pupils an elementary comprehension of the concepts and methods related to clothing design.
2. Introduce pupils to a variety of fabric kinds, their characteristics, and suitable applications in clothing construction.
3. Teach pupils the principles of sewing, such as creating simple seams and adjusting seam finishes to suit different types of clothing.
4. Through guided design projects and exercises, encourage students to explore their creativity and create a distinctive design style.

Learning Objectives:

1. To impart practical exposure in sewing.
2. To acquaint students with the knowledge on basic sewing techniques.
3. To impart the knowledge and skills required for garment designing.

PREPARE THE SAMPLE FOR THE FOLLOWING

- 1 Preparation of Samples for Seams and Seam Finishes.
- 2 Preparation of Samples for Seams and Seam Finishes.
- 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. Publishers
3. KR Zarapker, (2005) Zarapker System of Cutting. New Delhi: Navneet Publications Ltd.
4. Thangam Subramaniam, (2006). Dress Making- Bombay Tailoring and Embroidery College
5. Ruth Sleigh Johnson, (2011). Practical sewing techniques. London :A and C Black publishers

Web Resources:

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>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom's Level
CO1	Manipulate the various seams, seam finish and bias finishing techniques.	P2
CO2	Customize the fullness methods, placket and fasteners attachments in garment.	P2
CO3	Construct the various body parts of a garment.	P4

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	S	M	M	S	L	M	M	M	L
CO2	S	M	M	M	L	L	M	M	L
CO3	S	S	S	M	L	M	M	M	L

S - Strong, M – Medium, L – Low

Semester: I	Course Code: 23UTFFP01	Hours/Week: 2	Credit: 2
COURSE TITLE : FOUNDATION COURSE I - BASIC ILLUSTRATION AND SKETCHING PRACTICAL			

Course Overview:

1. Emphasis on understanding basic principles like line, shape, form, perspective, and composition.
2. Concentrate on honing your sketching skills in a variety of areas, including shading, rendering, motion drawing, and contour drawing.
3. Application of illustration and sketching skills to solve creative challenges and effectively communicate ideas.
4. Assistance in building a portfolio that highlights abilities and creative development during the course of the course.

Learning 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.

PREPARE THE SAMPLES FOR THE FOLLOWING

- 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).

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
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

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	S	M	S	S	M	M	L	M	S
CO2	S	M	S	S	M	M	S	L	S
CO3	S	M	S	S	L	M	S	M	S

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFCT02	Hours/Week: 4	Credit: 4
COURSE TITLE : CORE COURSE III - WOVEN FABRIC SCIENCE			

Course Overview:

1. The process of creating fabrics by crossing threads over and under one another is known as "woven fabric science."
2. Elaborate different weave pattern such as a plain, twill, satin etc.,
3. Automation and digitization have revolutionized weaving, enabling precise control over yarn positioning and intricate pattern creation.
4. Development of eco-friendly weaving techniques, such as air-jet and water-jet weaving, to reduce energy consumption and minimize environmental impact.

Learning 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

Unit - I	Preparatory Process	09 Hours
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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 - II	Sizing Process	09 Hours
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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 - III	Basic Mechanisms of Looms	09 Hours
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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 - IV	Weaving and its types	09 Hours
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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 warp and extra weft figuring – single and double colour.

Unit - V	Loom types	09 Hours
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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. N.Gokarneshan, Fabric Structure and Design, New Age International Publishers, New Delhi (2004).
2. K.T.Aswani, Fancy Weaving Mechanism, Mahajan Book Distributors, Ahmadabad (1990).

