Holy Cross College (Autonomous), Nagercoil

Kanyakumari District, Tamil Nadu.

Accredited with A^{+} by NAAC - IV cycle – CGPA 3.35

Affiliated to
Manonmaniam Sundaranar University, Tirunelveli

DEPARTMENT OF COSTUME DESIGN AND FASHION
SYLLABUS FOR UNDERGRADUATE PROGRAMME

TEACHING PLAN

EVEN SEMESTER

2024 – 2025

Vision

The vision of our department is to enlighten and educate the youth with the current fashion and 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.

Programme Educational Objectives (PEOs)

PEOs	Upon completion of B.Sc. Degree Programme, the graduateswill be able to	Mapping with Mission
PEO 1	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**
PEO 2	use practical knowledge for developing professional empowerment and entrepreneurship and societal services.	**M2, M3, M4 & M5**
PEO 3	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
PO 1	obtain comprehensive knowledge and skills to pursue higher studies in the relevant field of science.	**PEO1**
PO 2	create innovative ideas to enhance entrepreneurial skills for economic independence.	**PEO2**
PO 3	reflect upon green initiatives and take responsible steps to build a sustainable environment.	**PEO2**
PO 4	enhance leadership qualities, team spirit and communication skills to face challenging competitive examinations for a better developmental career.	**PEO1 & PEO3**
PO 5	communicate effectively and collaborate successfully with peers to become competent professionals.	**PEO2 & PEO3**
PO 6	absorb ethical, moral and social values in personal and social life leading to highly cultured and civilized personality	**PEO2 & PEO3**
PO 7	participate in learning activities throughout life, through self-paced and self-directed learning to improve knowledge and skills.	**PEO1 & PEO3**

Programme Specific Outcomes (PSOs)

PSO	Upon completion of B.SC Costume Design and Fashion the graduates will be able to
PSO 1	create innovative products in the fashion and textile industry by analyzing the textile materials, styles, designs and client specifications to integrate new developments in fashion and textile industry through quality standards
PSO 2	apply the specialized skills to manage with the available indigenous materials for sustainability in textiles.
PSO 3	develop portfolio presentations from fibre to fashionable garments and exhibit the same through fashion shows to excel as fashion designers and globally competitive entrepreneurs
PSO 4	recognize and analyze every single person's personality that suits their clothing.

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 : DU242CC1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU242CC1	5	-	-	-	5	5	75	25	75	100

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

CO	Upon completion of this course, the students will be able to	PSO addressed	Cognitive level
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 – 4	K5
CO - 5	Create the pattern with required style and measurement and grade them.	PSO – 5	K6

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

Teaching plan

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

Unit	Module	Topic	Teaching Hours	Cognitive level	Pedagogy	Assessment / Evaluation
I	**PATTERN MAKING METHODS**					
	1.	Methods of Pattern Making- Drafting, Draping and Flat pattern methods. Drafting- Principles of drafting. Steps in drafting children' sand adult's bodice and sleeve patterns. Flat pattern techniques- Definition, Pivot, Slash and Spread method.	15	K1&K2- Remember & Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
II	**COMMERCIAL PATTERN**					
	1	Study of commercial pattern and body measurements –Birth of commercial pattern, Preparation of commercial pattern. Body measurements – importance and Principles of taking body measurements. Method of taking body measurements for different garments.	15	K1&K2- Remember & Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Check knowledge in specific or off best situations, illustrate the different concept
III	**PATTERN LAYOUT**					

IV	**FITTING AND ALTERATION**					
	1	Fitting-Definition-Principles for good fit. Causes for poor fit, checking the fit of a garment, solving fitting problems invarious garments, basic principles. Fitting techniques. Pattern alteration– importance of altering patterns. Principles for pattern alteration.	**15**	K5-Evaluate	Lecture using Chalk and talk, Introductory session, Group Discussion, You Tube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
V	**PATTERN GRADING**					
	1	Grading- Definition, Types (Manual and Computerized). Manual- Master Grade, Basic back, Basic Front, Basic collar. Computerized grading technology- Information Flow, System description, process involved in pattern grading.	**15**	K6-Create	Lecture using Chalk and talk, Introductory session, Group Discussion, You Tube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations

Employability

1. Pattern designer
2. Pattern maker
3. Production pattern maker

Entrepreneurship

1. Designer boutique
2. Pattern maker

Activities (Em/ En/SD):

