DIPLOMA IN APPAREL DESIGN AND FABRICATION TECHNOLOGY FIRST SEMESTER



Course Title: FUNDAMENTALS OF SEWING TECHNIQUES									
Credits (L:T:P) : 4:0:0	Total Contact Hours: 52	Course Code: 15FT12T							
Type of Course: Lectures, Self Study & Quiz	Credit :04 SEE- 100 Marks CIE- 25 Marks	Core/ Elective: Core							

Prerequisites: Knowledge of basic Apparel Construction

COURSE OBJECTIVES

- 1. To know the parts and functions of the sewing machine.
- 2. To develop the knowledge of sewing techniques
- 3. To Evaluate use of different sewing techniques.
- 4. To evaluate and analyze the types of seams and stitches in dress making.
- 5. To gain knowledge of textures for design development.
- 6. To know various types of fabrics.

At the end of the course the students should be able to:

	Course Outcomes	CL	Linked PO	Teaching hrs
CO1	Student acquires ability to use different sewing machines	U/A	1,2,5,9	12
CO2	Student gains ability to analyze and apply different sewing techniques	U/R/A	1,2,4,8	9
CO3	Acquire the knowledge of different types of fabrics	U/R/A	1,4,5,9,10	10
CO4	Ability to know seams and stitches in dress making	U/R/A	1,4,5,9,10	8
CO5	To analyze the texture for particular design	U/R/A	3,6,7,10	8
CO6	Acquire the knowledge of various trimmings.	U/R/A	1,8,10	5

COURSE-PO ATTAINMENT MATRIX

Course		Programme Outcomes										
	1	2	3	4	5	6	7	8	9	10		
PATTERN ILLUSTRATION-1	3	2	1	3	3	2	1	2	3	3		

Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO. If \geq 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3 If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2 If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1 If < 5% of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.

Unit No	Unit Name	Hour	Questions to be set for (5marks) PART - A		b (1 P	estior e set f 0mar ART	for ks) - B	Marks weightage (%)	
			R	U	A	R	U	A	
1	SEWING MACHINE	12	1	-	1	-	1	1	23.07
2	TECHNICAL TERMS, SEAMS AND STITCHES	9	-	-	1	-	1	1	17.30
3	INTRODUCTION TO FULLNESS	10	-	1	-	-	-	1	19.23
4	FABRIC TEXTURING	8	-	1	1	1	-	1	15.38
5	TRIMS	8	1	-	-	-	1	1	15.38
6	STUDY OF FABRICS	5	1	1	-	-	-	1	9.61
			09(45marks)		10(100 marks)			100	
	TOTAL	52							

COURSE CONTENT AND BLUE PRINT OF MARKS FOR SEE

Legend: R; Remember, U: Understand A: Application

CONTENTS

Unit	Major Topics	Hours Allotted
1	SEWING MACHINE	12
2	TECHNICAL TERMS, SEAMS AND STITCHES	9
3	INTRODUCTION TO FULLNESS	10
4	FABRIC TEXTURING	8
5	TRIMS	8
6	STUDY OF FABRICS	5
	TOTAL	52

UNIT – I

SEWING MACHINE

- 1.1 Introduction to Sewing Machine.
- 1.2 History of sewing Machine.
- 1.3 Types of sewing machine Hand operated, leg operated and power operated.

12hr

- 1.4 Study of external and internal working parts of Domestic Sewing Machine with neat sketch
- 1.5 Study of external and internal non working parts with neat sketch
- 1.6. Function and uses of the Working and None working parts.
- 1.7 Attachments---Zipper foot, Seam Guide, Hemmer foot, Gathering foot, Button hole Foot.
- 1.8 Defects, causes and remedies of the sewing machine.
- 1.9 Care and Maintenance of the sewing machine.
- 1.10 Selection of sewing machine.

UNIT – II TECHNICAL TERMS, SEAMS AND STITCHES

- 2.1 Introduction to Technical Terms ---Seam allowance, Bias, True Bias, edge finish, Flap, facing, Frog, Grain, Selvedge, Notch mark, Notions, Placket
- 2.2 Introduction to seams.
- 2.3 Types of seams with neat sketch.- Plain, French, flat, show seam and edge Neatening seams.
- 2.4 Introduction and Classification of hand stitches temporary, permanent and decorative stitches.
- 2.5 Temporary-- Basting / tacking, , tailors tack with neat sketch
- 2.6 Permanent--Running, Hemming, button hole, over casting, back stitch. Cross
- stitch, Prick stitch with neat sketch.

2.7 Decorative stitch - Blanket stitch, chain stitch and Herring bone stitch, Feather stitch with Neat sketch

UNIT III INTRODUCTION TO FULLNESS

- 3.1 Introduction to fullness and classification
- 3.2 Pleats side, box, inverted, knife, Accordion pleats
- 3.3 Darts Arrow head dart / Single pointed, diamond dart / fish dart / double pointed
- 3.4 Tucks pin tucks, space tuck, carded tuck, blind tuck, released tucks, cross Tuck, Shell tuck.