Reference Books:

1. B.Hasmukhrai, Fabric Forming, SSM ITT Co operative stores Ltd, Komarapalayam (1996).
2. R.Marks, A.T.C. Robinson, Principles of Weaving, The Textile Institute, Manchester(1976)

Web Resources:

1. <https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designsintroduction-to-woven-fabric/>
2. <https://www.textileschool.com-453-wovendesign->
3. <https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-andweave-relationship-in-woven-fabric>

<p>Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning</p>

Learning Outcomes:		
Upon successful completion of this course, the student will be able to		
Cos	Statements	Bloom's Level
CO1	Clarify the preparatory processes involved in the woven fabric production.	K1
CO2	Explain the principles of sizing process and its methods.	K2
CO3	Infer about the basic mechanism of loom and its structure.	K3
CO4	Categorize the woven fabrics and its structure	K4
CO5	Differentiate the types of looms and jacquard mechanisms involved in woven fabric production.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Mapping (COs vs POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	L	M	S	S	S	L	S	M	M
CO2	M	M	S	S	S	L	S	M	S
CO3	L	M	M	M	S	M	S	L	S
CO4	M	S	S	S	S	M	S	L	L
CO5	M	M	M	M	S	M	S	S	S

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFCP02	Hours/Week: 3	Credit: 3
COURSE TITLE : CORE COURSE IV- FIBRE AND FABRIC SCIENCE PRACTICAL			

Course Overview:

1. This course typically focuses on hands-on laboratory work related to the study of fibers and fabrics
2. It aims to bridge theoretical knowledge with practical applications in the field of textile science.
3. Develop practical skills in fiber identification and textile testing techniques.
4. Foster an awareness of sustainable and innovative practices in the textile industry.

Learning Objectives:

1. To determine and testing of textile fibers and yarns
2. To identify the different types of weaves
3. To understand the woven fabrics designs

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, Pointed Twill weave
- 8 Sateen/ Satin
- 9 Honey comb
- 10 Huck – a- Back
- 11 Crepe weave
- 12 Extra warp – Dobby and jacquard weave
- 13 Extra weft – Dobby and jacquard weave
- 14 Mock leno
- 15 Pile weave

Text Book(s):

1. Handbook of Textile fibers, Wood head Publications, (1984).
2. N. Gokarneshan, Fabric Structure and Design, New Age International Publishers, New Delhi (2004).

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom's Level
CO1	Remembering of fiber identification	K1
CO2	Evaluating yarn count and twist	K2
CO3	Analyze the various woven fabric design	K3
CO4	Understanding of fabric particulars	K4
CO5	Create fibre to fabric analysis systems	K5

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	L	M	S	S	S	L	M	S	M
CO2	M	M	S	S	S	L	M	S	L
CO3	L	M	M	S	S	M	S	L	S
CO4	M	S	S	S	S	M	S	M	S
CO5	M	M	M	S	S	M	L	M	S

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFE02	Hours/Week: 3	Credit: 2
COURSE TITLE : ELECTIVE II - APPAREL MANUFACTURING MACHINERIES AND EQUIPMENT			

Course Overview:

1. The goal of this course is to give students a thorough grasp of the tools and machinery utilized in the clothing manufacturing sector.
2. The technologies and procedures used to produce clothing quickly and at a high standard are the main topics of discussion.
3. Developing skills and knowledge for a successful career in apparel manufacturing.
4. By the completion of the course, students will have a solid understanding of the tools and machinery used in the garment manufacturing business, empowering them to make valuable contributions to the sector and seek jobs in a variety of manufacturing-related areas.

Learning 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.

Unit - I	Introduction to Garment Industry Process	09 Hours
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Introduction to garment industry process details. Spreading machine: Types and working Procedures. Cutting machines: Types of cutting machines and its application – Detailed study on band knife, straight knife, drills and notches.