1. Draw pattern in different types of garment
2. Measure the body measurement in a particular garment.

Assignment

1. Write about how to solve the fitting problem
2. Make the pattern for the Monique.

Sample Question

Part - A

Choose the correct answer: (10×1=10 marks)

1. ----------is the method of enlarging and reducing a pattern proportionately to some other size.
(a) Drafting (b) Draping (c) Grading (d) None of the above
2. Accuracy and cost is high in ------- grading.
(a) Manual (b) Master (c) Compute (d) All
3. Difference between the actual body measurement and the garment measurement
(a) set (b) line (c) ease (d) grain
4. If a fabric has no wrinkles it has ------
(a) set (b) line (c) ease (d) grain
5. The system of drawing patterns on paper is
(a) Drafting (b) Draping (c) Drawing (d) Flat pattern designing
6. Measurement from the neck joint to the arm joint along the middle of the shoulder is ----
(a) shoulder (b) armscye (c) neck length (d) neck width
7. In pattern layout leave enough space between patterns for cutting
(a) economically (b) outward notches (c) accurately (d) none
8------layout is most suitable when narrow
pieces have to be cut on fold.
(a) open (b) lengthwise centre fold (c) off centre lengthwise fold (d) crosswise centre fold
9. Identify the fastest and most efficient method for developing patterns, wherein the
basic
block is modified to develop new and varied styles
(a) pattern drafting (b) draping (c) dart manipulation (d) Flat pattern making
10. Which of the following save time and effort but is expensive?
(a) personal pattern (b) flat patterns (c) commercial pattern (d) none of the above

Part - B

Answer any five all Questions (5 X 5 = 25 marks).

1. What do you mean by flat pattern making?
2. Write a note on commercial patterns.
3. Write about pattern layout for fabric with bold design.
4. Write about the importance of altering patterns.
5. Write short notes on the steps in drafting basic bodies front for women
6. Explain the importance of body measurements
7. What do you mean by flat pattern making?

8. How will you grade a basic back?

Part – C

Answer any Five Questions (5 X 8 = 40 marks)

9. Explain the methods of pattern making
10. Explain about preparation of commercial pattern.
11. Explain in the following types of layout with a neat diagram:
    - Open layout
    - Double fold
    - length wise fold
    - combination fold
12. Explain the principles for good fit.
13. Explain about fitting techniques in a garment.
14. Elaborate on computerized grading.
15. Discuss about different types of pattern grading.

A. Anto Freeda

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

Course Instructor **Head of the Department**

Mrs. A. Anto Freeda **Mrs. A. Anto Freeda**

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**

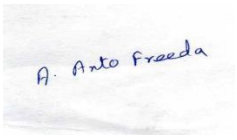
Teaching Plan with Modules

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 open, puff sleeve, yoke at chest and gathers	2	K3 and K4	Experimental Learning	Observation and Demonstration Revision - I
	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 skirt	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



Course Instructor **Head of the Department**

Dr. Sr. Mary Gilda **Mrs. A. Anto Freeda**

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: 60 (Including lectures, assignments and tests

Unit	Module	Topic	Teaching Hours	Cognitive level	Pedagogy	Assessment/ Evaluation
I	**PREPARATORY PROCESS**					
	1.	Preparatory processes	1	K1(R)	Lecture using PPT and talk, Introductory session, Group Discussion, You Tube Video	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	2.	Typical sequence of wet processing.	1	K1(R)	Lecture using PPT and talk, Introductory session, Group Discussion, You Tube Video	Simple definitions, MCQ, Recall steps, Concept definitions
	3.	Singeing – objects and types of Machines.	1	K1(R)	Lecture using PPT and talk, You Tube Videos	Simple definitions, MCQ, Recall steps, Concept definitions
	4	Desizing – objects, types.	1	K1(R)	Lecture using PPT and talk, You Tube Videos	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	5	Scouring - objects and processes carried out during scouring.	1	K1(R)	Lecture using PPT and talk, You Tube Videos	Simple definitions, MCQ, Recall steps, Concept definitions
	6	Wet processing equipment – Kier, J – Box, Stenter.	1	K1(R)	Lecture using PPT and talk, You Tube Videos and Experimental Learning	Simple definitions, MCQ, Recall steps, Concept definitions
	7	Bleaching – Definition and objectives, Bleaching methods using Hypo chlorites, hydrogen	1	K1(R)	Lecture using PPT and talk, You Tube Videos and	Evaluation through short test, MCQ, True/False, Short essays,

