Holy Cross College (Autonomous), Nagercoil

Kanyakumari District, Tamil Nadu.

Accredited with A^{++} by NAAC - V cycle – CGPA 3.53

Affiliated to

Manonmaniam Sundaranar University, Tirunelveli

Teaching Plan 2025-2026 (Even Semester)

DEPARTMENT OF COSTUME DESIGN AND FASHION

Vision

The vision of our department is to enlighten and educate the youth with the current fashionand transform them to become trend setters in fashion designing in order to respond creatively to global markets towards sustainable development.

Mission

1. To impart quality education and promote activities with global competencies.
2. To encourage participatory involvement and develop their potentials in designs and structure.
3. To prepare professional and entrepreneurs for fashion industry.
4. To adopt new technologies and develop garments to protect health.
5. To interconnect fashion with eco-friendly product and promote global market.

Graduate Attributes

Graduates of our College develop the following attributes during the course of their studies.

- **Creative thinking:**
  Equipping students with hands-on-training through skill-based courses and promote startup.
- **Personality development:**
  Coping with increasing pace and change of modern life through value education, awareness on human rights, gender issues and giving counselling for the needful.
- **Environmental consciousness and social understanding:**
  Reflecting upon green initiatives and understanding the responsibility to contribute to the society; promoting social and cultural diversity through student training and service-learning programmes.
- **Communicative competence:**
  Offering effective communication skills in both professional and social contexts through bridge courses and activities of clubs and committees.
- **Aesthetic skills:**
  Engaging mind, body and emotions for transformation through fine arts, meditation and exercise; enriching skills through certificate courses offered by Holy Cross Academy.
- **Research and knowledge enrichment:**
  Getting in-depth knowledge in the specific area of study through relevant core papers; ability to create new understanding through the process of critical analysis and problem solving.
- **Professional ethics:**
  Valuing honesty, fairness, respect, compassion and professional ethics among students. The students of social work adhere to the *National Association of Social Workers Code of Ethics*
- **Student engagement in the learning process:**
  Obtaining extensive and varied opportunities to utilize and build upon the theoretical and empirical knowledge gained through workshops, seminars, conferences, industrial visits and summer internship programmes.
- **Employability:**
  Enhancing students in their professional life through Entrepreneur development, Placement & Career guidance Cell.
- **Women empowerment and leadership:**
  Developing the capacity of self-management, team work, leadership and decision making through gender sensitization programmes.

Programme Educational Objectives (PEOs)

PEOs	Upon completion of B.A/B.Sc. Degree Programme, the graduates will be able to	Mapping with Mission
PEO1	apply appropriate theory and scientific knowledge to participate in activities that support humanity and economic development nationallyand globally, developing as leaders in their fields of expertise.	**M1& M2**
PEO2	use practical knowledge for developing professional empowerment and entrepreneurship and societal services.	**M2, M3, M4 & M5**
PEO3	pursue lifelong learning and continuous improvement of the knowledge and skills with the highest professional and ethicalstandards.	**M3, M4, M5 & M6**

Programme Outcomes (POs)

Pos	Upon completion of B.Sc. Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	obtain comprehensive knowledge and skills to pursue higher studies in the relevant field of science.	**PEO1**
PO2	create innovative ideas to enhance entrepreneurial skills for economic independence.	**PEO2**
PO3	reflect upon green initiatives and take responsible steps to build a sustainable environment.	**PEO2**
PO4	enhance leadership qualities, team spirit and communication skills to face challenging competitive examinations for a better developmental career.	**PEO1 & PEO3**
PO5	communicate effectively and collaborate successfully with peers to become competent professionals.	**PEO2 & PEO3**
PO6	absorb ethical, moral and social values in personal and social life leading to highly cultured and civilized personality	**PEO2 & PEO3**
PO7	participate in learning activities throughout life, through self-paced and self-directed learning to improve knowledge and skills.	**PEO1 & PEO3**

Programme Specific Outcomes (PSOs)

PSOs	Upon completion of B.SC Costume Design and Fashion the graduates will be able to:	Mapping with POs
PSO1	create innovative products in the fashion and textile industry by analyzing the textilematerials, styles, designs and client specifications to integrate new developments in fashion and textile industry through quality standards	**PO1 & PO3**
PSO2	apply the specialized skills to manage with the available indigenous materials for sustainability in textiles.	**PO1 & PO2**
PSO3	develop portfolio presentations from fibre to fashionable garments and exhibit the same through fashion shows to excel as fashion designers and globally competitive entrepreneurs	**PO2 & PO7**
PSO4	recognize and analyze every single person's personality that suits their clothing.	**PO4, PO5 & PO6**

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design & Fashion
Class : I B.Sc Costume Design & Fashion
Title of the Course : Core Course II: Pattern Making and Grading
Semester : II
Course Code : DU231CC1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU231CC1	4	-	-	5	4	75	25	75	100	4

Learning Objectives:

1. To enable the students to develop the ability to create design through flat pattern techniques.
2. To understand the pattern making and grading techniques and know about commercial pattern, fitting, alteration and layout methods.

Course Outcomes

COs	Upon completion of this course, students will be able to:	PSO addressed	CL
CO-1	explain and understand pattern making methods and commercial pattern	PSO - 1	K1&K2
CO-2	apply the Grading Techniques for different styles	PSO - 2	K3
CO-3	analyse the Pattern making Technology.	PSO - 3	K4
CO-4	evaluate and check the good fit of a garment.	PSO - 3	K5
CO-5	create the pattern with required style and measurement and grade them.	PSO - 3	K6

K1 - Remember; K2 - Understand; K – Apply; K4 - Analyse; K5 - Evaluate; K6 -Create

Teaching plan

Total Contact hours*: 25 (Including lectures, assignments and tests)

Unit	Module / Topic	Teaching Hours	Assessment Hours	Cognitive Level	Pedagogy	Student Centric Method	E-Resources	Assessment / Evaluation Methods
I – PATTERN MAKING METHODS								
1	Introduction to Pattern Making – Definition – Drafting, Draping & Flat Pattern Methods	1	1	K1 (R)	Lecture with PPT, Visual Aids	Think–Pair–Share, Concept Mapping	PPT, Video Lectures	MCQ Test, Oral Questions, CIA I, Short Test, Practical assignment, Worksheet, Slip Test, CIA I
2	Drafting principles – Steps in drafting children & adults bodice and sleeve patterns	3		K2 (U)	Demo + PPT	Peer teaching, guided practice	Demonstration Videos, Worksheets	
3	Flat Pattern Techniques – Pivot, Slash & Spread method	2	1	K2 (U)	Visualization method, Simulation	Group discussion, collaborative learning	PowerPoint diagrams & Simulation tools	
II – COMMERCIAL PATTERN								
1	Commercial Pattern – Birth, study & preparation of	1	1	K1 (R)	Interactive lecture + Samples	Case study, Q&A	Videos, Sample patterns	Open book test, Viva, CIA I, Practical Evaluation,

	commercial pattern							Assignment, Slip test, Quiz
2	Body Measurements – Importance & principles, methods for various garments	2		K2 (U)	Demonstration	Hands-on measurement activity	Measurement videos, charts	
3	Pattern Symbols & Notches; Pattern Markings	2	1	K2 (U)	Demo + Visual explanation	Practice based learning	Pattern templates	
III – PATTERN LAYOUT								
1	Pattern layout – Rules in pattern layout, common methods	1	1	K2 (U)	Lecture with PPT	Brainstorming, Concept mapping	PPT, Notes	MCQ Test, Discussion, CIA II, Practical assignment, Group Review, Problem-solving evaluation
2	Layout for asymmetrical, bold, checks & one-way design	2		K3 (Ap)	Demonstration	Collaborative task	Layout boards, Fabric samples	
3	Economy of fabric – Adjusting fabric for limited quantity	2	1	K4 (An)	Case-based learning	Group problem solving	Digital layout videos	
IV – FITTING & ALTERATION								

1	Fitting – Definition, Principles for good fit	1	1	K2 (U)	Real garment fitting demo	Peer feedback	Sample garments, PPT	Practical Evaluation, Viva, CIA II, Case study, Quiz, Slip Test, Assignment, CIA II
2	Causes for poor fit – checking fit of garment	2		K4 (An)	Demonstration & analysis	Peer review & critical analysis	Fitting videos	
3	Pattern alteration – importance, principles for altering patterns	2	1	K5 (E)	Demonstration / PPT	Group critique evaluation	Alteration worksheets	
V – PATTERN GRADING								
1	Grading – Definition, types – Manual & computerized	1	1	K3 (Ap)	Interactive lecture + PPT	Think–Pair–Share	PPT, Software simulation videos	MCQ, Discussion, Practical assignment, Peer review, Practical evaluation & viva
2	Manual grading – Master grade, Basic back, front, collar	2		K6 (C)	Demonstration	Individual project	Instructional videos, Templates	
3	Computerized grading technology – System description & process	1	1	K4 (An)	ICT–based teaching	Hands–on CAD demonstration	Videos on CAD software	

Total Teaching hours include 25 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development:

Activities (Em/ En/SD):

1. Grading practice using CAD tools
2. Development of custom size commercial patterns

Assignment

1. Create a bodice block and sleeve pattern
2. Manual grading of basic bodice

   (Last date to submit – 07-01-2026)

Seminar Topics

1. Flat Pattern Techniques: Pivot, Slash & Spread Method
2. Commercial Pattern Preparation and Symbols
3. Manual vs Computerized Grading Techniques

Part A (1 mark)

Choose the correct answer

1. Pattern making is the process of _____ (K1-R, CO-1)

   a) Stitching garment pieces b) Converting design into template pieces c) Cutting fabric manually d) Preparing fabric for dyeing
2. The method of pattern making that uses body measurements is _____ (K1-R, CO-1)

   a) Draping b) Drafting c) Flat Pattern d) Grading
3. The process of increasing or decreasing the size of a pattern is known as _____ (K2-U, CO-2)

   a) Spreading b) Seam allowance c) Grading d) Marking

4. The technique used to expand a pattern using pivoting lines is _____ (K2-U, CO-1)

   a) Slash and Spread b) Draping c) Seaming d) Stitching

5. A commercial pattern is _____ (K1-R, CO-1)

   a) A hand-drawn pattern b) A ready printed standard size pattern c) A fabric cutting layout d) A design sheet

6. The essential step before drafting a bodice block is _____ (K2-U, CO-1)

   a) Stitching b) Calculating grainline direction c) Taking body measurements d) Pressing fabric

7. Which one of the following tools is used in drafting? (K1-R, CO-1)

   a) Loop turner b) French curve c) Safety pin d) Needle

8. Pattern layout refers to _____ (K1-R, CO-3)

   a) Placing pattern pieces on fabric for cutting b) Printing fabric c) Checking garment fit d) Preparing grading sheet

9. Fitting refers to _____ (K2-U, CO-4)

   a) The process of assembling garment pieces b) Checking and adjusting garment on body form c) Cleaning the garment

   d) Finishing seams

10. The basic foundation pattern used for grading is called _____ (K2-U, CO-5)

    a) Draft b) Draping form c) Master Grade d) Layout board

Part – B (6 mark)

1. Explain the principles of drafting. (K3-Ap, CO-1)
2. Write short notes on Pivot and Slash and Spread methods. (K3-Ap, CO-1)
3. Describe the preparation of commercial patterns. (K4-An, CO-1)
4. Explain the importance and method of taking body measurements. (K3-Ap, CO-1)
5. Discuss rules of pattern layout. (K4-An, CO-3)

6. Explain causes for poor fit and solutions. (K4-An, CO-4)
7. Explain the importance of pattern alteration. (K3-Ap, CO-4)
8. Explain the common methods for layout with examples. (K4-An, CO-3)
9. Describe fitting techniques adopted in garment construction. (K4-An, CO-4)
10. Write short notes on manual grading techniques. (K3-Ap, CO-5)

Part – C (12 mark)

1. Explain in detail the drafting procedure of children's basic bodice and sleeve. (K6-Cr, CO-1)
2. Write in detail the drafting steps for adult bodice block. (K6-Cr, CO-1)
3. Elaborate the different pattern layout methods used in industry. (K5-Ev, CO-3)
4. Explain in detail the fitting problems in garments and corrective measures. (K5-Ev, CO-4)
5. Describe in detail the computerized grading process. (K4-An, CO-5)
6. Explain manual grading steps for front and back bodice with diagrams. (K6-Cr, CO-5)
7. Write in detail the methods and applications of Flat Pattern Technique. (K4-An, CO-1)
8. Explain in detail the importance and process of pattern alteration. (K5-Ev, CO-4)
9. Describe the drafting principles and tools used in pattern making. (K6-Cr, CO-1)
10. Write in detail the pattern layout rules for asymmetrical, checks and bold printed fabrics. (K4-An, CO-3)

Head of the Department

Course Instructor

SEMESTER II

CORE LAB COURSE : CHILDERN'S WEAR
Course Code: DU243CP1

Hours/Week	Credits	Total hours	Marks
3	**3**	**45**	**100**

Learning Objectives:

- To make designs and patterns for various style of children's wear, practice suitable layout methods for the effective utilization of fabric
- To apply various sewing techniques for achieving the finest garment finishing.

Course Outcomes

Upon the successful completion of the course, students will be able to:		**Cognitive Level**
1	describe and understand the measurements needed for construction of children's wear	**K1 and K2**
2	apply the layout and measurement methods to make kid's garments	**K3**
3	analyze the various material suitable for constructing children's wear	**K4**
4	evaluate the various design of children's wear	**K5**
5	create new designs for kids garments	**K6**

Teaching Plan with Modules

Total hours: 45 (Practical- Demonstration, Display, Test)

Unit	Section	Topics	Hours	Cognitive Level	Pedagogy	Assessment/ Evaluation
I	1	Introduction to construction	1	K2 and K3	Lecture with PPT and Discussion	Assignment
	2	Guidelines to body measurements	1	K2 and K3	Experimental learning	Discussion and Display of Product

	3	Tools for clothing construction	1	K2 and K3	Demonstration	Discussion and Observation
	4	Basic stitches	1	K4 and K6	Experiential Learning	Presentation and Display
	5	Drafting, cutting and construction of bib	1	K1, K3 and K6	Demonstration	Presentation and Display
	6	Drafting, cutting and construction of panty	1	K2 and K3	Demonstration	Presentation and Display
II	1	Jabla – I without sleeve front open	2	K2 and K3	Experiential Learning, Lecture with PPT	Observation, Display of the Product
	2	Jabla – II with back open	2	K2 and K3	Lecture and Discussion	Display of the Chart, Observation
	3	A-Line petticoat neckline and armhole with bias facing	3	K2, K3, K4 and K6	Demonstration and Learning	Observation and submission of drafting Quiz – I 1st Internal
	4	A-line petticoat with double point dart and gathers at waist	2	K2, K3, K4 and K6	Demonstration and Learning	Observation and submission of samples
III	1	Yoke frock drafting	2	K3 and K4	Demonstration and Experimental Learning	Submission of samples
	2	Cutting and construction of yoke with back	2	K3 and K4	Experimental Learning	Observation and Demonstration Revision - I

		open, puff sleeve, yoke at chest and gathers				
	3	Princess frock without sleeve, circular skirt at waist with back open	2	K3 and K6	Lecture with PPT and Experiential	Demonstration and Display
	4	Umbrella frock-body drafting, cutting and construction of frock with round skirt sleeveless	3	K3 and K6	Experiential Learning	Demonstration and Display
IV	1	Drafting summer frock	2	K3 and K4	Discussion and Experimental Learning	Submission Class Test – 2 Quiz – 2
	2	Cutting and construction of Summer frock with strap	2	K3 and K6	Demonstration	Assignment and Submission
	3	Drafting of knicker	2	K3 and K6	Discussion and Presentation (PPT)	Observation and Submission (2nd Internal test)
	4	Cutting and construction of knicker with elastic and side packets	3	K3 and K6	Discussion and Presentation (PPT)	Observation and Submission
V	1	Drafting of shirt	2	K2 and K3	Demonstration and Display	Submission and Revision – II Quiz – III
	2	Cutting and construction of skirt with open collar with pocket	3	K2 and K3	Experimental Learning	Observation and Submission

	3	Drafting of pinafore	2	K2 , K3 and K6	Experiential Learning	Submission of records and samples Revision – III
	4	Cutting and construction of pinafore with two strap and belt	2	K3 , K4 and K6	Observation, Demonstration and Submission	Submission of records and samples Model Exam

Model – 1

Time: 3 hours **Marks: 75**

1. Draft and construct **"Bib"** with variation in outline shape by using the following measurements.

Features:
Knot
Rope attached
Applique

Measurements:
length = 23 (9inch)
Width = 18 (7inch)

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2. Draft and construct **"Panty"** by introducing the following features using the given measurements.

