


**DIPLOMA IN APPAREL DESIGN AND FABRICATION TECHNOLOGY
THIRD SEMESTER**

	Course Title: BASIC EMBELLISHMENT AND KNITTING		
	Credits (L:T:P) : 4:0:0	Total Contact Hours: 52	Course Code: 15FT32T
	Type of Course: Lectures, Self Study & Quiz	Credit :04 SEE- 100 Marks CIE- 25 Marks	Core/ Elective: Core

Prerequisites: Knowledge of Basic Needle work.

COURSE OBJECTIVES

1. To know the various tools used in hand, machine and knitting.
2. Grouping types of hand and machine embroidery stitches.
3. To create suitable design, enlarging and reducing.
4. To know the design transfer techniques.
5. Understanding the basic knitting stitches and patterns.

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

Course Outcomes		CL	Linked PO	Teaching hrs
CO1	To use various tools in embellishment	U/A	1,2,3,4	4
CO2	To evaluate hand embroidery stitches	U/R/A	1,2,3,4,8,10	12
CO3	Apply suitable design and transfer techniques	U/R/A	1,3,8	4
CO4	To create knitting patterns	U/R/A	1,2,3,4,8,10	14
CO5	Application of machine embroidery stitches	U/R/A	1,2,3,5,6,8,10	14
CO6	Preservation of embroidery articles	U/R/A	5,6,7,9	4

COURSE-PO ATTAINMENT MATRIX

Course	Programme Outcomes									
	1	2	3	4	5	6	7	8	9	10
BASIC EMBELLISHMENT AND KNITTING	3	3	3	3	2	3	1	3	1	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 ≥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.*

COURSE CONTENT AND BLUE PRINT OF MARKS FOR SEE

Unit No	Unit Name	Hour	Questions to be set for (5marks) PART - A			Questions to be set for (10marks) PART - B			Marks weightage (%)
			R	U	A	R	U	A	
1	Hand Embroidery	4hrs	-	1	-	-	-	1	7.69
2	Hand embroidery stitches	12hrs	-	1	1	-	1	1	23.07
3	Machine Embroidery	10hrs	-	1	1	1	-	1	19.23
4	Machine Embroidery Stitches	10hrs	-	1	1	1	-	1	19.23
5	Knitting	8hrs	1	-	-	-	1	1	15.38
6	Basic Stitches	8hrs	1	-	-	-	-	1	15.38
			09(45marks)			10(100 marks)			100
	TOTAL	52							

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

CONTENT

Unit	Major Topics	Hours Allotted
1	Hand Embroidery	4hrs
2	Hand embroidery stitches	12hrs
3	Machine Embroidery	10hrs
4	Machine Embroidery Stitches	10hrs
5	Knitting tools	8hrs
6	Basic knitting Stitches	8hrs
	Total	52hrs

UNIT 1

4hrs

HAND EMBROIDERY

- 1.1 Introduction to hand embroidery-its importance and uses in apparel industry
- 1.2 Tools and Equipments-Frames/Hoops -Round, Peg, Square, stand.
- 1.3 Needles- Chenille, Tapestry, Tambour, Badala, Crewel, Crochet.
- 1.4 Fabrics- Matty, Poplin, Casement, Tapestry, Huckaback
- 1.5 Transferring Techniques- Direct, pouncing, Tacking, Tracing
- 1.6 Caring ,washing and preserving of embroidery articles

UNIT 2

12hrs

HAND EMBROIDERY STITCHES

- 2.1 Classification of Hand Embroidery stitches—Study of design, study of stitches, suitable fabrics, color combination, threads and needle movement.
- 2.2 Line stitch group-Running, Back, stem
- 2.3 Chain stitch group- Simple Chain, Twisted, Lazy-Daisy
- 2.4 Knot stitch group- Bullion, French, Double.
- 2.5 Flat Stitch group-Satin, Long short, Herring bone
- 2.6 Loop stitch group- button hole, spider web, Round
- 2.7 Composite stitch group- Whipped Running, Pekinese

UNIT 3

10hrs

MACHINE EMBROIDERY

- 3.1 Introduction to Machine Embroidery, its importance in apparel industry.
- 3.2 Study of sewing machines used in Machine Embroidery-Functions, importances and uses
Domestic Sewing machine, Power operated Embroidery machines, computer Programmed machines (four head, eight head) Disc operated embroidery machines
- 3.3 Preparation of Sewing machine for machine embroidery
- 3.3 Knowledge of Machine needles, Suitable Fabrics and thread.