		peroxide, Sodium chlorite.			Experimental Learning	Concept explanations,
	8	Mercerization- Theory process, Methods – Chain and Chainless process	1	K1(R)	Lecture using PPT and talk,	Simple definitions, MCQ, Recall steps, Concept definitions
II	**DYEING METHODS**					
	1	Dyeing– Definition, Theory of dyeing, Properties required for dye stuff, classification of colorants.	1	K2(U)	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	2	Classification of colorants.	1	K2(U)	Lecture using PPT and talk, Group Discussion	Simple definitions, MCQ, Recall steps, Concept definitions
	3	Dyeing procedure using various dye stuffs – Direct dyes, Reactive dyes,	2	K2(U)	Lecture using PPT and talk, Experimental Learning	Longer essay/ Evaluation essay
	4	Acid dyes, basic dyes	2	K2(U)	Lecture using PPT and talk, Experimental Learning	Longer essay/ Evaluation essay
	5	Azo dyes, Vat dyes,	2	K2(U)	Lecture using PPT and talk, Experimental Learning	Check knowledge in specific or off beat situations, Illustrate the different concept
	6	Sulphur dyes, Disperse dyes.	2	K2(U)	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, Seminar
	7	Yarn dyeing, Package dyeing,	1	K2(U)	Lecture using PPT and talk, Group Discussion	Check knowledge in specific or off beat situations, Illustrate the different concept
	8	Fabric dyeing and Garment dyeing	1	K2(U)	Lecture using PPT and talk, Group Discussion	Check knowledge in specific or offbeat

						situations, Illustrate the different concept
III	**PRINTING AND ITS METHODS**					
	1	Printing – definition differentiate dyeing and printing.	1	K3(AP)	Lecture using PPT and talk, Experimental Learning Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	2	Essential ingredients used in printing paste.	1	K3(AP)	Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	3	Basic styles of printing – direct, Discharge, Resist style.	2	K3(AP)	Lecture using PPT and talk	Simple definitions, MCQ, Recall steps, Concept definitions
	4	Printing of Cellulose Fabric,	2	K3(AP)	Lecture using PPT & Experimental Learning	Simple definitions, MCQ, Recall steps, Concept definitions
	5	Printing of Polyester and Nylon.	2	K3(AP)	Lecture using PPT & Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	6	Printing methods – Stencil, Batik, Block, tie and Dye.	2	K3(AP)	Lecture using PPT & Experimental Learning	Simple definitions, MCQ, Recall steps, Concept definitions
	7	Printing techniques in Industries – Screen, Hand screen	2	K3(AP)	Lecture using PPT & Experimental Learning	Simple definitions, MCQ, Recall steps, Concept definitions
	8	Flat Screen, Rotary Screen, Transfer Printing.	2	K3(AP)	Lecture using PPT & Experimental Learning	Evaluation through short test, MCQ, True/False,

						Short essays, Concept explanations,
IV	**AESTHETIC OF FINISHING**					
	1	Introduction to finishing – Definition, Importance,	2	K4(AN)	Lecture using PPT & Experimental Learning	Longer essay/ Evaluation of essay
	2	Classification. Mechanical Finishing	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Longer essay/ Evaluation of essay
	3	Sanforising – calendaring –	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Longer essay/ Evaluation essay
	4	Brushing – Decating	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	5	Milling. Chemical finishing –	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	6	wash and wear finishing, durable finish,	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Simple definitions, MCQ, Recall steps, Concept definitions
	7	Stiff Finish, Denim Finish,	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Simple definitions, MCQ, Recall steps, Concept definitions
	8	Application of silicones in finishing processes	2	K4(AN)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
V	**FUNCTIONAL FINISHING**					