Features:
Elastic

Measurements:
Hip Round =60cm (24")
Panty length = 23cm (9'')
Seat round = 65 cm

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3. Design, draft and construct **"Jabla-I"** with the following features and measurements.

Features:
Close neck with open
Sleeveless
Lace

Measurements:
Full length =35cm (14'')
Chest round =50cm (20'')
Back width = 20cm (8'')
Neck round = 25cm (10'')

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4. How will you draft and construct **"A-line petticoat"** following the given measurements and introducing different features.

Features:
Sleeveless
Hook

Measurements:
Chest = 56 cms
Full Length = 46 cms
Shoulder width =30 cms

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5. Draft, cut and stitch the **"Yoke Frock"** using the following measurements and applying the features.

Features:	**Measurements:**
Lace	Frock Length =45 cm
Bow	Chest round =50 cm
Button	Bodice Length =10 cm
	Shoulder = 11.5 cm
	Shoulder width =24 cm
	Sleeve length = 12 cm
	Sleeve round = 16.5 cm

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6. Design and construct the **"Umbrella Frock"** for five year old girl with the given measurements and features.

Features:	**Measurements:**
Lace	Full Length =66 cms.
Different Neck line	Chest round =60cms
	Waist round =56cms
	Waist Length =25 cms
	Shoulder width =14 cms
	Sleeve length = 15 cms
	Sleeve round =19 cms

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7. Design and construct the **"Knicker (Shorts)"** with the given measurements and features.

Features:	**Measurements:**
Elastic	Full length =38cm (15")
Belt Hook	Waist round =60cm (24")
	Seat round = 72 cm
	Bottom round = 56cm (22")
	Belt width = 5cm (2.5")

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8. Draft, cut and stitch the **"Summer Frock"** using the following measurements and applying the features.

Features:	**Measurements:**
Lace	Chest round =50cm (20")

Piping Elastic	Full length =46cm (18”)
Bow	

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9. Design and construct the **“Plain Skirt”** with the given measurements and features.

Features:	**Measurements:**
Front belt	Full length = 55cm
Fancy Button	Seat =92cm (36”)
	Waist =66cm (26”)
	Belt width =4cm (1 1/2 “)

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10. Draft and construct **“Pleated Skirt”** by introducing the following features using the given measurements.

Features:	**Measurements:**
Hook attached	Full length = 91cm
Lace	Waist =78 cm

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11. Design, draft and construct **“Jabla-II”** with the following features and measurements.

Features:	**Measurements:**
With Sleeve	Full length = 30cm
Boat neck with open	Chest round = 36cm
Patch work	

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12. Design and construct the **“Umberlla Skirt”** with the given measurements and features.

Features:	**Measurements:**
Round Skirt	Full Length =45 cm
Front Belt	Waist Round =56 cm
Back Elastic	Belt Width =5 cm

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13. Design and construct the **“Pinafore”** with the given measurements and features.

Features:	**Measurements:**
Plackets	Chest =60 cm (24”)
Fancy Button	Bodice length = 30 cm (12”)
	Full length =68.5 cm (27”)

Shoulder =12.5 cm(5”)

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14. Design and construct the **“Boys Shirt”** with the given measurements and features.

Features:	**Measurements:**
Open Collar	Chest =56 cm (22”)
With pocket	Full Length =37 cm (14 ½”)
	Shoulder =12.5 cm (5”)
	Sleeve with shoulder = 26 cm (10”)

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15. Draft, cut and stitch the **“Summer Frock”** using the following measurements and applying the features.

Features:	**Measurements:**
Lace	Chest round =50cm (20”)
Piping Elastic	Full length =46cm (18”)
Bow	

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16. Draft, cut and stitch the **“Yoke Frock”** using the following measurements and applying the features.

Features:	**Measurements:**
Lace	Frock Length =45 cm
Bow	Chest round =50 cm
Button	Bodice Length =10 cm
	Shoulder = 11.5 cm
	Shoulder width =24 cm
	Sleeve length = 12 cm
	Sleeve round = 16.5 cm

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17. Design and construct the **“Umbrella Frock”** for five year old girl with the given measurements and features.

Features:	**Measurements:**
Lace	Full Length =66 cms.
Different Neck line	Chest round =60cms
	Waist round =56cms
	Waist Length =25 cms
	Shoulder width =14 cms

Sleeve length = 15 cms
Sleeve round =19 cms

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18. Design and construct the **"Umberlla Skirt"** with the given measurements and features.

Features:	**Measurements:**
Round Skirt	Full Length =45 cm
Front Belt	Waist Round = 56 cm
Back Elastic	Belt Width = 5 cm

SCHEME OF VALUATION

		Marks	
I.	Drafting Procedure	-	10
	Pattern Drawing	-	5
	Construction Details	-	10
	Construction of Garments	-	20
	Final Appearance	-	5
II.	Viva	-	5
	Records	-	10
	Submission of Samples	-	10
	Total	**-**	**75**

PATTERN OF EXAMINATION

I.	Major Practical	-	50
II.	Viva	-	05
III.	Record	-	10
IV.	Samples Submitted	-	10
	Total	**-**	**75**

Course Instructor
Dr. Sr. Mary Gilda

Head of the Department
Mrs. Menaka

HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL
DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : I B.Sc. Costume Design and Fashion
Title of the Course : Elective Course III: Technology of wet processing
Semester : II
Course Code : DU233EC1

Course Code	L	T	P	Credits	Inst. Hours	Total Hours	Marks		
							CIA	External	Total
DU233EC1	3	-	-	-	3	4	25	75	100

Objectives

1. To know the concept of textile processing in cotton, silk, wool and synthetic materials.
2. To explain about the preparatory process

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the principles and mechanisms of sequence of process in textile wet processing	**K1**
2	explain the various process in textile industry.	**K2**
3	apply the dyeing, printing and finishing techniques in textile industry.	**K3**
4	analyze the materials and equipment used in textile processing.	**K4**
5	evaluate and create the various textile wet processing involves in textile industry.	**K5&K6**

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

Teaching plan
Total Contact hours*: 75 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**PREPARATORY PROCESS**								
	1	Preparatory processes	1	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching ,Gamified Quiz, Concept Mapping	Video Lectures,	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	2	Typical sequence of wet processing.	1		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching ,Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
	3	Singeing – objects and types of Machines.	1	1	K2(U)	Lecture with visualization, Concept-based discussion	Collaborative Learning Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment, CIA I.

	4	Desizing – objects, types.	2	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning Peer Teaching Gamified Quiz, Concept Mapping	Video Lectures	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	5	Scouring - objects and processes carried out during scouring.	3		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching ,Gamifie d Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
	6	Wet processing equipment – Kier, J – Box, Stenter.	3		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching Gamified Quiz, Concept Mapping	PowerPoint with graphical representatio ns of coordinate systems	Oral Quiz, slip test, Assignment, CIA I.
	7	Bleaching – Definition and objectives, bleaching methods using Hypo chlorites, hydrogen peroxide, Sodium chlorite.	4	1	K2(U)	Lecture with visualizati on, Concept-based discussion	Collabor ative Learning Concept Mapping	Video Lectures	Presentation, homework, creative writing, group discussion, CIA II

	8	Mercerization- Theory process, Methods – Chain and Chainless process	4		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Peer Review, Online assignment, Group Discussion, CIA II
II	**DYEING METHODS**								
	1	Dyeing– Definition, Theory of dyeing, Properties required for dye stuff, classification of colorants.	5	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching ,Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA I
	2	Classification of colorants.	2		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Written Assignment- Oral Presentation, CIA I
	3	Dyeing procedure using various dye stuffs – Direct dyes, Reactive dyes, Acid dyes, basic dyes, Azo dyes, Vat dyes,	10	1	K2(U)	Lecture with visualizati on,	Collabor ative Learning , Concept Mapping	PowerPoint with graphical representatio ns of	Peer Review, Student presentation, Quiz qustioning CIA I

		Sulphur dyes, Disperse dyes.				Concept-based discussion		coordinate systems	
	4	Yarn dyeing, Package dyeing, Fabric dyeing and Garment dyeing	4		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA
III	**PRINTING AND ITS METHODS**								
	1	Printing – definition differentiate dyeing and printing.	2	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lectures,	MCQ, Discussion, Fill-in-the-blank, CIA II
	2	Essential ingredients used in printing paste.	4	1	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Open Book Test, Assignment Oral Viva CIA II

	3	Basic styles of printing – direct, Discharge, Resist style.	4		K2(U)	Lecture with visualization, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Home work, Assignment, group discussion, peer review, CIA II
	4	Printing of Cellulose Fabric, Printing of Polyester and Nylon.	5	1	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Peer Review, Online assignment, Group Discussion, CIA II
	5	Printing methods – Stencil, Batik, Block, tie and Dye.	3		K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	MCQ, Discussion, Fill-in-the-blank, CIA II
	6	Printing techniques in Industries – Screen, Hand screen, Flat Screen, Rotary Screen, Transfer Printing.	4	1	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation	Based Learning, Peer Teaching, Gamified Quiz,	Video Lecture, Simulation Tool, Interactive Notes,	Open Book Test, Assignment Oral Viva CIA II

						-Based Learning	Concept Mapping		
1V	**AESTHETIC OF FINISHING**								
	1	Introduction to finishing – Definition, Importance, Classification. Mechanical Finishing	2	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping .	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Sanforising – calendaring, Brushing – Decating, Milling	4		K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II
	3	Chemical finishing, wash and wear finishing, durable finish, Stiff Finish, Denim Finish,	4	1	K2(U)	Lecture with visualization, Concept-based discussion ,	Collaborative Learning , Concept Mapping	PowerPoint with graphical representations of coordinate systems	Presentation, homework, creative writing, group discussion,CIA II

	4	Application of silicones in finishing processes	2		K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Quiz, class test, Brainstroming, Peer review, CIA II
V	**FUNCTIONAL FINISHING**								
	1	Functional finishes , Water proof finishes, Water repellent finish, Flame retardant finish, Soil release finish, Antimicrobial finish	7	1	K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping .	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Nano Technology in Textile finishing	4		K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II

Total Teaching hours include 75 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development

Activities (Em/ En):

- Collecting different types of Dyes in Natural Fibres

- Collecting Different types of Dyes in manmade fibres

Assignment (Em/ En):

- Print the natural fabric using Tie and Dye
- Print the natural fabric using Block Printing

(Last date to submit – 03-03-2026)

Part A (1 mark)

1. ._____ remove the short fibers from the textile materials. (K1-R, CO-1)
   a Sizing C Scouring b Singeing D Bleaching
2. The process by which the natural color of a fiber can be removed and make the textile material pure white and bright is called _____. (K1-R, CO-1)
   a Scouring d Singeing c. De-sizing d. Bleaching
3. Acid dyes are mainly applied on _____ fabric. (K2-U, CO-2)
   a Wool b Cotton c Hemp d Jute
4. _____ dye is commonly used for natural material. (K1-R, CO-1)
   a Acid b. Vat c. Direct d Azoic
5. _____ the yarn are dyed first before the fabric manufacturing stage. (K1-R, CO-1)
   a Loose dyeing b Yarn dyeing c Fabric dyeing d. Garment dyeing
6. _____ dyeing refers to the process of coloring ready-to-wear cloths. (K2-U, CO-2)
   a Loose dyeing b Yarn dyeing c Fabric dyeing d Garment dyeing
7. _____ is a pre-treatment for printing of cotton. (K1-R, CO-1)
   a Sanforizing b. Scouring b Fixing D Calendaring
8. Squeegee is used in _____ printing. (K2-U, CO-2)
   a Screen b Stencil c Roller d Block
9. _____ is a hand textile printing. (K1-R, CO-1)
   a Stencil b. Tie and dye c. Batik d. All the above
10. 10. _____ dye is commonly used for (K1-R, CO-1)
    a.Tie and dye and batik b. Reactive c. Vat d. Acid Azoic

Part B (6 mark)

11 Write in detail about the objectives and the types of singeing process (K1-R, CO-1)

12. Describe the scouring process with neat diagram. (K3-Ap, CO-3)

13. Write short note on classification of colorant and its properties. (K1-R, CO-1)

14. Explain about the direct dye and its procedure. (K1-R, CO-1)

15. Describe the loose cotton fibre dyeing with neat diagram. (K2-U, CO-2)

16. Write short notes on yarn dyeing with neat diagram. (K2-U, CO-2)
17. Discuss in details about the the essential ingredients used in printing paste. (K3-Ap, CO-3)
18. Different between dyeing and printing. (K2-U, CO-2)
19. Explain the methods of hand printing techniques. (K3-Ap, CO-3)
20. Describe in detail about the transfer printing. (K2-U, CO-2)

Part C (12 marks)

21. Elaborately explain the methods of bleaching process with neat diagram. (K3-Ap, CO-3)
2. Explain the types of mercerization with neat diagram. (K1-R, CO-1)
3. Discuss about theory of dyeing. (K1-R, CO-1)
4. Elaborately explain the procedure for vat and acid dyes. (K3-Ap, CO-3)
5. Elaborately explain the fabric dyeing and garment dyeing process. (K3-Ap, CO-3)
6. Explain the package dyeing process with neat diagram. (K3-Ap, CO-3)
7. Elaborately explain the printing of cellulosic fabric (K2-U, CO-2).
8. Brief study on the printing of silk and wool fabric (K2-U, CO-2)
9. Explain the different types of tie and dye techniques. (K2-U, CO-2)
10. Explain in details about hand screen printing. (K2-U, CO-2)

Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF COSTUME DESIGN & FASHION (S.F)
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL 629 004

Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL
DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : I B.Sc. Costume Design and Fashion
Title of the Course : Elective Lab Course III: Technology of wet processing Laboratory
Semester : II
Course Code : DU233EP1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours		
							CIA	CIA	Total
DU242EP1	-	-	2	-	2	2	30	25	DU242EP1

Objectives:

1. To know the concept and do the Pretreatments in textile processing
2. To Know and apply the different types of dyeing process based on the suitability of fabric

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify the preparatory process of the textile material	**K1**
2	demonstrate various kinds of dyeing techniques	**K2**
3	apply skills in different methods of printing and their techniques	**K3**
4	analyze and evaluate the dyes used for suitable fabrics	**K4**
5	evaluate and create different samples by using different styles of printing.	**K5 & K6**

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

Teaching plan

Total Contact hours*: 45 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**PREPARATION OF SAMPLES FOR PROCESSING**								
	1	Color Fastness to Washing	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	2	Color Fastness to Laundrometer	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	3	Color Fastness to Light	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
II	**PREPARATION OF SAMPLES FOR PROCESSING**								
	4	Desizing	2		K3(Ap)	Lecture with Visual Aids such as	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive	Evaluation through Practically sample Submission

						Demonstration		with observation	
	5	Scouring	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	6	Peroxide Bleaching	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	7	Hypochlorite Bleaching	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	8	Mercerizing	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
III	**PREPARATION OF SAMPLES USING SUITABLE DYES**								
	9	Direct Dye (Any two Natural Dyes)	2		K3(Ap)	Lecture with	Based Learning,	Video Lecture,	Evaluation through Practically sample Submission

						Visual Aids such as Demonstration	Hands-On Demonstration.	Simulation Tool Interactive with observation	
	10	Hot Brand Reactive Dyes	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	11	Cold Brand Reactive Dyes	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
IV	**PREPARATION OF SAMPLES USING SUITABLE DYES**								
	12	Acid Dyes .	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	13	Basic Dyes	2	1	K3(Ap)	Lecture with Visual Aids such as	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive	Evaluation through Practically sample Submission

						Demonstration		with observation	
	14	Sulphur Dyes	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	15	Vat Dyes	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
V	**PRINT THE GIVEN FABRIC BY FOLLOWING PRINTING TECHNIQUES**								
	16	Batik	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	17	Block and Stencil	2		K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission
	18	Tie and Dye	2	1	K3(Ap)	Lecture with	Based Learning,	Video Lecture,	Evaluation through Practically sample Submission

						Visual Aids such as Demonstration	Hands-On Demonstration.	Simulation Tool Interactive with observation	
	19	Hand Screen Printing	2	1	K3(Ap)	Lecture with Visual Aids such as Demonstration	Based Learning, Hands-On Demonstration.	Video Lecture, Simulation Tool Interactive with observation	Evaluation through Practically sample Submission

Total Teaching hours include 45 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development: Employability/Entrepreneurship/Skill Development

Activities (Em/ En/SD):

Print the given fabric in various types of Design

1. Tye and Dye
2. Block Printing
3. Hand Screen Printing
4. Batik Printing

Assignment

1. Procedure and importance of Color Fastness Testing (Washing, Crocking, Perspiration, and Light)
2. Methods to calculate fabric GSM, thickness and bow & skew measurement with examples

(Last date to submit –: (03-02-2026)

ALLOCATION OF MARKS EXTERNAL MARKS (75 MARKS)

a. Procedure	:	30 Marks
b. Sample	:	20 Marks
c. Calculation	:	5 Marks
d. Result	:	5 Marks
e. Record	:	10 Marks
f. Viva- Voce	:	5 Marks
Total	:	75 Marks

Sample questions

I a. De-sized the given grey fabric using suitable chemicals. (K3-Ap, CO-3)
b. Prepare a stencil card &Design a fabric using stencil printing. (K3-Ap, CO-3)

II a. Scoured the given fabric & calculate the efficiency of scouring. (K3-Ap, CO-3)
b. Prepare a Tie & Dye sample using straight-line effect. (K3-Ap, CO-3)

III a. Bleach the given fabric using hydrogen peroxide. (K3-Ap, CO-3)
b. Prepare any design using vegetables. (K3-Ap, CO-3)

IV a. Dye the given fabric sample using direct dyes in 8%. (K3-Ap, CO-3)
b. Prepare the given fabric sample using any block printing. (K3-Ap, CO-3)

V a. Dye the given fabric sample using Cold Reactive dyes 8%. (K3-Ap, CO-3)
b. Prepare a Tie & Dye sample using coins effect. (K3-Ap, CO-3)

VI a. Dye the given fabric sample using Hot Reactive dyes 8%. (K3-Ap, CO-3)
b. Prepare a Batik sample using any one technique. (K3-Ap, CO-3)

VI a**.**Prepare the given sample using colour fastness to washing. (K3-Ap, CO-3)
b.Prepare a Tie & Dye sample using coins effect. (K3-Ap, CO-3)

VII a. Prepare the given sample using colour fastness to Laundrometer. (K3-Ap, CO-3)
b. Prepare a stencil card &Design a fabric using stencil printing. (K3-Ap, CO-3)

VII a. Prepare the given sample using colour fastness to Light. (K3-Ap, CO-3)
b. Prepare a Tie & Dye sample using straight-line effect. (K3-Ap, CO-3

Head of the Department

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Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design & Fashion
Class : I B.Sc Costume Design & Fashion
Title of the Course : NME 2: Surface Embellishment
Semester : II
Course Code : DU232NM1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242NM1/DU232NM1	1	1	-	-	2	2	30	25	75	100

Objectives

1. To inherit embroidery skills by hand and machine
2. To appreciate the beauty and intricacies of the traditional embroideries of India

Course Outcomes

On the successful completion of the course, student will be able to:		
1.	study the hand embroidery samples.	**K1**
2	develop samples using surface enrichment	**K2**
2.	apply the machine embroidered samples in various fabric	**K3**
4.	analyse and evaluate samples for drawn thread embroidery, applique, quilting	**K4& K5**
5.	create added structural effects using smocking.	**K6**

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

Teaching plan

Total Contact hours*: 30 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**HAND EMBROIDERY STITCHES**								
	1	Hand embroidery Stitches – Running, Stem, Back, Whipped, Blanket, Lazydaisy, Chain, Double chain, Couching, Herringbone, Fish bone, Feather – single and double.	8	1	K3(Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
II	**KNOTS & ITS TYPES**								
	1	Rumanian, Cross, Fly, Satin, Long And Short, French Knot, BullionKnot, Double Knot, Seed, Straight, Lettering – Alphabets and Monogram Work	8	1	K3(Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
III	**TRADITIONAL INDIAN EMBROIDERY**								
	1	Kashida of Kashmir, Kantha of Bengal, Phulkari of Punjab, Embroidery of Kutch and Kathiawar, Zari embroidery, Kasuti of Karnataka, Chikankari of Luck now	8	1	K3(Ap)	Lecture with visualization, Concept-based discussion		PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment, CIA II.

IV	**SURFACE TRIMMINGS AND DECORATIONS**								
	1	Creating style through surface trimmings and Bias trimmings, Ric-Rac, Ruffles, Smocking, Faggoting, Drawn thread work, Cutwork, Belts and Bows	8	1	K6(C)	Lecture with Visual Aids such as PPT, Simulation -Based	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture	Presentation, homework, creative writing, group discussion, CIA II
V	**QUILTING, PATCH WORK, APPLIQUE WORK:**								
	1	Velvet, plain, printed appliqué. Mirror work, Sequins, patch work, Bead work, Shadow work, Fabric painting –using Fabric Colors, Glitters,Pastes	4	1	K3(Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA II
	2	Fabric painting –using Fabric Colors, Glitters,Pastes	4		K2(U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Written Assignment- Oral Presentation, CIA II

Total Teaching hours include 40 hours allotted for Formative and Summative Assessments

Course Focussing on Entrepreneurship/ Skill Development: Entrepreneurship/Skill Development Activities (En/SD):

1. Demonstrate various types of Stitches

2. Demonstrate various types of Embroidery stitches.

Assignment (En/SD):

1. Types of different types of stitches.
2. Common Problems in different types of embroidery and their Remedies.

(Last date to submit – 03-03-2026)

Sample questions

PART: A (Two Marks)

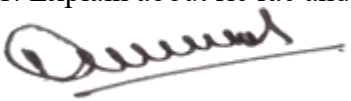
1. What do you mean by applique work (K1 – R, CO-1)
2. How could you define Embroidery (K2 – U, CO-2)
3. List out the advantages of Zari Embroidery (K2 – U, CO-2)
4. What is meant by Ruffles (K1 – R, CO-1)
5. List out the uses of fabric colours (K2 – U, CO-2)

Part - B (Four marks).

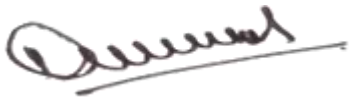
6. Write short notes on feather stitch and fish bone. (K1 – R, CO-1)
7. Explain about types of trimmings. (K2 – U, CO-2)
8. Write short notes on preparation of fabric painting. (K1 – R, CO-1)
9. Give short notes on phulkari of Punjab. (K2 – U, CO-2)
10. What are the types and motifs used for kasuti work. (K1 – R, CO-1)
11. Write on the working procedure of fishbone stitch with neat diagram. (K2 – U, CO-2)
12. Write short notes on cut work with diagram. (K1 – R, CO-1)
13. Write short notes on drawn thread work with diagram(K2 – U, CO-2)

Part - C Answer any Five Questions (5 X 8 = 40 marks),

14. Explain about Kashida of Kashmir. (K1 – R, CO-1)
15. Briefly explain about Chikankari of Lucknow with example (K1 – R, CO-1)
16. Explain in detail about French knot and bullion knot. (K1 – R, CO-1)
17. Briefly explain about fishbone and herringbone. (K2 – U, CO-2)
18. Explain about machine embroidery stitches of eyelet and cutwork. (K2 – U, CO-2)
19. Explain about the following, i) Mirror work ii) Bead work iii) Sequins work. (K2 – U, CO-2)
20. Different between cutwork and eyelets with neat diagram. (K2 – U, CO-2)
21. Explain about ric rac and ruffles with neat diagram. (K2 – U, CO-2)



Head of the Department



Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL
DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : II B.Sc. Costume Design and Fashion
Title of the Course : Core Course IV: Dynamics of Fashion
Semester : IV
Course Code : DU244CC1

Learning Objectives

1. To understand the origin, evolution, and significance of fashion.
2. To identify different types of designers and their sources of inspiration.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	identify different types of silhouettes such as natural body, slim line, wedge, etc.	**K1 & K2**
2	apply knowledge of the designer's role in the fashion industry	**K3**
3	examine the factors influencing the movement of fashion.	**K4**
4	evaluate the sources of design inspiration and their impact on creativity	**K5**
5	develop a strategic business model inspired by global fashion brands	**K6**

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

Teaching plan
Total Contact hours*: 75 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**ORIGIN OF FASHION**								
	1	Origin of Fashion	1	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	2	Importance of Fashion	1	–	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
	3	Development of Fashion	1	–	K2 (U)	Lecture with visualization, Concept-based discussion	Collaborative Learning Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment, CIA I.

	4	Components of Fashion – Design details, Texture, Colour	2	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based LearningPeer Teaching Gamified Quiz, Concept Mapping	Video Lectures	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	5	Silhouettes – Natural, Slim, Wedge, Hourglass, Extreme Volume	3	–	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
II	**FASHION FOCUS**								
	1	Designer's Role	3	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA I
	2	Manufacturer's Role	_	–	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Written Assignment- Oral Presentation, CIA I

	3	Retailer's Role	3	–	K2 (U)	Lecture with visualization, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Peer Review, Student presentation, Quiz qustioning CIA I
	4	Scope of Fashion Business – Primary, Secondary, Retail	3	–	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Class Test, Discussion
	5	Auxiliary Level + International Designers Overview	3	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA I
III	**THE MOVEMENT OF FASHION**								
	1	Meaning & Movement of Fashion	3	1	K2 (U)	Lecture with visualization, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	MCQ, Assignment, CIA II
	2	Accelerating Factors	4	–	K2 (U)	Lecture with	Based Learning,	Video Lectures,	Class Test, Discussion

						Visual Aids such as PPT, Simulation -Based Learning,	Peer Teaching, Gamified Quiz, Concept Mapping		
	3	Retarding Factors	3	–	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Slip Test, Assignment
	4	Recurring Fashions	_	–	K2 (U)	Lecture with visualization, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz
	5	Predicting the Movement of Fashion	3	–	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Creative Task, CIA II
1V	**TYPES OF DESIGNERS**								
	1	High Fashion Designers	2	–	K2 (U)	Lecture with Visual	Based Learning, Peer	Video Lectures,	MCQ, Discussion

						Aids such as PPT, Simulation -Based Learning	Teaching, Gamified Quiz, Concept Mapping.		
	2	Stylist Designers	2	–	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Oral Quiz
	3	Freelance Designers	2	–	K2 (U)	Lecture with visualization, Concept-based discussion,	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Written Assignment
	4	Sources of Design Inspiration	3	1	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Creative Assignment, CIA II
	5	Indian Designers – Manish, Ritu Kumar, Ritu Beri	3	–	K2 (U)	Lecture with Visual Aids such	Based Learning, Peer Teaching,	Video Lecture, Simulation Tool,	Presentation

						as PPT, Simulation -Based Learning,	Gamified Quiz, Concept Mapping	Interactive Notes,	
V	**STUDY OF INTERNATIONAL FASHION CENTERS**								
	1	Fashion Centers – France, Italy, England	_	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task,
	2	Fashion Centers – Germany, Canada, New York	4	–	K2 (U)	Lecture with visualization, Concept-based discussion,	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Peer Review, Online assignment, Group Discussion,
	3	International Brands – Women's, Men's Wear	4	–	K3 (Ap)	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	4	Kidswear, Sportswear, Cosmetics & Accessories Brands	3	–	K3 (Ap)	Lecture with Visual Aids such	Based Learning, Peer Teaching,	Video Lecture, Simulation Tool,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II

						as PPT, Simulation -Based Learning,	Gamified Quiz, Concept Mapping	Interactive Notes,	

Total Teaching hours include 75 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development

Activities (Em/ En):

1. Skill Development: Identifying silhouettes, sketching basic fashion shapes.
2. Employability: Understanding fashion terminology used in industry.

Assignment (Em/ En):

1. Write a short note on how understanding fashion components can help start a small design business.
2. List major international brands under Women's, Men's, Kidswear, and Sportswear.
3. Prepare a mini fashion forecast for an upcoming season (color, silhouette, fabric).