Unit - II	Classification of Garment Manufacturing Machines	09 Hours
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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 - III	Sewing Machine and its Details	09 Hours
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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 - IV	Machine Parts	09 Hours
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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 - V	Garment Finishing Process	09 Hours
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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,
2. Publication by Blackwell Science Ltd, England 1994
3. Introduction to Clothing Manufacture, Gerry Cooklin, Publication by Blackwell
4. Science Ltd, England 1991

Reference Books:

1. Terry Bracken bury, Knitted Clothing Technology, Publication by Blackwell
2. Science Ltd, England, 1992.

Web Resources:

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

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:		
Upon successful completion of this course, the student will be able to		
Cos	Statements	Bloom's Level
CO1	Describe the various machineries and process involved in fabric spreading and cutting.	K1
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.	K3
CO4	Explain the special machines and its functions in Garment Industry.	K4
CO5	Identify garment finishing machineries and its working principles	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

Mapping (COs vs POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	S	M	M	S	S	M	M	S	M
CO2	S	M	M	S	S	M	M	S	S
CO3	S	M	M	S	S	M	M	S	M
CO4	S	M	M	S	S	M	M	S	M
CO5	S	M	M	S	S	M	M	S	M

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFE03	Hours/Week: 3	Credit: 2
COURSE TITLE : ELECTIVE III - PATTERN MAKING AND GRADING PRACTICAL			

Course Overview:

1. Understand the basics of pattern making, including terminology, tools, and techniques used in the process.
2. Develop drafting skills for basic pattern blocks including as bodices, sleeves, skirts, and pants, which are the fundamental elements for making a variety
3. Gain insight into body measurements and fit principles to ensure garments fit comfortably and flatteringly on different body types
4. Learn how to grade patterns so that you can methodically change sizes without sacrificing the fit and style of the item.

Learning 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

I	Draft and grade the pattern for the following
a)	Sleeve – Plain, Puff, Bell, cap, Tulip
b)	Collar – Shirt, Peter pan, Stand, Shawl
c)	Yoke – Simple, Partial
II	Design, draft and grade basic apparel for
a)	Children – Bib, Panty, Jabla, Summer frock, A-Line Frock
b)	Women – Saree Petticoat, Middi and Middi top, Blouse, Nighty, Salwar kameez
c)	Men- Full Sleeve Shirt, Pleated Trouser, S.B.Vest, Nehru Kurtha, Night Dress

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.5th editions. India: Dorling Kindersley
3. Gayatri Verma, (2006).Cutting and Tailoring Course. New Delhi: Asian publishers.
4. Connie Amaden Crawford,(2005).The Art of Fashion Draping III Edition. OM Books International.

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom's Level
CO1	Infer about pattern making terminology and steps in taking body measurement.	K1
CO2	Summarize the pattern drafting techniques and fitting standards for different garments.	K2
CO3	Generalize the Pattern Draping techniques and its facts.	K3
CO4	Predict different pattern grades and fabric grains for cutting.	K4
CO5	Explain pattern alteration techniques and predict the various kinds of pattern layout.	K5

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	M	S	S	M	M	S	M	S
CO2	S	S	M	S	M	S	S	M	S
CO3	M	S	L	S	M	S	M	L	S
CO4	M	S	M	S	M	S	M	M	M
CO5	L	M	M	S	M	L	M	S	S

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFSP01	Hours/Week: 2	Credit: 2
COURSE TITLE : SKILL ENHANCEMENT COURSE I - SURFACE EMBELLISHMENT AND GARMENT ACCESSORIES AND TRIMS PRACTICAL			

Course Overview:

1. To provide comprehensive knowledge and practical skills in surface embellishment techniques and the use of garment accessories and trims in the fashion and textile industry.
2. To explore various methods to enhance the surface of fabrics and garments, as well as understand the significance of accessories and trims in achieving unique and appealing designs.
3. To Understand industry trends and incorporating them into designs
4. Practical assignments demonstrating surface embellishment skills

Learning 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.

A. Prepare Samples for the Following

1. Hand Embroidery
2. Machine Embroidery
3. Applique
4. Smocking
5. Bead, Sequins, Stone
6. Crochet

B. Traditional Embroidery

1. Aari & Zardosi
2. Mirror work
3. Chikankari
4. Phulkari
5. Kasuti
6. Kutch
7. kantha

C. Prepare the sample for the Following

1. Tassels
2. Fringes
3. Patch work

4. Ribbon
- D. Accessories**
1. Hand Bag
2. Bow
3. Hat
4. Purse and Pouch
5. Belt

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 Artist Collaboration, Paige Tata and Co.