	1	Functional finishes –	1	K5(E) & K6 (C)	Lecture using Chalk and talk, Introductory session, Group Discussion, Power point presentation	Longer essay/ Evaluate longer essay
	2	Water proof finishes,	1	K5(E) & K6 (C)	Lecture using Chalk and talk, Introductory session, Group Discussion	Longer essay/ Evaluate longer essay
	3	Water repellent finish,.	1	K5(E) & K6 (C)	Lecture using Chalk and talk, Introductory session, Group Discussion	Longer essay/ Evaluate onger essay
	4	Flame retardant finish,	1	K5(E) & K6 (C)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	5	Soil release finish,	1	K5(E) & K6 (C)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	6	Antimicrobial finish.	1	K5(E) & K6 (C)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	7	Nano Technology in Textile finishing	1	K5(E) & K6 (C)	Lecture using PPT and talk, Introductory session, Group Discussion	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,

Employability

1. Fashion Designer
2. Industrial Engineer
3. Fashion Merchandiser
4. Fashion Journalist

5. Quality In charge
6. Quality Supervisor
7. Quality Control Supervisor

Entrepreneurship

1. Production Process
2. Laying Marking and cutting
3. Garment components and its stylings

Activities (Em/ En/SD):

1. Different types of natural dyes applied in Fabric
2. Different types of Printing applied in Fabric
3. Experiential Learning- Industrial Visit

Assignment

1. Seminar-Different Types of Natural Dyes
2. Collect various printing techniques available in market

Sample questions

PART: A

Choose the correct answer

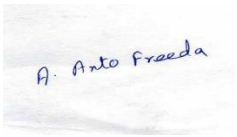
1._____ remove the short fibers from the textile materials.
a Sizing C Scouring b Singeing D Bleaching
2 The process by which the natural color of a fiber can be removed and make the textile material pure white and bright is called _____.
a Scouring d Singeing c. De-sizing d. Bleaching
3 Acid dyes are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

Part B Answer All questions

11 Write in detail about the objectives and the types of singeing process.
12. Describe the scouring process with neat diagram.
13. Write short note on classification of colorant and its properties.
14. Explain about the direct dye and its procedure.
15. Describe the loose cotton fibre dyeing with neat diagram.
16. Write short notes on yarn dyeing with neat diagram.
17. Discuss in details about the the essential ingredients used in printing paste.
18. Different between dyeing and printing.
19. Explain the methods of hand printing techniques.
20. Describe in detail about the transfer printing.

Part C Answer All questions)

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



Mrs.T.Menaka

Course Instructor **Head of the Department**

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 II: Textile Wet Processing Laboratory
Semester : II
Course Code : DU242EP1

Course Code	L	T	P	Credits	Inst. Hours	Total Hours	Marks		
							CIA	External	Total
DU242EP1	2	-	-	-	2	2	30	25	100

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: 30 (Including lectures, assignments and tests)

Unit	Module	Topic	Teaching Hours	Cognitive level	Pedagogy	Assessment/ Evaluation
I	**PREPARATION OF SAMPLES FOR PROCESSING**					
	1.	Color Fastness to Washing	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	2.	Color Fastness to Laundrometer	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	3.	Color Fastness to Light	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
II	**PREPARATION OF SAMPLES FOR PROCESSING**					
	1	Desizing	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	2	Scouring	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	3	Peroxide Bleaching	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	4	Hypochlorite Bleaching	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	5	Mercerizing	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
III	**PREPARATION OF SAMPLES USING SUITABLE DYES**					
	1	Direct Dye (Any two Natural Dyes)	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	2	Hot Brand Reactive Dyes	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically

	3	Cold Brand Reactive Dyes	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
IV	**PREPARATION OF SAMPLES USING SUITABLE DYES**					
	1	Acid Dyes.	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	2	Basic Dyes	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	3	Sulphur Dyes	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	4	Vat Dyes	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
V	**Print the given fabric by following printing techniques**					
	1	Batik	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	2	Block and Stencil	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	3	Tie and Dye	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically
	4	Hand Screen Printing	2	K3(AP)	Introductory session, Experimental Learning	Evaluation through Practically

Employability

1. Fashion Designer
2. Industrial Engineer
3. Fashion Merchandiser
4. Fashion Journalist
5. Quality In charge
6. Quality Supervisor
7. Fabric Coordinator

Entrepreneurship

1. Print the fabric using batik
2. Print the fabric block and stencil
3. Print the fabric using Tie and Dye

4. Print the fabric using Hand Screen Printing

Activities (Em/ En/SD):