UNIT IV FABRIC TEXTURING

- 4.1 Introduction to Smocking.
- 4.2 Method of Smocking and stitches used in Smocking.
- 4.3 Knowledge of Honey comb.
- 4.4 Study of five different types of Honey comb stitches. With neat sketch
- 4.5 Frills--Single edge Frill, Double edge frill with neat sketch
- 4.6 Ruffle-Plain, Double, Circular and Flounces with neat sketch
- 4.7 Gathering- hand, machine, by gathering foot
- 4.8 Shirring-hand, machine, elasticized shirring.

8hrs

9 hrs

10 hrs

UNIT –V TRIMS

- 5.1 Study and Importance of Trimmings
- 5.2 Classification of Trimmings-Decorative and Functional Trimmings with neat sketch
- 5.2 Study of different types of Threads, Fasteners, Interlinings, Laces their importance and uses

UNIT-VI STUDY OF FABRICS

- 6.1 Cotton, Silk, Wool, Rayon Nylon, polyester, Felt Long cloth, Poplin, Lawn, chintz, Organdie, Mull, denim, Raw silk, Pure silk Jeans, khaki, canvas, casement, Corduroy,
- 6.2 Width of Material Single Width, Medium Width, Double Width
- 6.3 Establish Relationship between Fabric weight, thread type and needle type.

SEMINAR

Each student to select one of the following topic for the seminar.

- 1. Sewing machines
- 2. Technical terms, seams and stitches:
- 3. Trimmings and fastenings:
- 4. Different types of fabrics

Indicative Reference:

Art of sewing –Anna Jacob Thomas Complete guide to sewing –Reader digest Bend the rules sewing –Amy Karol –potcrus

LIST OF LEARNING WEB SITES

https://www.youtube.com/watch?v=AAUQNMldp_Y https://www.youtube.com/watch?v=BHE82R4i2Vo https://www.youtube.com/watch?v=kH_b3Heo48I https://www.youtube.com/watch?v=YYWlevX7Kw0

8 hrs

5 hrs

COURSE ASSESSMENT AND EVALUATION

	What		To Who m	Frequency	Max. Marks	Evidence Collected	Course Outcomes
ASSESSMENT	CIE – Continuous Internal Evaluation	I A Tests		Three IA (Average marks of three IA tests are considered)	20	Blue Books	<u>1 to 5</u>
		Class room Assign ments	Stude nts	Class room Assignment s	05	Log of Activity	<u>1&2</u>
DIRECT	SEE – Semeste End Examination	End Exam		TOTAL End Of the Course	25 100	Answer Scripts	ALL CO's
<u>SCT</u>	Student Feedback on course End of Course Survey			Middle Of The Course	Feed Bac	k Forms	
INDIRECT ASSESSME			Stude nts	End Of The Course	Questionnaire		ALL CO's

Note: I.A. test shall be conducted for 20 marks. Average marks of three tests shall be rounded off to the next higher digit.

Note to I A Verifier : The following documents to be verified by CIE verifier at the end of semester

1 Blue books

2 Student suggested activities report for 05 marks

3 student feedback on course regarding Effectiveness of Delivery of instructions and Assessment Methods.

MODEL OF RUBRICS FOR ASSESSING STUDENT ACTIVITY

Dimension			Scale			St	uder	nts S	core	;
	Unsatisfactory	Developing	Satisfactory	Good	Exemplary	1	2	3	4	5
	1	2	3	4	5					
1.Research & gather information	Does not collect any information relating to the topic	Collects very limited information; some relate to the topic	Collects some basic information; most refer to the topic	Collects a good information; all refer to the topic	Collects a excellent deal of information; all refer to the topic	Ex: 2				
2.Fulfil team's roles & duties	Does not collect any information relating to the topic	Collects very limited information; some relate to the topic	Collects some basic information; most refer to the topic	Collects a good information all refer to the topic	Collects a excellent deal of information; all refer to the topic	3				
3.Shares	Does not	Collects	Collects	Collects a	Collects a	4				

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work equally	collect any information relating to the topic	very limited information; some relate to the topic	some basic information; most refer to the topic	good information all refer to the topic	excellent deal of information; all refer to the topic			
4.Listen to other Team mates	Does not collect any information relating to the topic	Collects very limited information; some relate to the topic	Collects some basic information; most refer to the topic	Collects a good information; all refer to the topic	Collects a excellent deal of information; all refer to the topic	5		
Gra	nd Average/Tota	al=(2+3+4+5)=	14/4=3.5=4			4		

Note: The above rubric is only an example. The concerned Course Coordinator may devise appropriate rubrics for the assigned activity.