Web Resources:

1. <https://sueguide.csom/smocking/>
2. <https://www.youtube.com/watch?v=nJz9c8gEvFg>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

Cos	Statements	Bloom’s Level
CO1	Produce the hand and machine embroidery samples	K1
CO2	Prepare decorative samples using beads or mirrors or	K2
CO3	Develop complex fashion accessories by learning to design different accessories manually	K3

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	M	S	L	S	S	S	M	M
CO2	M	M	M	M	S	M	L	S	M
CO3	M	M	M	M	S	M	M	S	M

S - Strong, M – Medium, L – Low

Semester: II	Course Code: 23UTFN02	Hours/Week: 3	Credit: 2
COURSE TITLE : NON MAJOR ELECTIVE COURSE - FASHION DESIGNING PRACTICAL			

Course Overview:

1. Learning technique use for Sketching , Illustrating, Fashion Designs
2. Exploring concepts of styling and presenting the creative designs
3. Provide opportunities for hands on practice to apply theoretical knowledge to real world design concepts,
4. To develop a comprehensive understanding of fashion design and acquire the practical skills

Learning Objectives:

1. To enable the students to develop the ability to create design through Sketching technique.
2. To impart skills in Illustration.
3. To enable the students to learn the skills of standardizing various fashion figures

1.PreparethefollowingCharts

- Prangcolor chart
- Valuechart
- Intensitychart

2.IllustrateHumanFigurefortheFollowingHeads

- Child-6head
- Women and Men–8head

3.IllustrateGarmentDesignsfortheElementsofDesign

- Line
- Texture
- Shape

4.IllustrateGarmentDesignsforthePrinciplesofDesign

- Balance(FormalandInformal)
- Harmony
- Emphasis
- Proportion
- Rhythm

5.IllustratetheColorHarmonyin DressDesign

- Monochromatic
- Analogous
- Complimentary
- Triad
- Neutral

Text Book(s):

- 1 Fashion Sketch Book, Bina Ablang, Fair Child Publications, New York Wardrobe, 1988.
- 2 Illustrating Fashion, Kathryn Mc Kelvey and Janine Munslow, Black well Science, 1997.
- 3 Art and Fashion in Clothing Selection, McJimsey and Harriet, Iowa State University Press, Iowa, 1973.

Web Resources:

- 1 <https://www.idrawfashion.com/>
- 2 <https://www.fashionistasketch.com/drawing-faces-fashion-illustration/>
<https://in.pinterest.com/pin/458804280762797371/>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Infer about pattern making terminology and steps in taking body measurement.	K1
CO2	Summarize the pattern drafting techniques and fitting standards for different garments.	K2
CO3	Generalize the Pattern Draping techniques and its facts.	K3
CO4	Predict different pattern grades and fabric grains for cutting.	K4
CO5	Explain pattern alteration techniques and predict the various kinds of pattern layout.	K5

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	M	S	S	M	M	S	M	S
CO2	S	S	M	S	M	S	S	M	S
CO3	M	S	L	S	M	S	M	L	S
CO4	M	S	M	S	M	S	M	M	M
CO5	L	M	M	S	M	L	M	S	S

S - Strong, M – Medium, L – Low

Semester: III	Course Code:23UTFCT03	Hours/Week: 4	Credit: 4
COURSE TITLE : CORE COURSE V- TEXTILE WET PROCESSING			

Course Overview:

1. The goal of the course is to give students a thorough understanding of the concepts, methods, and technologies related to wet processing in the textile business.
2. Demonstrate proficiency in various dyeing and finishing techniques.
3. Analyze the effects of wet processing on the environment and provide viable remedies.
4. Utilize your understanding of color theory and measurement to achieve successful printing and dyeing.