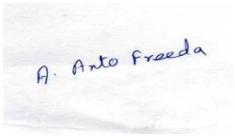
1. Print the fabric using batik
2. Print the fabric block and stencil
3. Print the fabric using Tie and Dye
4. Print the fabric using Hand Screen Printing

ALLOCATION OF MARKS EXTERNAL MARKS (75 MARKS)

Procedure	:	30 Marks
Sample	:	20 Marks
Calculation	:	5 Marks
Result	:	5 Marks
Record	:	10 Marks
Viva- Voce	:	5 Marks ‘
Total	:	75 Marks

Sample Questions

I a. De-sized the given grey fabric using suitable chemicals.
b. Prepare a stencil card &Design a fabric using stencil printing.
II a. Scoured the given fabric & calculate the efficiency of scouring.
b. Prepare a Tie & Dye sample using straight-line effect.
III a. Bleach the given fabric using hydrogen peroxide.
b. Prepare any design using vegetables.
IV a. Dye the given fabric sample using direct dyes in 8%.
b. Prepare the given fabric sample using any block printing .
V a. Dye the given fabric sample using Cold Reactive dyes 8%.
b. Prepare a Tie & Dye sample using coins effect.
VI a. Dye the given fabric sample using Hot Reactive dyes 8%.
b. Prepare a Batik sample using any one technique
VI a. Prepare the given sample using colour fastness to washing
b.Prepare a Tie & Dye sample using coins effect.
VII a. Prepare the given sample using colour fastness to Laundrometer
b. Prepare a stencil card &Design a fabric using stencil printing
VII a. Prepare the given sample using colour fastness to Light
b. Prepare a Tie & Dye sample using straight-line effect.



Mrs.T.Menaka

Course Instructor **Head of the Department**

SEMESTER II

SKILL ENHANC EMNET COURSE (SEC) -I: FASHION SKETCHING- LAB COURSE

Course Code: DU242SE1

Hours/Week	Credits	Total hours	Marks
2	2	30	100

Learning Objectives:

1. To impart skills in drawing and coloring.
2. To illustrate garment sketches for children, women and men.

Course Outcomes

Upon the successful completion of the course, students will be able to:		Cognitive Level
1	sketch and remember the parts of the body in various perspectives.	**K1 and K2**
2	understand the different views of male and female face	**K3**
3	illustrate and apply garment designs for children	**K4**
4	analyse the garment designs for women.	**K5**
5	evaluate and create garment designs for men	**K6**

Teaching Plan with Modules

Total hours: 30 (Practical - Demonstration, Observation, Display, Test)

Unit	Section	Topics	Hours	Cognitive Level	Pedagogy	Assessment/ Evaluation
I	1	Introduction to Illustration	1	K1 and K2	Lecture and Discussion	Assignment
	2	Illustrate the eyes for male and female with different perspectives	1	K3 and K5	Experimental learning	Discussion and Sample Submission
	3	Illustrate the ears and nose for male and female	1	K2 and K3	Lecture with PPT and Demonstration	Discussion and Sample Submission
	4	Lips and hair styles for male and female	1	K4 and K6	Experiential Learning	Presentation and Display Class Test - I
	5	Arms and Legs styles for male and female	2	K4 and K6	Experiential Learning	Sample Submission
II	1	Sketch the face of male and female with front view	2	K1 and K2	Lecture with PPT	Observation
	2	Sketch the three quarter turned view	2	K2 and K3	Discussion and Lecture	Display of the Draft
	3	Sketch the side view	2	K2, K3, K4 and K6	Lecture	Observation and submission of charts Quiz – I and 1st Internal
III	1	Illustrate the bib, apply designs and colors using any medium	1	K3 and K4	Demonstration and Experimental Learning	Submission of samples