Part A (1 mark)

1.The outline or external shape of a garment is called _____. (K1 – R, CO-1)
a) Texture b) Silhouette c) Color d) Design detail
2. The level of fashion business that includes designing, manufacturing, and production is _____. (K2 – U, CO-1)
a) Primary Level b) Secondary Level c) Retail Level d) Auxiliary Level
3. The person responsible for creating new styles and concepts in fashion is the _____. (K1 – R, CO-2)
a) Retailer b) Designer c) Promoter d) Distributor
4. A major factor that accelerates the movement of fashion is _____. (K2 – U, CO-2)
a) Poor economy b) Social media c) War d) Climatic restrictions
5. The type of fashion that returns again and again in cycles is called _____. (K1 – R, CO-1)
a) Fad b) Classic c) Recurring fashion d) Trend stopper
6. A designer who works independently and sells their ideas to companies is called a _____. (K1 – R, CO-1)
a) Stylist b) Freelance designer c) High-fashion designer d) Production assistant
7. _____ is known for Indian bridal couture and Bollywood fashion. (K1 – R, CO-1)
a) Ritu Kumar b) Rohit Balc) Manish Malhotra d) Wendell Rodricks
8. Paris (France) is internationally famous for its _____. (K2 – U, CO-2)
a) Casual wear b) Haute couture c) Kidswear d) Knitwear
9. A well-known international sportswear fashion brand is _____. (K1 – R, CO-2)
a) Dior b) Zara c) Nike d) Versace

10. The component of fashion that refers to the surface feel of the material is _____. (K1 – R, CO-1)
a) Texture b) Silhouette c) Design details d) Color

Part B (6 mark)

1. Explain the origin and development of fashion with suitable examples. (K1-R, CO-1)
2. Describe the components of fashion—design details, texture, colour, and silhouette. (K2-U, CO-1)
3. Write in detail about various types of fashion silhouettes with neat sketches. (K3-Ap, CO-1)
4. Explain the role of designers, manufacturers, and retailers in the fashion focus. (K2-U, CO-2)
5. Discuss the scope of fashion business at the primary, secondary, retail, and auxiliary levels. (K1-R, CO-2)
6. Write a detailed note on the movement of fashion and the factors influencing fashion movement. (K2-U, CO-3)
7. Explain accelerating factors, retarding factors, and recurring fashions with examples. (K3-Ap, CO-3)
8. Describe the types of designers—high fashion designer, stylist, and freelance designer. (K1-R, CO-4)
9. Write short notes on sources of design inspiration and the contribution of Indian fashion designers. (K2-U, CO-4)
10. Describe international fashion centres and major global fashion brands in detail. (K3-Ap, CO-5)

Part C (12 marks)

1. Explain the origin, importance, and development of fashion with suitable examples. (K2-U, CO-1)
2. Describe in detail the components of fashion including design details, texture, colour, and silhouette. Include sketches of different silhouettes. (K3-Ap, CO-1)
3. Discuss the roles of designers, manufacturers, and retailers in the fashion industry with suitable examples. (K2-U, CO-2)
4. Explain the scope of fashion business at the primary, secondary, retail, and auxiliary levels with examples. (K2-U, CO-2)
5. Describe the movement of fashion. Explain the accelerating, retarding, and recurring factors affecting fashion movement. (K3-Ap, CO-3)
6. Explain the process of predicting fashion trends. Discuss its importance in the fashion industry with examples. *(K3-Ap, CO-3)*
7. Differentiate between high-fashion designers, stylists, and freelance designers. Give examples of their work and contribution to the industry. *(K2-U, CO-4)*
8. Discuss the sources of design inspiration for fashion designers. Explain with suitable examples. *(K2-U, CO-4)*
9. Write in detail about major Indian fashion designers and their contribution to the Indian fashion industry. *(K3-Ap, CO-4)*
10. Describe international fashion centers (France, Italy, England, Germany, Canada, New York) and major global fashion brands across women’s wear, men’s wear, kidswear, sportswear, cosmetics, and accessories. *(K3-Ap, CO-5)*

Head of the Department

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HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL 629 004

Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL
DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : II B.Sc. Costume Design and Fashion
Title of the Course : Core Lab Course IV: Construction of Men's Wear
Semester : IV
Course Code : DU244CP1

Learning Objectives

1. Develop and analyze patterns for men's wear garments
2. Construct garments using a sewing machine based on measurements.

Course Outcomes

On the successful completion of the course, students will be able to:		
1	Illustrate various silhouette and designs for men‟s wear garments.	**K1**
2	select the necessary tools and equipments for sewing the garments.	**K2**
3	develop patterns for men‟s wear garments	**K3 &K4**
4	assume the measurement given in the instruction.	**K5**
5	construct garments based on the measurement by using sewing machine.	**K6**

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

Total Teaching hours include 45 hours allotted for Formative and Summative Assessments
Course Focussing on Employability/ Entrepreneurship/ Skill Development

Unit	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
1	**Slack Shirt–** Open Collar, Patch Pocket, Half Sleeve	6	3	K1, K2 & K3	Experiential Learning, Demonstration and Practice	Think, discuss and share, peer learning, Quiz	Video (You tube), Google notes, Interactive PPT	Written Assignment Written Presentation
	T – Shirts– Front Half Open, Zip Attached, With or Without Collar.	6						
2	**Full Sleeve Shirt**– Open Collar, Patch Pockets, Full Sleeve with Cuff	6	3	K4 & K6	Project-Based Learning , Collaborative Learning	Inquiry based learning	Quiz (LMS), Demonstration & Discussion	Display the designed samples
	Pleated Trousers– Pleats in Front, Draft At Back, Side Pockets, Fly With Buttons (or) Zip, Belt with Adjustable Strap.	6						
3	**Bell Bottom–** Bell Bottom with Pleatless, Side Pockets, Fly with Zip/Button,	6	3	K1 & K3	Lecture with Interactive PPT & Conceptual demonstration	Guided Instruction, Inquiry worksheet	Quiz (LMS), Demonstration & Discussion	Quiz, Individual Discussion
	Narrow Bottom- Narrow Bottom, Hip Pockets, PleatsK4 & K6	6						
4	**Kalidar Kurta–** Kali	6	3	K4 & K6				

	Piece, Side Pocket, Round Neck, Half Open,				Visual Lecture, Experimental Learning, Sample Demonstration	Guided Instruction, Inquiry worksheet	Video lecture, submission of draft, interactive notes, cost calculation	Submission of constructed samples & Individual presentation
	Nehru Kurta– Half Open, Stand Collar, With (or) Without Pockets, Full Sleeve	6						
5	**Single Breast Vest** – Coat Collar, Coat Sleeve, Pocket,	6	3	K1, K2 & K3, K6	Lecture with PPT & Conceptual demonstration	Peer Learning	Video (You tube), Google notes, Interactive PPT,	Display of the designed samples.
	Night Dress- Round Neck or Collar attached, Overlap Front, Tap at12tached.	6						

Teaching hours include 15 hours allotted for Formative and Summative Assessments
Course Focussing on Employability/ Entrepreneurship/ Skill Development:
Activities (Em/ En/SD):

- Draft and stitch a slack shirt with open collar, patch pocket, and half sleeve.
- Construct a miniature pattern of narrow bottom trousers with hip pockets and pleats.
- Practice coat collar construction by preparing a muslin fabric sample of a single breast vest.

Assignment:

- Prepare draft of pleated trousers showing pleats in front, dart at back, and belt with adjustable strap.
- Collect images and describe features of bell bottom trousers with zip/button fly.
- Draft and illustrate narrow bottom trousers with hip pockets and pleats.
- Draft and explain the construction of single breast vest with coat collar and pocket.

Sample questions

1. Draft and construct a Slack Shirt with open collar, patch pocket, and half sleeve. *(K3, CO-1)*
2. Explain the drafting procedure of a T-shirt with front half opening and zip attachment. *(K2, CO-2)*
3. Illustrate the style variations in T-shirts with and without collar. *(K4, CO-2)*

4. Prepare a full sleeve shirt pattern with open collar, patch pockets, and cuff attachment. *(K3, CO-1)*
5. Draft and stitch pleated trousers with front pleats, back darts, side pockets, and fly opening. *(K3, CO-3)*
6. Differentiate between Bell Bottom and Narrow Bottom trousers with neat sketches. *(K4, CO-3)*
7. Construct a Kalidar Kurta with kali pieces, side pocket, and round neck half open. *(K3, CO-4)*
8. Prepare the draft and muslin sample of a Nehru Kurta with stand collar and optional pockets. *(K3, CO-4)*
9. Write short notes on Single Breast Vest – coat collar, coat sleeve, and pocket placement. *(K2, CO-5)*
10. Design and illustrate Night Dress styles with variations (round neck, collar attached, overlap front). *(K6, CO-5)*

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Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design & Fashion
Class : II B.Sc Costume Design & Fashion
Title of the Course : Elective Course IV: Textile Testing and Quality Control
Semester : IV
Course Code : DU244EC1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU244EC1	4	-	-	-	3	4	60	25	75	100

Learning Objectives:

1. To know and identify the type of fibres.
2. To analyse and test the yarn count and fabric count.

Course Outcomes

COs	Upon completion of this course, students will be able to:	PSO addressed	CL
CO-1	explain the textile and quality control	PSO - 1	K1
CO-2	agree the standard and specification in textile industry.	PSO - 2	K2
CO-3	apply and analyze the identification of textile fibres	PSO - 3	K3 &K4
CO-4	identify and evaluate the yarn analyze in textile industry.	PSO - 3	K5
CO-5	assess and create the fabric analyze in testing	PSO - 3	K6

K1 - Remember; K2 - Understand; K – Apply; K4 - Analyse; K5 - Evaluate; K6 -Create

Teaching plan
Total Contact hours*: 60 (Including lectures, assignments and tests)

Unit	Module / Topic	Teaching Hours	Assessment Hours	Cognitive Level	Pedagogy	Student Centric Method	E-Resources	Assessment / Evaluation Methods
I – TEXTILE AND QUALITY CONTROL								
1	Introduction to Textile and Quality Control – Definition, General Aspects of Textile Testing	3	1	K1 (R)	Lecture with PPT, Visual Aids	Think–Pair–Share, Concept Mapping	PPT, Video Lectures	MCQ Test, Oral Questions, CIA I, Short Test, Practical Assignment, Worksheet, Slip Test, Practical Evaluation, Open Book Test, Viva, Assignment, Quiz
2	Routine Tests Performed in Textile Industry	3	1	K2 (U)	Demonstration + PPT	Peer Teaching, Guided Practice	Charts, Videos	
3	Benefits of Testing and International Standards for Textile and Apparel	2	1	K2 (U)	Case Study, Interactive Lecture	Group Discussion, Collaborative Learning	Notes, Sample Reports	
II – FIBRE ANALYSIS								
1	Identification of Textile Fibre – Burning, Solvent, Longitudinal and Cross-Sectional View	5	1	K3 (Ap)	Demonstration	Hands-on Fibre Identification	Microscope, Samples, Videos	Practical Test, CIA I, Worksheet, Assignment, Quiz
2	Fibre Properties – Cotton Fibre Length, Cotton Fibre Strength, Fineness, Nep Potential	5	1	K4 (An)	Case Study	Collaborative Analysis	Charts, Video Demonstrations	

3	Wool, Polyester, Nylon, Acrylic Fibre Identification Techniques	5	1	K4 (An)	Demonstration + Discussion	Peer Teaching	Fibre Samples, PPT	
III – YARN ANALYSIS								
1	Yarn Numbering Systems	3	1	K2 (U)	Lecture + PPT	Group Discussion	PPT, Charts	Practical Test, CIA II, Assignment, Quiz
2	Yarn Strength, Twist Testing, Wet Strength	5	1	K3 (Ap)	Demonstration	Hands-on Testing	Instron, Twist Tester, Videos	
3	Additional Tests for Fibres and Yarn – Microscope, Weight Method, Air Flow Method, Crimp	5	1	K4 (An)	Case Study	Collaborative Problem Solving	Microscope, PPT, Videos	
IV – FABRIC ANALYSIS								
1	Fabric Dimensions – Length, Width, Bow, Skewness, Weight, Thickness	5	1	K3 (Ap)	Demonstration	Hands-on Measurement	Sample Fabrics, Charts, PPT	Practical Test, CIA II, Assignment, Quiz
2	Fabric Strength – Breaking Strength, Abrasion Resistance, Stiffness	5	1	K4 (An)	Case Study + Demo	Group Analysis	Instron, Kawabata Tester	
3	Drapability and Crease Recovery	3	1	K4 (An)	Demonstration + Discussion	Peer Assessment	Videos, PPT	

V – STANDARDS AND SPECIFICATIONS								
1	Standards and Specifications in Textile Industry	3	1	K2 (U)	Lecture + PPT	Group Discussion	PPT, Charts	MCQ Test, CIA III, Assignment, Practical Evaluation, Practical Test, Quiz
2	Quality Control Aspects	3	1	K3 (Ap)	Case Study	Peer Teaching	Sample Reports, Videos	
3	Colour Fastness Tests – Crocking, Perspiration, Sunlight, Laundering	5	1	K4 (An)	Demonstration	Hands-on Testing	Samples, Videos	

Total Teaching hours include 60 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development:

Activities (Em/ En/SD):

1. Hands-on fibre identification using burning, solvent, and microscopic methods (Skill Development)
2. Yarn and fabric testing using instruments like AFIS, Instron, and Kawabata system (Employability/Skill Development)

Assignment

1. Perform fibre identification tests on cotton, wool, polyester, and nylon samples.
2. Analyse yarn and fabric properties including yarn count, strength, twist, fabric weight, thickness, and colour fastness.