MODEL QUESTION PAPER (CIE)

Test/Dat	e and Time	Semester/year	Course/Course Code	Ma	ıx Mar	ks		
	6 th weak of	I SEM	A FUNDAMENTALS OF SEWING TECHNIQUES					
sem 1	0-11 a m	Year: 2015-16	Course code:15FT12T	IDAMENTALS OF SEWING TECHNIQUES 2 Course code:15FT12T Units:1,2 Co: Il questions CL Q A 1 units: 1,2 Co: Units:1,2 Co:				
Name of Co	Units:1,2 (Co: 1,2						
		Note: A	nswer all questions					
Question no		Question						
1	Enlist sewing	Enlist sewing machine parts						
2	With the neat	With the neat sketch explain balance wheel						
3	Explain any	y two defects and remedi	es of a sewing machine	А	2	1,2		
			Or					
	Describe an	ny two technical terms w	ith neat sketch					
4	Explain Fre	Explain French seam and its uses						
			OR					
	Explain hemr	ning stitch with neat sketch						

DIPLOMA IN APPAREL DESIGN AND FABRICATION TECHNOLOGY FIRST SEMESTER FUNDAMENTALS OF SEWING TECHNIQUES MODEL QUESTION PAPER PART-A ANSWER ANY SIX QUESTIONS.EACH QUESTION CARRIES FIVE MARKS

- Q.1. Describe history of sewing machine
- Q.2. Explain shuttle and its function
- Q 3. Explain any two technical terms with neat sketch
- Q.4 . Write the uses of French seam and Flat seam
- Q. 5. Explain button hole stitch with neat sketch
- Q. 6. Explain darts with neat sketch
- Q. 7. writes a note on fastening?
- Q. 8. writes the importance of smocking in garments?
- Q. 9. Describe width of materials?

PART B

ANSWER ANY SEVEN QUESTIONS.EACH QUESTION CARRIES TEN MARKS

- Q.10. Classify sewing machine and explain?
- Q.11. Explain any three internal sewing machine parts?
- Q.12. Classify hand stitches explain any three hand stitches with neat sketch?
- Q.13. Write the uses of following fabrics Cotton, casement, nylon, silk, polyester
- Q.14. Describe the following & write their uses? Gathering & shearing
- Q.15. Explain any four pleats with neat sketch?
- Q.16. Explain functional &Decorative trimmings?
- Q.17. Describe the importance of frills & flounces with neat sketch
- Q.18. Explain the following with needle movement?
 - 1.Feather stitch 2.faggotting
- Q.19. How do you rectify the following sewing machine defects?

MODEL QUESTION BANK

COURSE: FUNDAMENTALS OF SEWING TECHNIQUES O5 MARKS EACH

REMEMBERENCE

Write the History of Sewing machine
Write the importance and uses of sewing machine
Explain Hand operated sewing machine
Explain Power operated sewing machine
Explain Leg operates sewing machine
Enlist any five internal working parts and explain any one
Enlist any five internal non working parts and explain any one
Enlist any five external working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
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Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one
Enlist any five external non working parts and explain any one

UNDERSTAND

Explain the following technical terms-Notch ,Grain, flap Explain French seam and Flat seam Describe temporary Hand stitches Describe permanent Hand stitches any two with neat sketch Describe decorative hand stitches any two with neat sketch Explain any two pleats with neat sketch Explain any two darts with neat sketch Explain any two tucks with neat sketch Explain method of Smocking Explain method of honey comb Describe the stitches used in smocking Explain frills with neat sketch Explain ruffles with neat sketch

APPLICATION

Explain flounces with neat sketch and describe Describe the method of shirring Explain gathering and describe the methods of gathering Classify trimming materials and explain Explain ant two fasteners Explain types of laces Describe single width of material Describe medium width of material Describe double width of material Write the uses of cotton Write the uses of solk Write the uses of silk Write the uses of Rayon Write the relationship between needle and thread

10 MARKS EACH

REMEMBER

- 1. Classify the sewing machines and explain
- 2. Explain needle bar assembly with neat sketch
- 3. Explain presser bar assembly with neat sketch

- 4. Explain shuttle with neat sketch and write the importance
- 5. Write uses of following -feed dog, presser foot, stitch regulator
- 6. Explain the following attachments -zipper foot, Hemmer foot, buttonhole foot
- 7. Write the causes and remedies for the following defects-Loop stitches, skips
- 8. Write the causes and remedies for the following defects-thread breaking, needle breaking
- 9. How do you select a sewing machine explain in detail
- 10. Explain sewing machine write the importance and uses

UNDERSTANDING

- 11. Explain any two seams with neat sketch
- 12. Explain any two stitches with neat sketch
- 13. Explain any two decorative stitches with neat sketch
- 14. Classify pleats and explain with neat sketch
- 15. Classify Tucks and explain with neat sketch
- 16. Classify darts and explain with neat sketch
- 17. Explain different types of shirring methods with neat sketch
- 18. Explain different types of gathering methods with neat sketch
- 19. Describe frills and flounces with neat sketch
- 20. Describe ruffles with neat sketch and write the uses

APPLICATION

- 21. Explain any five functional trimmings
- 22. Explain any five decorative trimmings
- 23. Enlist trimmings and explain
- 24. Explain trimmings with neat sketch
- 25. Write note on the following fabrics-lawn, cambric, casement, organdie, canvas
- 26. Write the uses of following fabrics-khaki, corduroy, jeans, chintz, mull
- 27. Write the chart of showing relationship between needle, thread and material
- 28. How do you select machine needles and thread?
- 29. How do you select fabrics and thread
- 30. Explain different types of fabrics