	2	Jabla with knicker	1	K3 and K4	Experimental Learning and Lecture with PPT	Observation and Demonstration Revision - I
	3	Baba suit	2	K3 and K6	Experiential Learning	Demonstration and Display
	4	Frocks	2	K3,K4 and K6	Demonstration	Display and Submission of samples
IV	1	Illustrate women's skirts, apply designs and colors following any medium	1	K3 and K4	Experimental Learning	Submission Class Test – 2 Quiz – 2
	2	Illustrate ladies tops	1	K3 and K6	Demonstration	Assignment and Submission
	3	Illustrate ladies salwar		K3 and K6	Discussion and Presentation	Observation and Sample Submission 2nd Internal test
	4	Illustrate ladies Kameez	1	K3,K4 and K6	Demonstration	Demonstration and Submission
	5	Illustrate ladies Maxi/ Gown	1	K3,K4 and K6	Experiential Learning (PPT)	Presentation and Sample Submission
	6	Illustrate ladies Dungarees	1	K3,K4 and K6	Experiential Learning	Presentation and Sample Submission
V	1	Illustrate Men's T-skirt by applying any creative designs and colors using any medium	1	K2 and K3	Demonstration and Display	Submission and Revision – II Quiz – III
	2	Illustrate Men's shirts	2	K2 and K3	Experimental Learning	Observation and Sample Submission
	3	Illustrate Men's Pants	1	K3 , K4 and K6	Experiential Learning	Submission of records and samples Revision - III
	4	Illustrate Men's Kurta and Illustrate Men's Pijama	2	K3 , K4 and K6	Experiential Learning and Lecture with PPT	Submission and Model Exam

Course Instructor **Head of the Department**

Dr. Sr. Mary Gilda **Mrs. A. Anto Freeda**

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 Iv: Textile Testing And Quality Control
Semester : IV
Course Code : DU234CC1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234CC1	5	-	-	-	5	5	75	25	75	100

Objectives

1. To Identify the type of fibres.
2. To test the yarn count and fabric count.

Course Outcomes

CO	Upon completion of this course, the students will be able to	PSO addressed	Cognitive level
1	Explain the textile and quality control		**K1**
2	Agree the standard and specification in textile industry.		**K2**
3	Apply and analyze the identification of textile fibres		**K3 &K4**
4	Identify and evaluate the yarn analyze in textile industry.		**K5**
5	Assess and create the fabric analyze in testing		**K6**

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

Teaching plan

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

Unit	module	Topic	Teaching Hours	Cognitive level	Pedagogy	Assessment/ Evaluation
I	**Textile and Quality Control**					
	1	Introduction to Textile and Quality Control – Definition, General Aspects of Textile Testing and Quality Control,	6	K1& K2 – Remember & Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
	2	Routine Tests Performed in Textile Industry	3	K2 – Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
	3	Benefits of Testing, International Standards for Textile and Apparel Testing.	6	K2 – Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
II	**Fibre Analysis**					
		Identification of Textile	4	K2 – Understand	Lecture using Chalk and	Evaluation through short

	1	Fibre – Burning, Solvent, Longitudinal and Cross-Sectional View of Cotton			talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	test, MCQ, True/False, Short essays, Concept explanations
	2	Identification of Textile Fibre – Burning, Solvent, Longitudinal and Cross-Sectional View of Wool, Polyester	4	K2 – Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
	3	Identification of Textile Fibre – Burning, Solvent, Longitudinal and Cross-Sectional View of Nylon, Acrylic Fibres	4	K2 – Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations
	4	Cotton Fibre Length, Cotton Fibre Strength, Fibre Fineness and Nep Potential – Trash.	3	K2 – Understand	Lecture using Chalk and talk, Introductory session, Group Discussion, YouTube Video, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations

III	**Yarn Analysis**					
	1	Yarn Numbering, Yarn Strength, Twist Testing	5	K2 – Understand	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	2	, Additional Test for Fibres and Yarn – Microscope, Weight Method	5	K2 – Understand	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
	3	, Additional Test for Fibres and Yarn - Air Flow Method, Wet Strength and Elongation of Filament Yarn, Crimp.	5	K2 – Understand	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,
IV	**Fabric Analysis**					
	1	Length, Width, Bow, Skewness, Weight, Thickness, Breaking Strength	7	K3 – Apply	Lecture using PPT and talk, Experimental Learning	Evaluation through short test, MCQ, True/False, Short essays, Concept explanations,

Employability

1. Quality In charge
2. Quality Supervisor
3. Quality Control Supervisor
4. Industrial Engineer

Entrepreneurship

1. Q-SUN testers
2. Quality manager

Activities (Em/ En/SD)

1. Count the Yarn in warp and weft directions
2. Identify the Textile Fibre

Assignment

1. Write about the testing method of fibres
2. Find out the international standard for textiles

Sample questions

PART: A

Choose the correct answer: (10×1=10 marks)