(Last date to submit – 07-01-2026)

Seminar Topics

1. Identification of Textile Fibres: Methods and Industry Applications
2. Yarn and Fabric Analysis Techniques in Quality Control
3. Standards and Specifications in Textile Industry: Colour Fastness and Testing Methods

Part A (1 mark)

Choose the correct answer

1. Textile testing is performed to _____ (K1-R, CO-1)

   a) Enhance fabric appearance b) Ensure quality standards c) Dye the fabric d) Stitch garments

2. The international standards commonly followed in textile testing are _____ (K1-R, CO-2)

   a) ISO and ASTM b) BIS only c) IEC d) None of the above

3. Burning test is used to identify _____ (K3-Ap, CO-3)

   a) Yarn count b) Fibre type c) Fabric weight d) Twisting of yarn

4. The instrument used to measure yarn strength is _____ (K3-Ap, CO-4)

   a) Kawabata system b) Instron Tester c) AFIS d) Micrometer

5. Colour fastness to crocking evaluates _____ (K2-U, CO-5)

   a) Strength of fibre b) Fabric weight c) Colour transfer due to rubbing d) Yarn twist

6. The test for fibre fineness and trash content is _____ (K3-Ap, CO-3)

   a) Microscopic analysis b) Air Flow Method c) Burning Test d) Crease Recovery Test

7. Abrasion resistance of a fabric is tested to assess _____ (K4-An, CO-4)

   a) Stiffness b) Surface wear c) Yarn twist d) Fibre length

8. The process of measuring fabric bow and skewness is part of _____ (K4-An, CO-5)

   a) Yarn Analysis b) Fibre Analysis c) Fabric Analysis d) Grading

9. Wet strength and elongation tests are performed on _____ (K3-Ap, CO-4)

   a) Filament yarns b) Cotton fibres c) Acrylic fibres d) Wool fibres

10. Colour fastness to sunlight is important for _____ (K2-U, CO-2)

    a) Testing fibre strength b) Evaluating fabric appearance c) Ensuring durability under light exposure d) Measuring yarn count

Part – B (6 mark)

1. Explain the importance of textile testing in quality control. (K2-U, CO-1)
2. Write short notes on ISO and ASTM standards in textile testing. (K2-U, CO-2)
3. Describe the burning and solvent tests used for fibre identification. (K3-Ap, CO-3)
4. Explain fibre fineness, length, and trash content determination in cotton. (K4-An, CO-3)
5. Discuss the methods of yarn analysis – number, strength, twist, and crimp. (K4-An, CO-4)
6. Explain the importance of fabric analysis – bow, skew, thickness, and weight. (K4-An, CO-5)
7. Write short notes on colour fastness tests: crocking, laundering, and sunlight. (K3-Ap, CO-5)
8. Explain abrasion resistance and crease recovery tests of fabrics. (K4-An, CO-5)
9. Describe the role of instruments like AFIS, Instron, and Kawabata system in textile testing. (K3-Ap, CO-1)
10. Explain wet strength and elongation testing of filament yarns. (K4-An, CO-4)

Part – C (12 mark)

1. Explain in detail the identification tests for different fibres including cotton, wool, polyester, nylon, and acrylic. (K6-Cr, CO-3)
2. Discuss the procedures for yarn analysis including numbering, strength, twist, and elongation tests. (K6-Cr, CO-4)
3. Elaborate on fabric analysis methods for length, width, bow, skewness, weight, thickness, breaking strength, and drapability. (K5-Ev, CO-5)
4. Explain the standards and specifications used in textile industry for quality control. (K5-Ev, CO-2)
5. Describe the colour fastness tests in textiles – crocking, perspiration, sunlight, and laundering. (K4-An, CO-5)
6. Explain the working of AFIS, Instron Tester, and Kawabata system in textile testing. (K6-Cr, CO-1)
7. Discuss the benefits of textile testing and quality control in industry applications. (K5-Ev, CO-1)

8. Explain in detail the evaluation of yarn and fabric quality in textile industry. (K6-Cr, CO-4 & CO-5)
9. Write in detail the methods for fibre, yarn, and fabric analysis along with instruments used. (K6-Cr, CO-3 & CO-4)
10. Elaborate on the impact of testing and quality control on final textile product performance. (K5-Ev, CO-1 & CO-5)

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Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design & Fashion
Class : II B.Sc Costume Design & Fashion
Title of the Course : Elective Lab Course IV: Textile Testing and Quality Control Laboratory
Semester : IV
Course Code : DU244EP1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU244EP1	-	-	2	-	2	2	45	25	75	100

Learning Objectives:

1. To identify the type of fibres.
2. To analyse fabric counting methods

Course Outcomes

COs	Upon completion of this course, students will be able to:	PSO addressed	CL
CO-1	learn and develop the techniques used for clothing care.	PSO - 1	**K1**
CO-2	demonstrate the yarn testing machines.	PSO - 2	**K2**
CO-3	apply the techniques used for clothing care.	PSO - 3	**K3**
CO-4	analyze the calculation of fabric testing	PSO - 3	**K4**
CO-5	evaluate and create the fabric testing methods.	PSO - 3	**K5 & K6**

K1 - Remember; K2 - Understand; K – Apply; K4 - Analyse; K5 - Evaluate; K6 -Create

Teaching plan
Total Contact hours*: 45 (Including lectures, assignments and tests)

Unit	Module / Topic	Teaching Hours	Assessment Hours	Cognitive Level	Pedagogy	Student–Centric Method	E-Resources	Assessment / Evaluation Methods
I – Fibre Testing								
1	Fiber Identification – Longitudinal View using Microscope & Fibre Length using Baer Sorter	3	1	K3 (Ap)	Lecture with Visual Demonstration	Hands-on Demonstration, Based Learning	Video Lectures, Simulation Tools, Observation Sheets	Practical execution & Sample submission
2	Burning Test	3	–	K3 (Ap)	Demonstration with live samples	Practical Handling, Peer Learning	Video Demo, Lab Manual	Practical execution & Sample submission
3	Chemical Test	3	1	K3 (Ap)	Demonstration	Hands-on Demonstration	Interactive Video & Tools	Practical execution & Sample submission
II – Yarn Testing								
1	Yarn Count using Wrap Reel & Electronic Balance	4	–	K3 (Ap)	Demonstration & Practice	Hands-on Demonstration	Video Lecture, Lab Tools	Practical execution & Sample submission
2	Yarn Count – Beesley Balance & Quadrant Balance	3	1	K3 (Ap)	Demonstration	Based Learning	Simulation Tool, Interactive Notes	Practical execution & Sample submission
III – Yarn Strength Testing								
1	Yarn Twist using Twist Tester	3	–	K3 (Ap)	Demonstration with Instruments	Hands-on Lab Work	Video Demo, Lab Manual	Practical execution & Sample submission

2	Yarn Strength using Lea Strength Tester	3	1	K3 (Ap)	Demonstration	Hands-on Demonstration	Video-based Training	Practical execution & Sample submission
IV – Fabric Testing								
1	Fabric Length & Width, Fabric Thickness	3	–	K3 (Ap)	Demonstration & Practice	Hands-on Testing	Video Lectures, Demo Tools	Practical evaluation – Sample submission
2	Fabric Weight & Bursting Strength	3	1	K3 (Ap)	Practical Demonstration	Collaborative Testing & Discussion	Simulation Tools, Lab Manual	Practical execution & Sample submission
3	Crease Recovery Test	3	–	K3 (Ap)	Demonstration & Experiment	Hands-on Learning	Video Tools & Lab Manual	Practical sample submission
V – Fabric Performance Testing								
1	Stiffness & Drape	4	1	K3 (Ap)	Demonstration & Experimentation	Hands-on Demonstration	Simulation Tool, Video Lessons	Practical execution & Sample submission
2	Fabric Warp & Weft Crimp	4	–	K3 (Ap)	Demonstration	Practical Interaction	Video-based Tools	Practical sample submission
3	Rubbing Fastness	3	–	K3 (Ap)	Demonstration and Practice	Based Learning	Video Demo	Practical execution & Sample submission
4	Washing Fastness	3	1	K3 (Ap)	Practical Demonstration	Based Learning	Demo Videos	Practical execution & Sample submission

Total Teaching hours include 45 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development:

Activities (Em/ En/SD):

Perform textile testing and evaluate sample quality using industrial testing equipment

1. Fiber Identification – Burning Test / Chemical Test / Microscope Test
2. Yarn Count determination using Wrap Reel, Quadrant Balance & Beesley Balance
3. Determination of Yarn Twist and Yarn Strength

Assignment

3. Procedure and importance of Color Fastness Testing (Washing, Crocking, Perspiration, and Light)
4. Methods to calculate fabric GSM, thickness and bow & skew measurement with examples

(Last date to submit –: (03-02-2026)

ALLOCATION OF MARKS EXTERNAL MARKS (75 MARKS)

a. Procedure	:	30 Marks
b. Sample	:	20 Marks
c. Calculation	:	5 Marks
d. Result	:	5 Marks
e. Record	:	10 Marks
f. Viva- Voce	:	5 Marks
Total	:	75 Marks

Sample questions

1.

a. Identify the given fibre sample using microscopic longitudinal view & submit the result. (K3-Ap, CO-1)

b. b. Determine the fibre length using Baer Sorter and record observations. (K3-Ap, CO-1)

2.

a. Perform the Burning Test to identify the given fabric sample. (K3-Ap, CO-1)

b. b. Perform the Chemical test for fibre identification and record inference. (K3-Ap, CO-1)

3.

a. Determine Yarn Count using Wrap Reel and Electronic Balance & submit calculation sheet. (K3-Ap, CO-2)

b. b. Determine Yarn Count using Beesley Balance and Quadrant Balance. (K3-Ap, CO-2)

4.

a. Determine Yarn Twist using Twist Tester. (K3-Ap, CO-2)

b. b. Determine Yarn Strength using Lea Strength Tester and record the findings. (K3-Ap, CO-2)

5.

a. Measure Fabric GSM (Weight) and submit sample result. (K3-Ap, CO-4)

b. b. Determine Fabric Length, Width and Thickness. (K3-Ap, CO-4)

6.

a. Determine Fabric Bursting Strength using Bursting Strength Tester. (K3-Ap, CO-4)

b. b. Evaluate Crease Recovery of the given sample. (K3-Ap, CO-4)

7.

a. Evaluate Fabric Stiffness and Drape coefficient. (K3-Ap, CO-5)

b. Determine Warp & Weft Crimp of the given sample. (K3-Ap, CO-5)

8.

a. Perform Colour Fastness to Rubbing and record results. (K3-Ap, CO-5)

b. b. Perform Colour Fastness to Washing using Laundrometer. (K3-Ap, CO-5)

9.

a. Perform Colour Fastness to Light and evaluate rating. (K3-Ap, CO-5)

b. b. Test Wet & Dry rubbing fastness and evaluate findings. (K3-Ap, CO-5)

10.

a. Test Washing Fastness of the given sample using suitable technique. (K3-Ap, CO-5)

b. b. Calculate the change in colour/ staining grade and give conclusion. (K3-Ap, CO-5)

Head of the Department

HEAD OF THE DEPARTMENT
DEPARTMENT OF COSTUME DESIGN & FASHION (S.F)
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL - 629 004

Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : III B.Sc. Costume Design and Fashion
Title of the Course : CORECOURSE VII: KNITTINGTECHNOLOGY
Semester : VI
Course Code : DU236CC1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236CC1	5	-	-	-	5	5	75	25	75	100

Objectives

1. To impart knowledge on the warp and weft knitting techniques
2. To know their cent trends and technologies adopted in the industry

Course Outcomes

On the successful completion of the course, students will be able to:		
1	understand the basics knitting process and the functions of a knitting machine	**K1& K2**
2	apply the weft knitting process and machineries used	**K3**
3	analyse the warp knitting process and machineries used	**K4**
4	evaluate and appraise their cent technology in the knitting industry	**K5**
5	create the significant role played by the knitting industry locally and nationally	**K6**

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

Teaching plan
Total Contact hours*: 75 Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	KNITTING OVERVIEW								

	1	Knitting – Definition, classification and history, characteristics of knitted goods.	5	1	K2(U)	Lecture with visual aids, videos	Active learning, real-world application	PPT, videos, articles	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	2	General terms and principles of knitting technology	5		K1(R)	Lecture with visual aids	Creativity, analysis	Notes, articles	MCQ test, Visualization Task, Conceptual Quiz, CIA I
	3	Machine knitting, parts of machine,	5		K1(R)	Lecture and video demonstration	Real-world task observation	Demo videos, simulations	Oral Quiz, slip test, Assignment, CIA I.
	4	Knitted loop structure,	3	1	K2(U)	Interactive PPT session	Active recall	Case studies	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	5	Stitch density	3	1	K1(R)	Chalk & talk with visual aid	Practice worksheets	PDFs, marker plans	MCQ test, Visualization Task, Conceptual Quiz, CIA I
II	**PRINCIPLES OF WEFT KNITTING TECHNOLOGY**								
	1	Weft knitting– classification	2	1	K1(R)	Lecture with video aids	Design thinking	PPT, tools, tutorials	Oral Quiz, slip test, Assignment, CIA I.

	2	Circular rib knitting machine, purl, interlock, jacquard	3	1	K1(R)	Visual demonstration	Peer practice	Video clips, tool specs	Presentation, homework, creative writing, group discussion, CIA II
	3	Single Jersey machine-basic knitting elements-types and functions–	3	1	K2(U)	Problem-based, demo-based	Design application	Industry clips, notes	Peer Review, Online assignment, Group Discussion, CIA II
	4	Knitting cycle, CAM system-3- way technique to develop design-knit, tuck, miss-effect of stitches on fabric properties	3	1	K2(U)	Experiential learning	Innovation tasks	YouTube demo, articles	Written Assignment-Oral Presentation, Conceptual Questions, CIA I
	5	3- way technique to develop design-knit, tuck, miss-effect of stitches on fabric properties	3		K2(U)	Lecture with visual aids, videos	Active learning, real-world application	PPT, videos, articles	MCQ test, Visualization Task, Conceptual Quiz, CIA I
III	**PRINCIPLES OF WARP KNITTING TECHNOLOGY**								
	1	Warp knitting - lapping variations-tricot, raschel, simplex and Milanese - kitten	3	1	K1(R)	PPT with real demo	Collaborative learning	Machine catalogues, videos	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA I
	2	Raschel - singlebar, 2 bar, multi bar machines.	4	1	K2(U)	Real machine exposure	Case analysis	Tech manuals, demo clips	Slip test, Discussion,

									class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA I
	3	Types of threading,	4	1	K2(U)	In-lab observation	Peer-led demo	Practical video, charts	Presentation, homework, creative writing, group discussion,CIA I
	4	Production of nets, curtains, heavy fabrics, elasticized fabrics	4	1	K2(U)	Visual aid + demo	Task-based learning	Tutorial videos	Quiz, class test, Brainstroming, Peer review, CIA I
IV	**SEAMLESS KNITTING AND KNITTING CARE**								
	1	Seamless Knitting– Applications, advantages, and limitations.	3	1	K1(R)	Lecture + hands-on	Design Challenge	Embroidery machine clips	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Care and maintenance of knitted material - washing, drying, ironing, storing..	5	1	K2(U)	PPT + live demo	Creative tasks	CAD videos	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II
	3	Common defects that occur in knitted fabric production	5	1	K2(U)	Chart + visuals	Peer demo	Classification videos	Presentation, homework, creative writing, group

									discussion, CIA II
V	**KNITTING INDUSTRY AND MARKET**								
	1	Knitting Industry in India–growth and development.	5	1	K2(U)	Chalk & talk + visuals	Group learning	Notes/slides	Written Assignment-Oral Presentation, Conceptual Questions, CIA II
	2	Significance of knit wear industry in Tirupur.	5	1	K2(U)	Visual + equipment demo	Peer review tasks	Machinery videos	MCQ test, Visualization Task, Conceptual Quiz, CIA II
	3	Knitwear market–Present and future trends Dyeing of Knit Fabric	2	1	K2(U)	In-lab practice	Collaborative work	YouTube, industrial videos	Oral Quiz, slip test, Assignment, CIA II.

***Total Teaching hours include 75 hours allotted for Formative and Summative Assessments**

Course Focussing on Employability/ Entrepreneurship/ Skill Development: Employability/ Entrepreneurship

Activities (Em / En): Industrial visits to textile manufacturing units

Assignment (Em / En /SD: Recant or Advanced development of knitting machine, Knitted Structure and Fabric (Last date to submit – 03-03-2025)

Seminar Topics (Em / En:

- Future Trends of Knitting
- Present Knit wear Market
- Common defect in knitted fabric which occur frequently.