UNIT 4

10hrs

MACHINE EMBROIDERY STITCHES

- 4.1 Working method of following machine embroidery stitches, suitable fabric and design
- 4.2 Running Stitch, Round, zig –zag
- 4.3 Cording Stitch, Stem stitch
- 4.4 Satin-Long and short
- 4.5 Blanket stitch

UNIT5

8hrs

KNITTING TOOLS

- 5.1 Introduction to hand knitting, its importance and uses
- 5.2 Tools and equipments-knitting needles no 6no, 9no, 10no12no Cable needle.
- 5.3 Yarns-different types2ply, 4ply, 6ply,baby yarn, crepe yarn.
- 5.4 Abbreviations used in hand knitting
- 5.5 Knowledge of cast on and casting off.

UNIT 6

8hrs

BASIC KNITTING STITCHES

6.1 Working method of Knit and purl stitch.

6.2 Knowledge of Basic patterns with construction-Stocknette, Garter, Rib, Moss, Eyelet

6.3 Knowledge of different methods of increasing and decreasing the stitches.

6.4 Tension and gauge –loose, medium and tight

SEMINAR

Every student to select one of the following topics for the seminar.

1. Hand embroidery stitches
2. Machine embroidery stitches
3. Transferring Techniques
4. Compatibility of fabric and embellishment
5. Handicraft centre

Indicative Reference:

1. Encyclopedia of Embroidery
2. Complete Guide to Embroidery
3. Embroidery Design
4. Creative Embroidery
5. Vandana Embroidery

6. Ethnic Embroidery
7. Needle Craft for the Home
8. Contemporary Encyclopedia Design

Related E - References

<https://www.youtube.com/watch?v=ezdS6DZFpHk>
<https://www.youtube.com/watch?v=CJSWYauXKZg>
<https://www.youtube.com/watch?v=Vo5vaPcwN4w>
<https://www.youtube.com/watch?v=OQLNm7CRvqI>
<https://www.youtube.com/watch?v=6vAmmNbl88>
<https://www.youtube.com/watch?v=7yylhTN6eQk>

COURSE ASSESSMENT AND EVALUATION

	What		To Whom	Frequency	Max. Marks	Evidence Collected	Course Outcomes
<u>DIRECT ASSESSMENT</u>		I A Tests	Students	Three IA (Average marks of three IA tests are considered)	20	Blue Books	<u>1 to 5</u>
		Class room Assignments		Class room Assignments	05	Log of Activity	<u>1&2</u>
				TOTAL	25		
	SEE -SEMESTER END EXAMINATION	End Exam		End Of the Course	100	Answer Scripts	ALL CO's
<u>INDIRECT ASSESSMENT</u>	Student Feedback on course		Students	Middle Of The Course	Feed Back Forms		
	End of Course Survey			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					Students Score				
	Unsatisfactory 1	Developing 2	Satisfactory 3	Good 4	Exemplary 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	Does not collect any	Collects very limited	Collects some basic	Collects a good	Collects a excellent	3				

roles & duties	information relating to the topic	information; some relate to the topic	information; most refer to the topic	information all refer to the topic	deal of information; all refer to the topic					
3.Shares work equally	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	4				
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				
Grand Average/Total=(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/Date and Time	Semester/year	Course/Course Code	Max Marks				
Ex: I test/6 th week of sem 10-11 a m	III SEM	BASIC EMBELLISHMENT AND KNITTING	20				
	Year: 2015-16	Course code:15FT32T					
Name of Course coordinator :			Units:1,2 Co: 1,2				
Note: Answer all questions							
Question no	Question				CL	CO	PO
1	Explain embroidery needles				A	1	1,2
2	Enlist the tools and equipments used in hand embroidery				U	1	1,2
3	Describe any one transferring techniques OR Draw and explain knot stitch group				A	2	1,2
4	Explain any two stitches comes under line stitch group OR Draw and explain flat stitch group				R	2	1,2