1. he process of evaluating the properties of a textile material to ensure its quality is known as _____.
   a) Textile Weaving
   b) Textile Testing
   c) Fabric Production
   d) Dyeing

   Answer: b) Textile Testing

2. _____ is the method used to identify textile fibres by observing how they burn in the presence of a flame.
   a) Microscopic Analysis
   b) Burning Test
   c) Solvent Test
   d) Twist Test

   Answer: b) Burning Test

3. The _____ test measures the resistance of a textile fabric to the action of friction, often simulating wear.
   a) Abrasion Resistance
   b) Breaking Strength
   c) Tensile Strength
   d) Elongation Test

   Answer: a) Abrasion Resistance

4. The term _____ refers to the length of the individual cotton fibres, which is an important factor in yarn spinning.
   a) Cotton Strength
   b) Fibre Length
   c) Fibre Diameter
   d) Fibre Twist

   Answer: b) Fibre Length

5. _____ is a test used to determine the strength of a yarn by applying a tensile force until it breaks.
   a) Wet Strength Test
   b) Elongation Test
   c) Twist Test
   d) Tensile Strength Test

   Answer: d) Tensile Strength Test

6. In fabric analysis, _____ refers to the angular deviation in the fabric, which causes the fabric to be off-grain.
   a) Bow
   b) Skewness
   c) Stiffness
   d) Crimp

   Answer: b) Skewness

7. The _____ test determines the ability of a textile to recover its original shape after being creased or wrinkled.
   a) Crease Recovery
   b) Breaking Strength
   c) Elongation Test
   d) Stiffness Test

   Answer: a) Crease Recovery

8. The _____ method is used to measure the flow of air through a fabric to assess its porosity or permeability.
   a) Air Flow Method
   b) Weight Method
   c) Solvent Method
   d) Microscopic Method

   Answer: a) Air Flow Method

9. In the context of textile testing, _____ refers to the ability of a fabric to resist colour change or fading when exposed to sunlight.
   a) Colour Fastness to Sunlight
   b) Colour Fastness to Perspiration

c) Crocking Test
d) Laundering Test

Answer: a) Colour Fastness to Sunlight

10. The _____ test in textile quality control assesses the fabric's resistance to washing and the impact of detergents and temperature on colour retention.
    a) Laundering Test
    b) Perspiration Test
    c) Crocking Test
    d) Sunlight Test

Answer: a) Laundering Test

Part - B

Answer any five all Questions (5 X 5 = 25 marks).

1. Describe the various routine tests performed in textile industry quality control.
2. Elaborate on the role of international standards in textile and apparel testing.
3. Explain the methods used for identifying textile fibres.
4. Discuss the significance of cotton fibre length and strength in textile production.
5. Discuss the testing methods used to evaluate yarn strength.
6. Explain the weight method and air flow method for testing yarns.
7. Explain the methods used to measure the weight and thickness of fabrics.
8. Discuss the significance of breaking strength and abrasion resistance in fabric analysis.
9. Explain the various methods used to assess the colour fastness of textiles, including crocking, perspiration, and sunlight exposure.

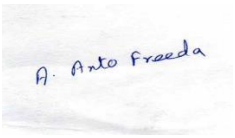
10. Part – C

Answer any Five Questions (5 X 8 = 40 marks)

1. Discuss the introduction to textile and quality control, focusing on its definition, general aspects, and significance in the textile industry.
2. Explain the benefits of testing in textiles and the standards followed by the international community.
3. Discuss the various methods used to identify textile fibres, including burning, solvent, and microscopic methods. Explain how these methods are applied to common fibres such as cotton, wool, polyester, and nylon.
4. Explain fibre strength, length, and fineness. Discuss how these factors affect the quality and performance of textiles.
5. Discuss the importance of yarn analysis in textile quality control. Include an explanation of yarn numbering, yarn strength, twist testing, and other methods used in yarn testing.
6. Elaborate on the methods used to test yarn strength and elongation, and explain how these properties influence the performance of yarns.
7. Discuss the various parameters for fabric analysis, including length, width, bow, skewness, weight, thickness, breaking strength, and abrasion resistance.
8. Explain the methods used to test fabric stiffness, drapability, and crease recovery, and their significance in determining fabric quality.
9. Discuss the importance of standards and specifications in the textile industry, focusing on

quality control and the role of colour fastness tests such as crocking, perspiration, sunlight, and laundering.