Sample questions

Part A (1 mark)

Unit I – (K1/K2)

1. The loop structure in knitting is formed by: (KI-R,CO-1)
   a) Warp yarns b) Weft yarns c) Interlaced yarns d) Filaments
2. Stitch density is a product of: (KI-R,CO-1)
   a) Courses × Wales b) Needles × Gauge c) RPM × Yarn count d) None
3. Which is NOT a characteristic of knitted fabric? (K2-U,CO-2)
   a) Stretchable b) Wrinkle-free c) High shape retention d) Good air permeability
4. CAM system is associated with: (K2-U,CO-2)
   a) Loop structure b) Fabric finishing c) Needles movement d) Yarn dyeing
5. The structure used mostly for T-shirts (K2-U, CO-2)
   a) Single Jersey b) Purl c) Interlock d) Rib
6. Miss stitch affects fabric by: (K2-U, CO-2)
   a) Thickening yarn b) Reducing weight c) Increasing elasticity d) Shrinking
7. In circular rib knitting machine, needle arrangement is: (K3- A, CO-3)
   a) All needles on one bed b) Alternate needles in two beds c) Random arrangement d) None
8. The knitting cycle does NOT include: (K3 -A, CO-3)
   a) Clearing b) Yarn feeding c) Thatched looping d) Landing
9. A 2-bar warp knitting machine is used for(K4 -AN.CO-4)
   a) Single jersey fabrics b) Nets c) Jacquards d) Purl fabrics
10. Tricot machine uses _____ needles. (K4 -AN.CO-4)
    a) Latch b) Bearded c) Compound d) Circular
11. Raschel is majorly used for: (K4 -AN.CO-4)
    a) Hosiery b) Lace c) Shirting d) Denim
12. Simplex machines primarily produce: (K4- AN.CO-4)
    a) Warp-weft blends b) Spacer fabrics c) Heavy curtains d) Elastic fabrics
13. Seamless knitting is popularly used in: (K5- E,CO-5)
    a) Vests b) Sweaters c) Socks d) All the above
14. A major limitation of seamless knitting: (K5- E,CO-5)
    a) More seams b) Lack of daily wear use c) Limited pattern capabilities d) Poor comfort
15. A common knitting defect caused by yarn breakage: (K5- E,CO-5)
    a) Drop stitch b) Barre c) Neps d) Skewness
16. Which care process helps restore elasticity? (K6- C,CO-C)
    a) Bleaching b) Ironing c) Proper drying d) Harsh washing

17. Major knitwear cluster in India: (K6- C,CO-C)
    a) Ludhiana b) Tirupur c) Surat d) Mumbai
18. Future trends in knitwear market emphasize: (K6- C,CO-C)
    a) Sustainability b) 3D knitting c) Smart textiles d) All
19. Indian knit industry growth is due to: (K6- C,CO-C)
    a) Export demand b) Flexibility in production c) Cost-effectiveness d) All
20. Market innovation in knitting results in: (K6- C,CO-C)
    a) Enhanced design b) Less competition c) Workforce reduction **d) None**

Part B (6 marks)

1. Explain knitted loop structure with a neat diagram. (K2-U, CO-2)
2. Illustrate the relationship between stitch density and fabric properties.. (K3-A, CO-2)
3. Compare rib, interlock and purl weft knit structures. (K2-U, CO-2)
4. Analyse the effect of tuck and miss stitches on fabric performance. (K4 -AN.CO-4)
5. Demonstrate lapping variations in warp knitting with examples. (K2-U, CO-2)
6. Differentiate between Tricot and Raschel machines in structure and application. (K4 -AN.CO-4)
7. Examine the causes and remedies for common knitting defects. (K4 -AN.CO-4)
8. Evaluate the advantages of seamless knitting over traditional knitting. : (K5- E,CO-5)
9. Assess the growth of the Tirupur knitwear industry with supporting factors. K5- E,CO-5)
10. Propose strategies to improve India’s global knitwear competitiveness. : (K6- C,CO-C)

Part C (12 marks)

11. Analyse the principles of knitting technology with respect to machine components and fabric formation. (K4 -AN.CO-4)
12. Design a basic knitted fabric structure specifying loop orientation and density parameters. (K6- C,CO-C)
13. Discuss the knit, tuck, and miss stitches with diagrams and explain their structural influence. (K4 -AN.CO-4)
14. Develop a Jacquard knitted design for sportswear and justify yarn and machine selection. (K6- C,CO-C)
15. Compare different warp knitting machines (Tricot, Raschel, Simplex, Milanese) with industrial usage. K4 -AN.CO-4)
16. Create a product development plan using warp knitting for technical textiles. (K6- C,CO-C)
17. Critically evaluate the challenges in seamless knitting adoption in Indian industry. (K5- E,CO-5)
18. Propose a quality control plan for knitted fabric care and maintenance in an export unit. (K6- C,CO-C)
19. Evaluate India's position in the global knitwear market with recent economic trends. (K5- E,CO-5)
20. Formulate an innovative business model integrating smart textiles into the knitwear sector. (K6- C,CO-C)

Head of the Department

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HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL 629 004

Course Instructor

HOLY CROSS COLLEGE (AUTONOMOUS) NAGERCOIL
DEPARTMENT OF COSTUME DESIGN& FASHION
Teaching Plan

Department : Costume Design & Fashion
Class : III B.Sc Costume Design & Fashion
Title of the Course : Core Course VIII: Computer Application in Fashion Industry
Semester : VI
Course Code : DU236CC2

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236CC2	5	-	1	-	5	6	90	25	75	100

Learning Objectives:

1. To impart knowledge on the significant role played by the computers in the garment industry
2. To create an awareness on the latest technologies available in the various sectors of the garment industry

Course Outcomes

COs	Upon completion of this course, students will be able to:	PSO addressed	CL
CO-1	understand the application of CAD and CAM in the areas of textile and garment designing	PSO - 1	K1
CO-2	discover the use of computers in the field of body measurements, patternmaking and Grading	PSO - 2	K2
CO-3	articulate the specifications and functions of a computer and its peripherals	PSO - 3	K3
CO-4	analyse and evaluate the inevitable role played by computers in various sections of a textile and garment industry	PSO - 3	K4 & K5
CO-5	create the advantages of computer technology in the process sequences and thereby increase production	PSO - 3	K6

K1 - Remember; K2 - Understand; K – Apply; K4 - Analyse; K5 - Evaluate; K6 -Create

Teaching plan

Total Contact hours*: 90 (Including lectures, assignments and tests)

Unit	Module / Topic	Teaching Hours	Assessment Hours	Cognitive Level	Pedagogy	Student Centric Method	E–Resources	Assessment / Evaluation Methods
I – COMPUTERS IN FASHION INDUSTRY								
1	Role of Computers in Fashion Industry – Information Flow – CAD, CAM, CIM, CAA, PDC – Definition & Functions	6	1	K1 (R)	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures	Written assignment, Oral presentation, Conceptual questions, MCQ test, Visualization task, Conceptual quiz, Oral quiz, Slip test, CIA-I
2	Computers in Production Planning & Scheduling	6		K2 (U)	Lecture with PPT, Simulation-Based Learning	Brainstorming, Think-Pair-Share	Workflow Simulation Videos	
3	Computerized Colour Matching System	6	1	K2 (U)	Lecture with Visualization, Concept-based Discussion	Collaborative Learning, Concept Mapping	Simulation Tools, Interactive Notes	
II – COMPUTERS IN CREATING FABRIC & GARMENT DESIGNS								
1	CAD in Creating Designs – Advantages	6	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Peer Teaching, Gamified Quiz	CAD Demo Videos	Open book test, Assignment, Oral viva, Written assignment, Oral presentation, Student presentation, Quiz questioning, Peer review, CIA-I
2	Computerized Weaving, Knitting & Printing	6		K3 (Ap)	Lecture with Visualization, Concept-based Discussion	Collaborative Learning, Concept Mapping	Video Lectures, Simulation Tool	

3	Computerized Embroidery Machines, Garment Designing with CAD – 2D & 3D Forms	6	1	K3 (Ap)	Lecture with Visualization, Demo-based Discussion	Group Presentation, Peer Review	PowerPoint & Graphical Representations	
III – BODY MEASUREMENTS, PATTERN MAKING & GRADING								
1	3D Body Scanning Systems, Made-to-Measure Systems	6	1	K2 (U)	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Collaborative Learning	Video Lectures	MCQ, Discussion, Fill-in-the-blank, Open book test, Assignment, Oral viva, Homework, Group discussion, Peer review, Slip test, CIA-II
2	CAD in Pattern Making and Grading – System Description – Information Flow	6		K4 (An)	Lecture with Simulation Tools	Peer Teaching, Gamified Quiz	Simulation Tools, Interactive Notes	
3	Process Involved in Pattern Making & Grading	6	1	K4 (An)	Lecture with Visualization, Concept-based Discussion	Group Discussion, Concept Mapping	PPt demonstration, Notes	
IV – COMPUTERS IN MANUFACTURING PROCESS								
1	Computer Application in Fabric Defect Checking	6	1	K4 (An)	Lecture with PPT, Simulation-Based Learning	Peer Teaching, Concept Mapping	Video Lectures	Peer review, MCQ, Oral quiz, Open book test, Slip test, Class test, Discussion, Assignment, Presentation, Creative writing, CIA-II
2	Laying / Spreading, Cutting, Marker Planning, Labelling	6		K5 (Ev)	Lecture with Visualization, Concept-based Discussion	Brainstorming, Problem Solving	Simulation-Based Tool Videos	

3	Computerized Sewing Machines	6	1	K5 (Ev)	Lecture & Demonstration with Visual Aids	Collaborative Learning, Creative Writing	Interactive Notes & Demo Videos	
V – DIGITAL DESIGN & AI IN FASHION								
1	Introduction to Digital Design in Fashion, Fundamentals of AI in Fashion	6	1	K6 (Cr)	Lecture with Visualization & PPT	Gamified Quiz, Peer Teaching	Video Lectures, AI Demo Tools	Peer review, MCQ, Oral quiz, Open book test, Slip test, Class test, Quiz, Brainstorming, Debate, Research presentation / Seminar, CIA-II
2	AI Assisted Design Tools, Sustainability & Ethical Considerations	6		K6 (Cr)	Concept-based Discussion, Seminar	Debate, Collaborative Learning	PowerPoint & Industry Articles	
3	Future Trends in Digital Design & AI	6	1	K6 (Cr)	Case-Study Based Lecture	Creative Presentation, Brainstorming	Case Study Videos	

Total Teaching hours include 90 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development:

Activities (Em/ En/SD):

3. Hands-on CAD projects, 3D body scanning & AI-assisted design exercises, Simulation of production planning.)

Assignment

1. Create a CAD garment design (2D & 3D).
2. Simulate pattern making and grading using CAD.

(Last date to submit – 08-01-2026)

Seminar Topics

1. Application of CAD & CAM in Garment Industry.
2. 3D Body Scanning and Made-to-Measure Systems.
3. AI in Fashion Design – Trends and Tools.

Part A (1 mark)

Choose the correct answer

1. CAD stands for _____ (K1-R, CO-1)

   a) Computer Aided Drawing b) Computer Aided Design c) Computer Automatic Drafting d) Computer Applied Design

2. The full form of CAM is _____ (K1-R, CO-1)

   a) Computer Aided Manufacturing b) Computer Applied Mechanism c) Computer Automated Machinery d) Computer Assisted Modelling

3. The software used for pattern making and grading is _____ (K2-U, CO-2)

   a) Excel b) Adobe Photoshop c) TukaCAD d) Coral Draw

4. 3D body scanning is used for _____ (K2-U, CO-2)

   a) Measuring fabric weight b) Creating accurate body measurements c) Grading fabric d) Dyeing fabric

5. Computerized marker planning helps in _____ (K3-Ap, CO-4)

   a) Increasing fabric consumption b) Reducing fabric wastage c) Colour fastness d) Measuring yarn count

6. CIM stands for _____ (K1-R, CO-1)

   a) Computer Involved Manufacturing b) Computer Integrated Manufacturing c) Computer Industrial Model d) Computer Instant Mechanism

7. The process used to convert 2D patterns into 3D virtual garments is _____ (K3-Ap, CO-2)

   a) Marker planning b) Fabric testing c) Virtual sampling d) Draping

8. The technology used for checking defects in fabrics is _____ (K4-An, CO-4)

a) CAD system b) CAM controller c) Computer Vision System d) Colour matching tool

9. Computerized embroidery machines are controlled by _____ (K3-Ap, CO-3)

   a) Punch cards b) Digital pattern files c) Printing plates d) Scanning tools

10. AI in fashion helps to _____ (K2-U, CO-5)

    a) Identify fabric type b) Predict fashion trends c) Remove stains d) Perform manual cutting

Part – B (6 mark)

1. Explain the role of computers in the fashion industry. (K2-U, CO-1)
2. Write short notes on CAD and its advantages in garment designing. (K2-U, CO-1)
3. Describe the use of 3D body scanning and made-to-measure systems. (K3-Ap, CO-2)
4. Explain the process involved in pattern making using CAD. (K3-Ap, CO-2)
5. Discuss computerized marker planning and its significance. (K4-An, CO-4)
6. Write short notes on computerized embroidery and printing technology. (K3-Ap, CO-3)
7. Explain the role of computer applications in fabric defect checking and spreading. (K4-An, CO-4)
8. Discuss the use of AI-assisted design tools in fashion. (K4-An, CO-5)
9. Explain computerized sewing machines and their functions. (K4-An, CO-4)
10. Discuss virtual prototyping and virtual sampling in garment designing. (K3-Ap, CO-2)

Part – C (12 mark)

1. Explain in detail the applications of CAD, CAM, CIM, and CAA in the textile and garment industry. (K5-Ev, CO-1)
2. Discuss CAD in pattern making and grading with system description and information flow. (K6-Cr, CO-2)
3. Explain 3D body scanning technology and its advantages in apparel production. (K6-Cr, CO-2)
4. Describe the computerized fabric inspection process, marker planning, spreading, cutting, and labeling. (K5-Ev, CO-4)

5. Explain the role of AI and digital design in forecasting fashion trends and product development. (K6-Cr, CO-5)
6. Discuss computerized embroidery, computerized knitting, computerized weaving, and printing methods. (K5-Ev, CO-3)
7. Explain the contribution of automated sewing machines and CAM in mass garment production. (K6-Cr, CO-4)
8. Describe the latest digital technologies used in fashion such as virtual simulation and 3D digital clothing. (K6-Cr, CO-5)
9. Explain the importance of computerized pattern making and grading for industry applications. (K5-Ev, CO-2 & CO-3)
10. Discuss the future trends and scope of digital design and AI in the fashion industry. (K5-Ev, CO-5)

Head of the Department

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NAGERCOIL - 629 004

Course Instructor

SEMESTER VI

CORE LAB COURSE VI: FASHION PORTFOLIO

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236CP1	-	-	6	-	4	6	90	25	75	100

Pre-requisite

Basic knowledge on garment designing

Learning Objectives

1. To create garment collection based on an inspiration/ theme
2. To search and find out exclusive fabrics and accessories for the garment collection

Course Outcomes

On the successful completion of the course, students will be able to:		
1	recall and understand about the design, draft and lift basic weaves.	**K1&K2**
2	learn about different weave structure of novelty weaves.	**K2**
3	use different types of figured fabrics	**K3**
4	analyse different weave structure of figured fabrics	**K4**
5	evaluate different weaves of Knitted Fabrics	**K5**

K1 - Remember; **K2** - Understand; **K3** – Apply; **K4** – Analyse; **K5** – Evaluate

Teaching Plan with Modules

Total Hours: 90

Unit	Sec	Topics	Hours	Cognitive Level	Pedagogy	Assessment / Evaluation
I	1	Introduction to Portfolio & Trend Research	2	K2	Lecture, PPT, Discussion	Assignment