DIPLOMA IN APPAREL DESIGN AND FABRICATION TECHNOLOGY

THIRD SEMESTER

SUBJECT TITLE: BASIC EMBELLISHMENT AND KNITTING

**MODEL QUESTION PAPER
PART-A**

ANSWER ANY SIX QUESTIONS. EACH QUESTION CARRIES FIVE MARKS

- 1 Explain embroidery needles
- 2 Describe bullion knot stitch with neat sketch
- 3 Draw a suitable design for running stitch and mention the colour
- 4 Explain computer embroidery machines
- 5 How do you select needle and fabric for machine embroidery?
- 6 Describe the working method of Satin by machine
- 7 Draw a suitable design for blanket stitch and write the working method by machine
- 8 Explain abbreviations
- 9 Describe working method of knit stitch

PART-B

ANSWER ANY SEVEN QUESTIONS. EACH QUESTION CARRIES TEN MARKS

- 1 Explain any five fabrics used in machine embroidery
- 2 Describe loop stitch group with neat sketch
- 3 Differentiate between knot stitch group and flat stitch group
- 4 How do you prepare sewing machine for machine embroidery
- 5 write about selection of machine needles and thread for machine embroidery
- 6 Describe the working method of Running stitch by machine
- 7 Draw a suitable design for long and short stitch and write the working procedure by machine
- 8 Explain different types of yarns used in knitting
- 9 Explain the increasing and decreasing methods with neat sketch
- 10 Describe any three basic knit patterns and write the construction

MODEL QUESTION BANK

COURSE: BASIC EMBLISHMENT AND KNITTING 05 MAKS EACH

REMEMBER

- 1 writes the importance of hand embroidery
- 2 Enlist the tools and equipments used in hand embroidery
- 3 How do you select fabrics for embroidery?
- 4 list out different types of needles used in embroidery
- 5 Describe transferring techniques
- 6 Classify hand embroidery stitches

UNDERSTAND

- 7 Explain any two stitches comes under line stitch group
- 8 draw a suitable design for chain stitch and explain the needle movement
- 9 Describe the working method of Bullion knot stitch
- 10 Draw a suitable design for long and short stitch
- 11 Write the importance of machine embroidery
- 12 Describe Computer programmed embroidery machines
- 13 Explain disc operated sewing machines

APPLICATION

- 14 How do you work cording stitch by machine?
- 15 write the importance and uses of hand knitting
- 16 How do you select knitting yarns?
- 17 write a note on selection of Knitting needle
- 18 Write any five abbreviations used i n hand knitting
- 19 Describe the method of casting on and casting off
- 20 Write the construction of garter stitch

10 MARKS EACH

REMEMBER

- 1 writes the importance of hand and machine embroidery and their uses in apparel industry
- 2 Explain any five tools and equipments used in embroidery with neat sketch
- 3 Describe any three transferring techniques
- 4 What are the points to be considered while selecting fabric, thread, stitches color combination for embroidery
- 5 Draw and explain line stitch group
- 6 Draw and explain knot stitch group

APPLICATION

- 7 Draw and explain flat stitch group
- 8 Draw and explain loop stitch group
- 9 Draw and explain composite stitch group
- 10 Describe any three types of embroidery machines
- 11 Describe the preparation of machine for embroidery
- 12 with neat sketch explain running stitch and blanket by machine
- 13 Differentiate satin stitch and long and short stitch with example

UNDERSTAND

- 14 Distinguish between chain stitch and lazy daisy with example
- 15 Write the selection of knitting needles and yarns
- 16 Write any ten abbreviations used in hand knitting
- 17 explain tension and gauge
- 18 explain increasing and decreasing methods
- 19 Describe the working method of knit and purl stitch
- 20 Draw a suitable design for cushion cover and mention suitable stitches and color combination