10. Explain the various tests used to determine the quality of textiles, including colour fastness, and discuss how they help maintain consistent product standards.



Course Instructor **Head of the Department**

Mrs.A.Anto Freeda **Mrs.T.Menaka**

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

Department : Costume Design and Fashion
Class : II B.Sc Costume Design and Fashion
Title of the Course : Core Lab Course Iv: Textile Testing and Quality Control Laboratory
Semester : IV
Course Code : DU234CP1

Course Code	L	T	P	S	Credits	Inst. Hours	Total Hours	Marks		
								CIA	External	Total
DU234CP1	5	-	-	-	3	3	45	25	75	100

Objectives

1. To Identify the type of fibres.
2. To Test the yarn count and fabric count.

Course Outcomes

CO	Upon completion of this course, the students will be able to	PSO addressed	Cognitive level
1	Earn and develop the techniques used for clothing care.	**PSO - 1**	**K1**
2	Demonstrate the yarn testing machines.	**PSO – 2**	**K2**
3	Apply the techniques used for clothing care.	**PSO – 3**	**K3**
4	Analyze the calculation of fabric testing	**PSO - 4**	**K4**
5	Evaluate and create the fabric testing methods.	**PSO - 5**	**K5 &K6**

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

Teaching plan

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

Unit	module	Topic	Teaching Hours	Cognitive level	Pedagogy	Assessment/ Evaluation
I	**Fiber**					
	1	Fibre Testing	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	2	Longitudinal view test using Microscope	3	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	3	Fibre Length using Baer Sorter .	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	4	Burning Test, Chemical Test	3	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
II	**Yarn Testing**					
	1	Yarn Count using Wrap Reel and Electronic Balance	4	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	2	Yarn Count Beesley Balance and QuadrantBalance	5	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
III	**Yarn Testing**					

	1	Yarn Twist using Twist tester	5	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	2	Yarn Strength using Lea Strength Tester	4	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
IV	**Fabric Testing**					
	1	Fabric length and Width	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	2	Fabric thickness	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	3	Fabric Weight	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	4	Bursting Strength	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	5	Crease Recovery	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
V	**Fabric Testing**					

	1	Stiffness	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	2	Drape	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	3	Fabric warp and weft Crimp	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	4	Rubbing fastness	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	5	Washing fastness	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	6	Perspiration Fastness	2	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically
	7	Light Fastness	1	K3-Apply	Introductory session, Experimental Learning	Evaluation through Practically

Employability

1. Fashion Designer
2. Industrial Engineer
3. Fashion Merchandiser
4. Fashion Journalist
5. Quality In charge
6. Quality Supervisor

7. Fabric Coordinator

Entrepreneurship

1. Q-SUN testers
2. Quality manager

Activities (Em/ En/SD)

1. Different types of color fastness test
2. Burning test for different fibres

Sample Questions

1. (a) Prepare the given sample using Longitudinal view test using Microscope.
   (b) Prepare the given sample using Stiffness tester.

2. (a) Prepare the given sample using Yarn Count Beesley Balance and Quadrant Balance.
   (b) Prepare the given sample using drape meter.

3. (a) Prepare the given sample using fibre burning test.
   (b) Prepare the given sample using Fabric warp and weft Crimp tester.

4. (a) Prepare the given sample using fibre chemical test.
   (b) Prepare the given sample using Fabric length and width.

5. (a) Prepare the given sample using Yarn count using warp reel and Electronic Balance.
   (b) Prepare the given sample using Fabric thickness.

6. (a) Prepare the given sample using Yarn twist tester.
   (b) Prepare the given sample using Bursting Strength.

7. (a) Prepare the given sample using Fibre testing.
   (b) Prepare the given sample using Crease Recovery.

8. (a) Prepare the given sample using Longitudinal view test using Microscope.
   (b) Prepare the given sample using Washing fastness.

9. (a) Prepare the given sample using fibre length using Bear Sorter.

   (b) Prepare the given sample using Fabric Weight.

10. (a) Prepare the given sample using Yarn strength using Lea Strength tester.

    (b) Prepare the given sample using Light Fastness.

A. Anto Freeda

HEAD OF THE DEPARTMENT
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Course Instructor

Mrs. A. Anto Freeda

Head of the Department

Mrs. A. Anto Freeda