Learning Objectives:

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

Unit - I	Wet Processing Process and Basic Finishes	09 Hours
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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 - II	Aesthetic, Functional and Special Finishes	09 Hours
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Aesthetic finish– glazed, Moire, embossed, napped finish Functional finish – Water repellent, flame retardant, antistatic finish Special purpose finish – fragrance, antibacterial, stone wash and enzyme wash in denim Recent trends – Microencapsulation and nano finishes.

Unit - III	Dyes and Dyeing Machines	09 Hours
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Dyes – classification and suitability of dyes to the fabric, stages of dyeing – fiber, yarn, fabric and garment dyeing, Natural dyes and its significance, Dyeing machines – loose stock fiber bale – hank package – jigger – winch – HT and HP Beam, jet – padding mangles. Garment dyeing machines

Unit - IV	Direct Printing	09 Hours
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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 - V	Resist, Discharge Printing and Effluent Treatment	09 Hours
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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.

Reference Books:

1. Functional Finishes, Menachem Lewin and Stephen B. Sello, Marcel Dekker, Inc., 1984.
2. Textile Finishing, R.S. Prayag, Shree J Printers, India, 1994.

Web Resources:

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>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Generalize the pre-preparatory process sequence in a textile industry	K1
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	K4
CO5	Outline about discharge printing and the need for effluent treatment	K5

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	S	S	M	S	L	S	M	S
CO2	M	M	L	M	M	M	S	M	S
CO3	L	M	M	M	M	M	S	L	L
CO4	L	M	S	M	L	S	S	S	M
CO5	L	M	S	M	S	S	S	M	M

S - Strong, M – Medium, L – Low

Semester: III	Course Code: 23UTFCP03	Hours/Week: 4	Credit: 4
COURSE TITLE : CORE COURSE VI - CHILDRENS APPAREL PRACTICAL			

Course Overview:

1. A course would cover a variety of topics pertaining to creating, producing, and promoting kid-specific apparel.
2. Techniques for drafting the pattern and constructing children's apparel suitable for durability and comfort
3. Generating imaginative design ideas for kids.
4. Methods of illustration unique children's clothing.

Learning 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

I	Prepare the sample for the following
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 - Knickers with chest piece attached (or) Romper
5	A-Line Frock - double pointed dart, neck line and arm hole finished with facing
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 skirt (or) frock-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 Publications Ltd.
3. Cutting and Tailoring course, Gayathri Verma and Kapil Dev, Computech Publications

Web Resources:

1. <https://epgp.inflibnet.ac.in/home/viewssubject?catid=827>
2. <https://www.youtube.com/watch?v=LuazkYL0j3a>
3. <https://www.youtube.com/watch?v=nI-shbmnuVg>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Design and generalize the measurements for the various kids' garments.	K1
CO2	Prepare patterns and calculate material requirement for the designed kid's wear.	K2
CO3	Construct the designed kid's garment and calibrate the cost of the garment.	K3
K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create		

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	M	M	M	S	M	M	S	M
CO2	M	M	L	M	S	L	M	S	M
CO3	S	S	S	M	M	M	L	S	S

S - Strong, M – Medium, L – Low

Semester:	Course Code: 23UTFCP04	Hours/Week: 4	Credit: 4
COURSE TITLE : CORE COURSE VII - FASHION DRAPING PRACTICAL			

Course Overview:

1. Overview of the history and significance of fashion draping.
2. The goal of this hands-on fashion draping workshop is to provide students actual experience in the technique of arranging fabric to create designs for clothing.
3. Learn the basic methods of draping on dress forms and experiment with different designs, shapes, and fabric manipulations.
4. Proper padding and shaping of dress forms.

Learning Objectives:

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.