	2	Preparation of Customer Profile	4	K2, K3	Experiential Learning, Case Study	Evaluation of Customer Profile Sheet
	3	Preparation of Theme Board	4	K3, K4	Demonstration, Creative Work	Observation & Board Display
	4	Preparation of Mood Board	4	K3, K4	Demonstration, Material Exploration	Submission of Mood Board
	5	Preparation of Story Board	4	K3, K5, K6	Creative Development, PPT	Display & Presentation
II	1	Colour Board Preparation	4	K2, K3	Demonstration, Blending Techniques	Review & Display
	2	Fabric Board Preparation	3	K3, K4	Fabric Swatch Analysis	Fabric Board Submission
	3	Flat Sketches / Silhouette Development	5	K2, K3, K6	Practice Sessions, CAD/Manual	Evaluation of Flats / Silhouette
	4	Accessory Board Preparation	3	K2, K3	Demonstration, Material Collection	Accessory Board Submission
	5	Integration of Boards	3	K4, K5	Critique, Peer Discussion	Internal Assessment 1
III	1	Preparation of Photographic Board	4	K2, K3	Photography Demo, Layout Design	Submission
	2	Pattern Drafting for Selected Garment	6	K3, K4	Demonstration, Pattern Making Practice	Evaluation of Drafts
	3	Garment Construction According to Customer Profile	8	K3, K4, K6	Hands-on Construction, Techniques Practice	Submission of Garment; Internal Test – II

IV	1	Portfolio for Kids Wear / Women's Wear / Men's Wear – Layout Plan	4	K3, K4	Demonstration & Discussion	Layout Approval
	2	Illustration Sheets Development	6	K3, K6	Creative Practice, CAD/Manual	Illustration Submission
	3	Final Board Arrangement	4	K3, K5	Critique Session	Observation & Assessment
	4	Final Draft Portfolio Compilation	4	K3, K6	Review & Correction	Internal Assessment – III
V	1	Soft Copy Portfolio Preparation	6	K3, K4	Digital Presentation – Canva, Photoshop, Illustrator	Soft Copy Submission
	2	Hard Copy Portfolio Preparation	6	K3, K6	Printing, Mounting, Binding Guidance	Hard Copy Submission
	3	Modelling with Photoshoot	6	K2, K3, K5	Photoshoot Demo, Posing, Styling	Photo Sheet Submission & Model Exam

Model Practical Questions (75 Marks)

I. 1. Choose an inspiration and prepare a **Theme** and **Mood Board** explaining how you selected theme that influences colour, silhouette, and design direction. (K2 CO1) (15 Marks)

2. Select suitable fabrics for your collection and prepare a **Fabric Board** with swatches and fiber content. (K3 CO3) (15 Marks)

3. Create **six flat sketches** for a **Silhouette** with proper technical detailing. (K3 CO3) (15 Marks)

4. Draft and construct a **basic pattern** suitable for your chosen silhouette from the portfolio. (K3 CO1) (15 Marks)

5. Prepare a **photographic board** showing styling, poses, and angles used during the photoshoot. (K4 CO4) (15 Marks)

II 1. Organize a trend forecasting research using online resources and create a **Trend Analysis Sheet** for your collection. (K2 CO2) (15 Marks)

2. Develop a **Colour Board** showing colour harmonies, style and seasonal fashion trends. (K2 CO2) (15 Marks)

3.Prepare an **Accessory Board** showing trims, fasteners, surface designs, and styling elements. (K3 CO2) (15 Marks)
4.Analyse and construct any **one garment** from your collection including drafting, pattern adaptation, and sewing. (K4 CO4) (15 Marks)
5.Document step-by-step production photos and compile them into a visual presentation board. (K4 CO4) (15 Marks)

III. 1. Prepare a **Customer Profile** sheet for a specific age group (kids, men, women) and justify your design choices. (K3 CO1) (15 Marks)

2.. Identify at least **three figured fabrics** and explain their suitability for different garments. (K3 CO3) (15 Marks)

3. Develop a **Silhouette Sheet** with the help of rough sketches to final approved designs. (K3 CO3) (15 Marks)

4. Analyse and construct any **one garment** from your collection including drafting (K4 CO4) (15 Marks)

5. Develop a **mini capsule collection** for one garment based on sustainability, zero-waste or upcycling themes. (K6 CO5)

IV1. Prepare a **complete portfolio** for Kids Wear (K6 CO5) (15 Marks)

2. Analyse and construct any **one garment** from your collection including pattern adaptation (K4 CO4) (15 Marks)

3. Select a simple theme (flowers, fruits, marine, festival, season) and create a small theme board with pictures (K2 CO1 (15 Marks)

4. Create a customer profile for women with age, lifestyle, and clothing preference. (15 Marks)

5. Develop a **mini capsule collection** for one garment based on zero-waste or upcycling themes. (K6 CO5)

V1. Prepare a mood board using cut-outs showing colours and feelings of the chosen theme. (K2 CO1) (15 Marks)

2. Choose an inspiration (nature, architecture, culture) and write how it influences colour and silhouette. (K2 CO1) (15 Marks)

3. Create a customer profile for kids with age, lifestyle, and clothing preference. (K6 CO5) (15 Marks)

4. Analyse how presentation techniques (layout, fonts, framing) impact the visual strength of your portfolio. (K4 CO4) (15 Marks)

5. Develop a **mini capsule collection** for one garment based on zero-waste. (K6 CO5) (15 Marks)

Course Instructor

Dr. Sr. Mary Gilda

Head of the Department

Mrs. Menaka

HEAD OF THE DEPARTMENT
DEPARTMENT OF COSTUME DESIGN & FASHION (S.F.)
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL - 629 004

SEMESTER VI

DISCIPLINE SPECIFIC ELECTIVE III: a) HOME TEXTILES AND FURNISHING

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU236DE1	5	-	-	-	3	5	75	25	75	100

Pre-requisite

Basic knowledge to choose the choice of fabrics for Home Textiles

Learning Objectives

1. To impart knowledge on the various home textile products
2. To gain in sights on the bedlinens, kitchen linens, bathroom linens

Course Outcomes

On the successful completion of the course, students will be able to:		
1	classify the home textile products	**K1**
2	understand the types of floor and wall coverings	**K2**
3	apply the types and functions of kitchen linen	**K3**
4	analyze the types of floor coverings and its maintenance	**K4**
5	evaluate and create the types and uses of bed, kitchen and bathroom linens	**K5 & K6**

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

Teaching Plan with Modules

Total Hours: 75

Unit	Sec	Topics	Hours	Cognitive Level	Pedagogy	Assessment / Evaluation
I	1	Definition of Home Furnishing	2	K1	Lecture, PPT	Assignment
	2	Types of Furnishing Materials – Woven & Non-woven	4	K1, K2	Demonstration with Samples	Short Test
	3	Factors Affecting Selection of Home Furnishings	4	K2, K3	Case Study, Group Discussion	Class Activity
	4	Recent Trends in Home Furnishing	5	K2, K4, K5	Video-based Learning, Market Study	Internal Test – I
II						
	1	Hard Floor Coverings	3	K1, K2	Lecture + PPT	Oral Questions
	2	Resilient Floor Coverings	3	K2	Demonstration using samples	Worksheet
	3	Soft Floor Coverings – Rugs & Carpets	4	K2, K3, K4	Case Study, Sample Identification	Submission
	4	Wall Covering – Types, Use & Care	5	K2, K4	Video Demonstration; Market Examples	Internal Assessment – II
III	1	Doors & Windows – Introduction	2	K1	Lecture	Class Exercise
	2	Curtains & Draperies – Types & Fabric Selection	4	K2, K3	Sample Handling, Demonstration	Preparation of samples

	3	Calculation of Fabric Measurement	3	K3	Numerical Practice; Worksheets	Submission
	4	Methods of Finishing Draperies	3	K4	Demo of rods, hooks, tapes, rings	Practical Worksheet
	5	Use of Drapery Accessories	3	K2, K3	Demonstration + Video	Internal Test – III
IV	1	Introduction to Living Room & Bed Linens	2	K1, K2	PPT & Discussion	Quiz/ preparation of samples
	2	Sofa, Cushion Covers, Upholsteries	4	K2, K3	Demonstration with fabric swatches	Assignment/ sample preparation
	3	Bed Sheets, Comforters, Blankets, Mattress Covers	5	K2, K4, K5	Comparative Study, Handling Samples	Mini Project / Submission
	4	Care & Maintenance of Soft Furnishings	4	K4, K5	Case Study, Cleaning Demo	Internal Assessment – IV
V	1	Kitchen Linens – Types, Uses, Care	6	K3, K4	Sample Display, Demonstration	Submission of samples
	2	Dining Linen – Mats, Holders, Towels	5	K3, K5, K6	Creative Activity – Table Setting	Display & Viva
	3	Bathroom Linen – Types & Uses	4	K2, K5	Video Demo, Practical Handling	Model Exam

Part – A ***(1 marks)***

1. Which of the following is a non-woven furnishing material?(K1 CO-1)
   a) Cotton b) Polyester c) Felt d) Linen
2. The term resilient floor covering refers to: (K1 CO-1)
   a) Hard floor covering b) Flexible floor covering c) Carpet d) Rug
3. Which factor does not affect the selection of home furnishings? (K1 CO-1)
   a) Cost b) Durability c) Weather d) Age of the house

4. Rugs and Carpets come under which category of floor coverings? (K1 CO-1)
   a) Hard b) Soft c) Resilient d) Plastic
5. The top finishing of draperies may include: (K1 CO-1)
   a) Pleats b) Seams c) Lace d) Elastic bands
6. Curtains and draperies are used primarily for: (K1 CO-1)
   a) Decoration b) Privacy and light control c) Insulation d) All of the above
7. Cushion covers are mainly used for: (K1 CO-1)
   a) Floor decoration b) Furniture protection c) Table covering d) Wall decor
8. Which of the following is a kitchen linen item? (K1 CO-1)
   a) Pillow cover b) Apron c) Bedspread d) Blanket
9. Bathroom linens include: (K1 CO-1)
   a) Table mats b) Dish cloth c) Hand towel d) Sofa cover
10. The recent trend in home furnishings emphasizes: (K1 CO-1)
    a) Minimalism and eco-friendly materials
    b) Heavy embroidered textiles
    c) Synthetic fiber usage only
    d) Dark color schemes

Part – B (5 Marks)

1. Explain the factors affecting the selection of home furnishings. (K3 CO-2)
2. Write short notes on the different types of furnishing materials. (K2 CO-2)
3. Describe the classification of woven and non-woven furnishing materials. (K2 CO-2)
4. Discuss recent trends in home furnishing. (K2 CO-2)
5. Explain the types of floor coverings and their advantages. (K3 CO-3)
6. Describe the care and maintenance of rugs and carpets. (K3 CO-3)
7. What are the types of wall coverings? Explain their uses and care. (K2 CO-2)
8. Compare hard floor coverings and soft floor coverings. (K3 CO-3)
9. Discuss the importance of selecting suitable fabrics for curtains and draperies. (K3 CO-3)
10. Write short notes on drapery rods, hooks, tape rings, and pins. (K2 CO-2)

Part – C (12 Marks)

1. Elaborate on the types of furnishing materials and the factors influencing their selection. (K4 CO-4)
2. Analyze the significance of choosing appropriate materials for different areas of the house. (K4 CO-4)
3. Explain in detail the types of floor coverings, their advantages, and maintenance. (K4 CO-4)

4. Evaluate the functional and aesthetic roles of floor and wall coverings in modern interiors. (K5 CO-5)
5. Elucidate the preparation of curtains and draperies — include fabric choice, measurements, and finishing methods. (K5 CO-5)
6. Discuss the importance of design principles in selecting door and window treatments. (K5 CO-5)
7. How will you access the types of living and bedroom linens and their functional importance. (K5 CO-5)
8. Write an elaborate note on the care and storage of bedroom linens. (K4 CO-4)
9. List out the various types of kitchen and dining linens, their uses, and maintenance. (K4 CO-4)
10. Write notes on the texture, pattern, and design principles that influence furnishing aesthetics. . (K5 CO-5)

Course Instructor
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NAGERCOIL
DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department : Costume Design and Fashion
Class : III B.Sc. Costume Design and Fashion
Title of the Course : Discipline Specific Elective IV: A) Boutique Management
Semester : VI
Course Code : DU236DE4

Objectives

1. To impart knowledge of fashion design and the management of a small business
2. To impart skills in apparel production in an Industrial set-up.

Course Outcomes

On the successful completion of the course, students will be able to:		
1.	understand the basic steps in starting a boutique, including location selection, financial planning, and cost estimation	**K1 & K2**
2.	apply knowledge of business registration, taxation, and inventory planning	**K3**
3.	analyse supplier relationships, negotiation techniques, and consumer attraction strategies	**K4**
4.	evaluate the impact of digital tools, billing software, online marketing, and e-commerce in boutique operations	**K5**
5.	develop strategic marketing and branding techniques to enhance sales and manage business risks	**K6**

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

Teaching plan
Total Contact hours*: 75 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**HOW TO START A BOUTIQUE**								
	1	Meaning & Scope of Boutique Business	3	1	K1	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching ,Gamified Quiz, Concept Mapping	Video Lectures,	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	2	How to Start a Boutique – Steps	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching ,Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
	3	Creating a Business Plan	3	1	K3	Lecture with visualization, Concept-based discussion	Collaborative Learning Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment, CIA I.

	4	Finding an Ideal Location	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning Peer Teaching Gamified Quiz, Concept Mapping	Video Lectures	Written Assignment- Oral Presentation, Conceptual Questions, CIA I
	5	Financial Planning – Overview	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching ,Gamifie d Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz, CIA I
II	**PROCEDURES TO START A BOUTIQUE BUSINESS**								
	1	Working Capital & Sales	3	1	K3	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching ,Gamifie d Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA I
	2	Cost of Goods, Expenses, Accounting	3	–	K3	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz,	Video Lecture, Simulation Tool, Interactive Notes,	Written Assignment- Oral Presentation, CIA I

							Concept Mapping		
	3	Insurance, Markdowns, Rent & Taxes	3	–	K2	Lecture with visualization, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Peer Review, Student presentation, Quiz qustioning CIA I
	4	Procedures to Start Boutique – Overview		1	K2	Lecture with Visual Aids such as PPT, Simulation-Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA
	5	Legal Registrations: DIN, PAN, TAN, GST, EPF	3	–	K1	Lecture with Visual Aids such as PPT, Simulation-Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Peer Review, Online assignment, Group Discussion, CIA II
III	**BUYER SUPPLIER RELATIONSHIPS**								
	1	Setting up the Business – Capital, Loans, Equity	3	–	K2	Lecture with Visual Aids such as PPT,	Based Learning, Peer Teaching,	Video Lectures,	MCQ, Discussion, Fill-in-the-blank, CIA II

						Simulation -Based Learning,	Gamified Quiz, Concept Mapping		
	2	Government Norms for Boutique	3	1	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Open Book Test, Assignment Oral Viva CIA II
	3	Interior Designing for Boutique	3	–	K4	Lecture with visualization, Concept-based discussion	Collaborative Learning , Concept Mapping	PowerPoint with graphical representations of coordinate systems	Home work, Assignment, group discussion, peer review, CIA II
	4	Sourcing of Raw Materials	3	1	K3	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Peer Review, Online assignment, Group Discussion, CIA II
	5	Inventory Planning & Control	3	–	K4	Lecture with Visual Aids such	Based Learning , Peer Teaching	Video Lectures,	MCQ, Discussion, Fill-in-the-blank, CIA II

						as PPT, Simulation -Based Learning	, Gamified Quiz, Concept Mapping .		
1V	**ESSENTIAL TECHNOLOGY TO RUN A BOUTIQUE**								
	1	Buyer–Supplier Relationship	3	1	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping .	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Technical Support, Expertise & Resource Support	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II
	3	Customer Relationship Management	3	–	K3	Lecture with visualizati on, Concept-based	Collabor ative Learning , Concept Mapping	PowerPoint with graphical representatio ns of coordinate systems	Presentation, homework, creative writing, group discussion,CIA II

						discussion ,			
	4	Sales Strategies – Window Display, Up-selling	3	1	K4	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Quiz, class test, Brainstroming, Peer review, CIA II
	5	B2B & B2C Marketing Strategies	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching Gamified Quiz, Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment.
V	**SKILLS RELATED TO MARKETING AND PROMOTION AND R&D**								
	1	Essential Technology for Boutique	3	–	K2	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping .	Video Lectures,	Slip test, Discussion, class test, Assignment MCQ, Discussion
	2	Billing, Warehouse & Data Maintenance	3	1	K3	Lecture with Visual	Based Learning , Peer	Video Lecture, Simulation	Oral Quiz, slip test, Assignment.