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, Raglan, Cape, Puff, Circular, Kimono
5	Neckline - Boat, Key Hole, Halter, Scooped, Scalloped, Cowls, Twist, Surplice
6	Collar - Mandarin, Peter pan, Turtle, Ruffled and Shawl
7	Yoke - Hip Yoke, Midriff and Shirt Yoke
8	Design and Drape one couture wear for Men
9	Design and Drape one couture wear for Women

Text Book(s):

1. Draping for Fashion Design, 5th 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 – 3rd Editions, 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, Bats ford, 1998.

Web Resources:

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>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Prepare muslin and formulate the measurements for various garment's draping	K1
CO2	Produce the pattern blocks in dress form for various garments	K2
CO3	Create dart or pleat variations in appropriate garment patterns	K3
K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyze, K5 – Evaluate, K6 – Create		

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	L	M	M	S	S	S	L	M	M
CO2	M	M	M	S	S	M	M	L	M
CO3	M	S	S	M	S	L	M	S	M

S - Strong, M – Medium, L – Low

Semester: III	Course Code: 23UTFE04	Hours/Week: 3	Credit: 2
COURSE TITLE : ELECTIVE IV -TEXTILE WET PROCESSING PRACTICAL			

Course Overview:

1. The goal of the course is to give students a thorough understanding of the concepts, methods, and technologies related to wet processing in the textile business.
2. Demonstrate proficiency in various dyeing and finishing techniques.
3. Analyze the effects of wet processing on the environment and provide viable remedies.
4. Utilize your understanding of color theory and measurement to achieve successful printing and dyeing.

Learning Objectives:

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 dyeing.

I Preparation of samples for processing

- 1 Desizing
- 2 Scouring
- 3 Bleaching
- 4 Mercerizing

II Dye the given fabric using suitable dye

- 1 Direct Dye
- 2 Sulphur Dye
- 3 Vat Dye
- 4 Disperse Dye
- 5 Reactive Dye
- 6 Acid Dye

III Printing of Fabrics

- 1 Printing of cotton using block and screen printing (2 Samples each).

- 2 Printing of tie and dye and batik (2 samples each).
- 3 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.
3. Vigo, elsewhere publishing, Netherland
4. Textile Wet processing, Manoj Dole, Manoj Dole Publications Co. India (2018)

Web Resources:

1. <https://britannica.com/topic/textile/dying-and-printing>
2. <https://www.sciencedirect.com/topics/engineering/dying-process>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Prepare the samples by pre-treatment process and calculate weight loss percentage.	K1
CO2	Formulate the recipe for the fabric sample dyeing	K2
CO3	Produce the sample by formulated recipe and calibrate shade percentage	K3

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	S	L	M	S	S	S	M	M	L
CO2	M	M	M	L	M	S	L	L	M
CO3	M	M	M	M	L	S	L	S	S

S - Strong, M – Medium, L – Low

Semester: III	Course Code: 23UTFST01	Hours/Week: 2	Credit: 2
COURSE TITLE : SKILL ENHANCEMENT COURSE III - CARE AND MAINTENANCE OF TEXTILE AND APPAREL			

Course Overview:

1. Emphasizes teaching students the knowledge and abilities necessary for handling, maintaining, and cleaning textiles and apparel.
2. to teach people how to take better care of their clothes, make them seem better, and maintain the highest standards of hygiene.
3. Understanding the impact of light, humidity, and insects on textiles.
4. to provide knowledge with the information and abilities required to properly maintain clothing and textiles, encouraging sustainability and extending the life of clothing items.

Learning Objectives:

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

Unit - I	Water and Laundry Soaps	09 Hours
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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 - II	Finishes and Stain Removal	09 Hours
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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 - III	Washing, Drying and Ironing	09 Hours
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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 - IV	Laundering of Different Fabrics	09 Hours
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Laundering of different fabrics – cotton and linen, woolens, colored fabrics, silks, rayon and nylon.
Special types of Laundry – waterproof coats, silk ties, leather goods, furs, plastics, lace.

Unit - V	Storing, Dry Cleaning and Care Labels	09 Hours
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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 Labeling System, The Japanese Care Labeling System, The Canadian Care Labeling System, The European Care Labeling System, The American Care Labeling 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

Reference Books:

1. Mildred T. Tate and Glisson O, Family Clothing, John Wiley and Sons Inc, Illinois, 1961
2. Durga Deulkar , Household Textiles and Laundry Work, Amla Ram and Sons, Delhi, 1951

Web Resources:

1. <https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-onhow-to-do-laundry#Step1>
2. <https://www.drycleaning.com.sg/blog/5-differences-between-dry-cleaning-and-laundry.html>
3. <https://www.rinse.com/blog/care/what-is-dry-cleaning>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
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	K4
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		

Mapping (COs vs POs)									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	M	M	S	S	M	S	L	L	S
CO2	M	M	S	M	M	S	M	S	S
CO3	M	M	S	S	L	S	S	S	S
CO4	M	L	S	S	M	M	S	M	M
CO5	M	L	S	S	M	M	S	M	L

S - Strong, M – Medium, L – Low

Semester: III	Course Code: 23UTFFT02	Hours/Week: 2	Credit: 2
COURSE TITLE : FOUNDATION COURSE II - ORGANISATION OF GARMENT UNIT			

Course Overview:

1. A summary of the whole clothing production process, from distribution to design.
2. Putting quality standards into practice when producing clothing.
3. Procedures for inspection and methods for quality control.
4. Positions and duties in a factory that produces clothing.

Learning Objectives:

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

Unit - I	Entrepreneur and Management	09 Hours
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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 - II	Organizational Structure of a Garment Unit	09 Hours
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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 - III	Factory Design and Layout	09 Hours
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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, Product and combined layout Design requirement – requirements relating to health, safety and Welfare. Balancing – Steps to balance the line - Initial balance - Balance control - Efficiency – Cycle checks - Balancing tools.

Unit - IV	Principles of Costing	09 Hours
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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 - V	Garment Export Unit	09 Hours
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Performance of Indian Garment Export and Institutions supports 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, AJ Chester 2ndEdition,Wrenbury Associates Ltd, 1998.
2. The technology of clothing manufacture, Harold Carrand Barbara Latham, Blackwell Science, 1994
3. Apparel Costing, A functional Approach – Krishnakumar .M, Abishek Publications, Chandigarh, 2011.

Reference Books:

1. Principles of Management, Dinakar Pagare, Sultan Chand and Sons, Delhi, 2018.
2. Entrepreneurship Development in India, Dr. C.B Gupta, Dr N.P. Srinivasan, Sultan Chand and Sons Delhi, 1997.
3. IndustrialEngineeringinApparelProduction,V.RameshBabu,WoodHeadPublishing,India, 2012.

Web Resources:

1. <https://lonelyentrepreneur.com/types-of-entrepreneurs/>
2. <https://lonelyentrepreneur.com/types-of-entrepreneurs/>

3. <https://www.fibre2fashion.com/industry-article/7665/the-organisation-of-a-clothing-factory>

Teaching Methodology: Videos, Audios, PPT, Role Play, Field Visit, Seminar, Chalk & Talk, Lecturing, Case Study, Demonstration, Problem Solving, Group Discussion, Flipped Learning

Learning Outcomes:

Upon successful completion of this course, the student will be able to

COs	Statements	Bloom's Level
CO1	Interpret the meaning of entrepreneur and management	K1
CO2	Understand the organizational structure of a garment unit	K2
CO3	Plan factory design and layout to suit the production needs	K3
CO4	Prepare cost sheet for a finished product	K4
CO5	Set up a garment unit by performing SWOC analysis	K5

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

Mapping (COs vs POs)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	L	M	M	S	S	S	S	M	L
CO2	M	M	M	S	M	S	S	M	S
CO3	S	M	L	S	S	S	S	M	S
CO4	S	L	M	S	S	M	M	M	M
CO5	S	L	M	S	S	M	L	M	M

S - Strong, M – Medium, L – Low