						Aids such as PPT, Simulation -Based Learning,	Teaching , Gamified Quiz, Concept Mapping	Tool, Interactive Notes,	
	3	Online Boutique Technologies	3	–	K4				MCQ test, Visualization Task, Conceptual Quiz, CIA II
	4	Marketing & Promotion	3	–	K3	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping .	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	5	R&D, SWOT, Risk Management	3	1	K5	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning , Peer Teaching , Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II

***Total Teaching hours include 75 hours allotted for Formative and Summative Assessments**

Course Focussing on Employability/ Entrepreneurship/ Skill Development: Employability/ Entrepreneurship

Activities (Em / En):

- Create your own boutique concept (name, theme, niche market)

- Identifying job roles in a boutique (manager, merchandiser, tailor, VM)

Assignment (En/SD):

- Prepare a boutique business idea (name, logo, niche market & target customer).
- Develop an *online marketing plan* for launching a boutique (social media + website outline).

Part A (1 mark)

1. A boutique business plan mainly helps in _____. (K1 – Remember, CO-1)
   a) Reducing fabric wastage b) Guiding business goals c) Hiring employees d) Stitching garments
2. The amount required for running day-to-day operations is called _____. (K1 – R, CO-1)
   a) Fixed capital b) Working capital c) Gross profit d) Net margin
3. DIN stands for _____. (K1 – R, CO-2)
   a) Director Identification Number b) Department Identification Notice c) Dealer Identification Number d) Digital Identity Number
4. Registration required for goods and service tax is _____. (K1 – R, CO-2)
   a) PAN b) GST c) TAN d) EPF
5. Inventory planning relates to _____. (K2 – U, CO-1)
   a) Employee hiring b) Material and stock control c) GST filing d) Interior designing
6. Window display is a _____ strategy. (K2 – U, CO-1)
   a) Digital marketing b) Visual merchandising c) Networking d) Up-selling
7. B2C marketing focuses on selling products to _____. (K1 – R, CO-2)
   a) Large factories b) Government offices c) Individual consumers d) Retail stores
8. A commonly used billing tool in a boutique is _____. (K1 – R, CO-2)
   a) POS system b) Pattern software c) ERP loom d) Stitching software
9. SWOT analysis is used to identify _____. (K2 – U, CO-2)
   a) Materials b) Strength and weaknesses c) Stitching tools d) Shop rent
10. Quality control ensures _____. (K1 – R, CO-1)
    a) High product standards b) Increased shop rent c) Extra tax filing d) More employees

Part B (6 mark)

1. Explain the steps involved in starting a boutique business. (K2 – Understand, CO-1)
2. Write a short note on creating a business plan for a boutique. (K2 – Understand, CO-1)
3. Describe the procedure for obtaining PAN, TAN, and GST for boutique registration. (K3 – Apply, CO-2)

4. Explain inventory planning and sourcing of raw materials. (K3 – Apply, CO-3)
5. Discuss various ways to attract customers to a boutique. (K2 – Understand, CO-4)
6. Explain B2B and B2C marketing strategies. (K2 – Understand, CO-4)
7. Describe essential technologies required to run a boutique. (K3 – Apply, CO-5)
8. Explain the role of warehouse and billing software. (K3 – Apply, CO-5)
9. What is SWOT analysis? Explain its importance in boutique planning. (K4 – Analyze, CO-5)
10. Describe the importance of quality control and risk management. (K2 – Understand, CO-5)

Part C (12 marks)

1. Explain in detail the complete process of starting a boutique—business plan, budgeting, and choosing an ideal location. (K2 – Understand, CO-1)
2. Describe all registration procedures like PAN, TAN, GST, EPF, DIN, and professional tax for setting up a boutique. (K3 – Apply, CO-2)
3. Discuss boutique setup: interior design, sourcing raw materials, and inventory planning. (K3 – Apply, CO-3)
4. Explain buyer–supplier relationship management—technical support, service level, expertise, and risk reduction. (K4 – Analyze, CO-4)
5. Describe customer attraction techniques: window display, networking, subtle up-selling, and sales forecasting. (K2 – Understand, CO-4)
6. Explain B2B and B2C strategies with examples from boutique business. (K4 – Analyze, CO-4)
7. Discuss essential boutique technologies—warehouse system, billing software, online/offline marketing tools, and website creation. (K3 – Apply, CO-5)
8. Explain digital marketing, print media, and social media advertising for a boutique. (K2 – Understand, CO-5)
9. Discuss quality control, research & development, SWOT analysis, and internal & external risk management. (K4 – Analyze, CO-5)
10. Describe complete marketing & promotion strategies—branding, pricing, advertising, customer retention. (K6 – Create, CO-5)

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Course Instructor

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DEPARTMENT OF COSTUME DESIGN and FASHION
Teaching Plan

Department	**:**	**Costume Design and Fashion**
Class	**:**	**III B.Sc. Costume Design and Fashion**
Title of the Course	**:**	**Professional Competency Skill II: Business Start Up**
Semester	**:**	**VI**
Course Code	**:**	**DU236PS1**

Objectives:

1. To impart skill in starting a business.
2. To gain knowledge about business planning and evaluation.

Course Outcomes:

On the successful completion of the course student will be able to:		
1.	define key terminologies related to business startups	**K1 & K2**
2	apply methods to generate and screen business ideas from multiple sources	**K3**
3	analyze market segments and gaps using business model canvas and SWOT analysis	**K4**
4	assess startup funding options and MSME/government schemes for strategic financial planning	**K5**
5	develop comprehensive IP strategies for startups including patents, trademarks, brands, and copyrights	**K6**

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

Teaching plan
Total Contact hours*: 30 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Assessment Hours	Cognitive level	Pedagogy	Student Centric Method	E-Resources	Assessment/ Evaluation Methods
I	**BUSINESS STARTUP – AN INTRODUCTION**								
	1	Business startup – terms and definition	2	1	K1-R	Lecture with Visual Aids such as PPT, Simulation	Based Learning, Peer Teaching,Gamified Quiz,	Video Lectures,	Written Assignment- Oral Presentation, Conceptual Questions, CIA I

						-Based Learning	Concept Mapping		
	2	Introduction to pain points, identification of pain points	2		K2-U	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching,Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	MCQ test, Visualization Task, Conceptual Quiz,
	3	Empathize with Customer Problems, market survey, develop prototype, gather prototype feedback	3	1	K3-Ap	Lecture with visualization, Concept-based discussion	Collaborative Learning Concept Mapping	PowerPoint with graphical representations of coordinate systems	Oral Quiz, slip test, Assignment, CIA I.
II	**BUSINESS IDEAS AND OPPORTUNITIES**								
	1	Gather sources of ideas, identify business opportunities	3	1	K2-U	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching,Gamified Quiz, Concept Mapping	Video Lectures,	Open Book Test, Assignment Oral Viva, CIA I
	2	Evaluation of business opportunities, BCG Matrix	2	1	K3-Ap	Lecture with Visual Aids such as PPT,	Based Learning, Peer Teaching, Gamified	Video Lecture, Simulation Tool,	Written Assignment- Oral Presentation, CIA I

						Simulation -Based Learning,	Quiz, Concept Mapping	Interacti ve Notes,	
	3	Brainstorm worksheet, study of export/import data, government policies, trade fairs, abroad trends	2	1	K2-U	Lecture with visualizati on, Concept-based discussion	Collaborative Learning, Concept Mapping	PowerPo int with graphical represent ations of coordinat e systems	Peer Review, Student presentation, Quiz qustioning CIA I
III	**BUSINESS PLAN**								
	1	Prepare business plan, perform business model canvas	3	1	K3-Ap	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lectures,	MCQ, Discussion, Fill-in-the-blank, CIA II
	2	Identify market gap and potential customers	2	1	K2-U	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulati on Tool, Interacti ve Notes,	Open Book Test, Assignment
	3	Understand target segment, evaluate target customer	2	1	K3-Ap	Lecture with visualizati on,	Collaborative Learning, Concept Mapping	PowerPo int with graphical represent ations of	Home work, Assignment, group discussion,

						Concept-based discussion		coordinate systems	
	4	Value proposition canvas, SWOT analysis, competitor analysis	3	1	K3-Ap	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Peer Review, Online assignment, Group Discussion, CIA II
1V	**FINANCIAL STATUS AND ANALYSIS**								
	1	Introduction to financial statements, financial analysis	3	1	K2-U	Lecture with Visual Aids such as PPT, Simulation -Based Learning	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Value proposition financial feasibility	2	1	K3-Ap	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II
	3	Revenue stream, cost structure	2	1	K3-Ap	Lecture with visualization,	Collaborative Learning, Concept Mapping	PowerPoint with graphical representations of	Presentation, homework, creative writing, group discussion,

						Concept-based discussion,		coordinate systems	
	4	MSME schemes, government schemes and subsidy, difference between angel investor and venture capitalist	2	1	K2-U	Lecture with Visual Aids such as PPT, Simulation-Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Quiz, class test, Brainstroming, Peer review, CIA II
V	**INTELLECTUAL PROPERTY RIGHTS**								
	1	IPR in fashion business, Patents: meaning, law, what can be patented	3	1	K1-R	Lecture with Visual Aids such as PPT, Simulation-Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping.	Video Lectures,	Peer Review, MCQ, Orai Quiz, Open Book Test, CIA II
	2	Conditions of patent, rights of patentees	2	1	K2-U	Lecture with Visual Aids such as PPT, Simulation-Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulation Tool, Interactive Notes,	Quiz, class test, Brainstroming, Peer review
	3	Trademark: meaning, definition; Brand definitions, distinction	2	1	K2-U	Lecture with Visual Aids such	Based Learning, Peer Teaching,	Video Lecture, Simulation Tool,	Peer Review, Online assignment, Group Discussion, CIA II

		between Trademark and Brand				as PPT, Simulation -Based Learning	Gamified Quiz, Concept Mapping	Interacti ve Notes,	
	4	Copyright: meaning, concept, features	2	1	K1-R	Lecture with Visual Aids such as PPT, Simulation -Based Learning,	Based Learning, Peer Teaching, Gamified Quiz, Concept Mapping	Video Lecture, Simulati on Tool, Interacti ve Notes,	Slip test, Discussion, class test, Assignment MCQ, Discussion, Fill-in-the-blank, CIA II

Total Teaching hours include 30 hours allotted for Formative and Summative Assessments

Course Focussing on Employability/ Entrepreneurship/ Skill Development

Activities (Em/ En):

- Skill Development: Identifying customer pain points, developing prototypes.
- Employability: Understanding startup terminology and industry workflow.
- Entrepreneurship: Applying empathy to customer problems and market research.

Assignment (Em/ En):

- Create a business model canvas and SWOT analysis for your proposed startup idea.
- Develop a strategy for protecting your product idea using patents, trademarks, or copyright.

Part A (1 mark)

1. The first step in a business startup is identifying _____. (K1-R, CO-1)
   a) Revenue stream b) Pain points c) Market share d) Prototype
2. A _____ is developed to test a product idea before full launch. (K1-R, CO-1)
   a) Prototype b) Trademark c) Balance sheet d) BCG Matrix
3. BCG Matrix is used to evaluate business _____. (K2-U, CO-1)
   a) Profit b) Opportunities c) Patents d) Market surveys

4. SWOT analysis helps identify strengths, weaknesses, opportunities, and _____. (K2-U, CO-2)
   a) Customers b) Investors c) Threats d) Competitors

5. A business model _____ visualizes how a business creates and delivers value. (K3-Ap, CO-1)
   a) SWOT b) Canvas c) Prototype d) BCG

6. The difference between revenue and expense is called _____. (K1-R, CO-1)
   a) Cost b) Profit c) Equity d) Investment

7. MSME stands for Micro, Small, and _____ Enterprises. (K1-R, CO-2)
   a) Medium b) Major c) Manufacturing d) Market

8. A venture capitalist provides funds in exchange for _____ in a startup. (K2-U, CO-2)
   a) Debt b) Equity c) Patent d) Trademark

9. A _____ protects inventions for a specific period. (K1-R, CO-1)
   a) Trademark b) Patent c) Copyright d) Brand

10. A _____ distinguishes one brand from another in the market. (K1-R, CO-1)
    a) Trademark b) Patent c) Prototype d) Value proposition

Part B (6 mark)

1. Explain the concept of a business startup and the importance of identifying customer pain points. (K2-U, CO-1)
2. Describe the process of developing a prototype and gathering feedback from potential customers. (K3-Ap, CO-1)
3. Explain how to evaluate business opportunities using the BCG Matrix with examples. (K3-Ap, CO-2)
4. Discuss how SWOT analysis and value proposition canvas help in strategic planning for a startup. (K3-Ap, CO-3)
5. Explain the differences between angel investors and venture capitalists in startup funding. (K2-U, CO-4)

Part C (12 marks)

1. Discuss how SWOT analysis and business model canvas help in designing a startup strategy. Illustrate with a case study of a fashion or small-scale business. (K3-Ap, CO-3)
2. Explain in detail how to analyze financial statements, evaluate revenue streams, cost structures, and assess the financial feasibility of a startup. (K3-Ap, CO-4)

3. Compare and contrast angel investors and venture capitalists in terms of funding, ownership, and strategic support to startups. Provide examples. (K3-Ap, CO-4)
4. Explain the different types of Intellectual Property Rights – patents, trademarks, and copyrights – and discuss their importance for startups in the fashion or business domain. (K3-Ap, CO-5)
5. Discuss in detail how entrepreneurs can protect their business ideas using IPR, and explain real-life examples where IPR helped a business succeed. (K3-Ap, CO-5)

Head of the Department

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DEPARTMENT OF COSTUME DESIGN &
FASHION (S.F.)
HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL 629 004

Course Instructor