

Maharashtra State Board of Technical Education (MSBTE)**I – Scheme****II – Semester Course Curriculum****Course Title: Elements of Embroidery**

(Course Code:)

Diploma programme in which this course is offered	Semester in which offered
Fashion and Clothing Technology	second

1. RATIONALE

Embroidery is most commonly used ornamentation technique used in value addition of garment. India has rich heritage of different embroidery styles belonging to different geographical regions. Development of skills in embroidery work enables the student with more creative art work in design. After completing this course student will be able to develop hand and machine embroidery art work using appropriate needles, threads, and motifs. Students will create ornamented embroidered designs on computerized machines. Students will use his/her embroidery skill in marketing fashion garments.

2. COMPETENCY

The aim of this course is to help the student to attain the following industry identified competency through various teaching learning experiences:

- **Develop different embroidery designs on garments.**

3. COURSE OUTCOMES (COs)

The theory, practical experiences and relevant soft skills associated with this course are to be taught and implemented, so that the student demonstrates the following *industry oriented* COs associated with the above mentioned competency:

- Use embroidery tools and equipment effectively.
- Use different types of basic hand embroidery stitches.
- Prepare samples of traditional embroidery of Eastern and Western India.
- Prepare samples of traditional embroidery of Northern and Southern India.
- Use computerized embroidery machines to produce embroidered designs.
- Identify different ornamentation techniques for garment value addition.

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE	PA	ESE	PA	50
-	-	2	2	-	-	25	25 ~ ¹	

(~¹): For the *practical only* courses, the PA has two components under practical marks i.e. the assessment of practicals (seen in section 6) has a weightage of 60% (i.e.15 marks) and micro-project assessment (seen in section 12) has a weightage of 40% (i.e.10 marks). This is designed to facilitate attainment of COs holistically, as there is no theory ESE.

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P - Practical; C – Credit, ESE - End Semester Examination; PA - Progressive Assessment.

5. COURSE MAP (with sample COs, Learning Outcomes i.e.LOs and topics)

This course map illustrates an overview of the flow and linkages of the topics at various levels of outcomes (details in subsequent sections) to be attained by the student by the end of the course, in all domains of learning in terms of the industry/employer identified competency depicted at the centre of this map.

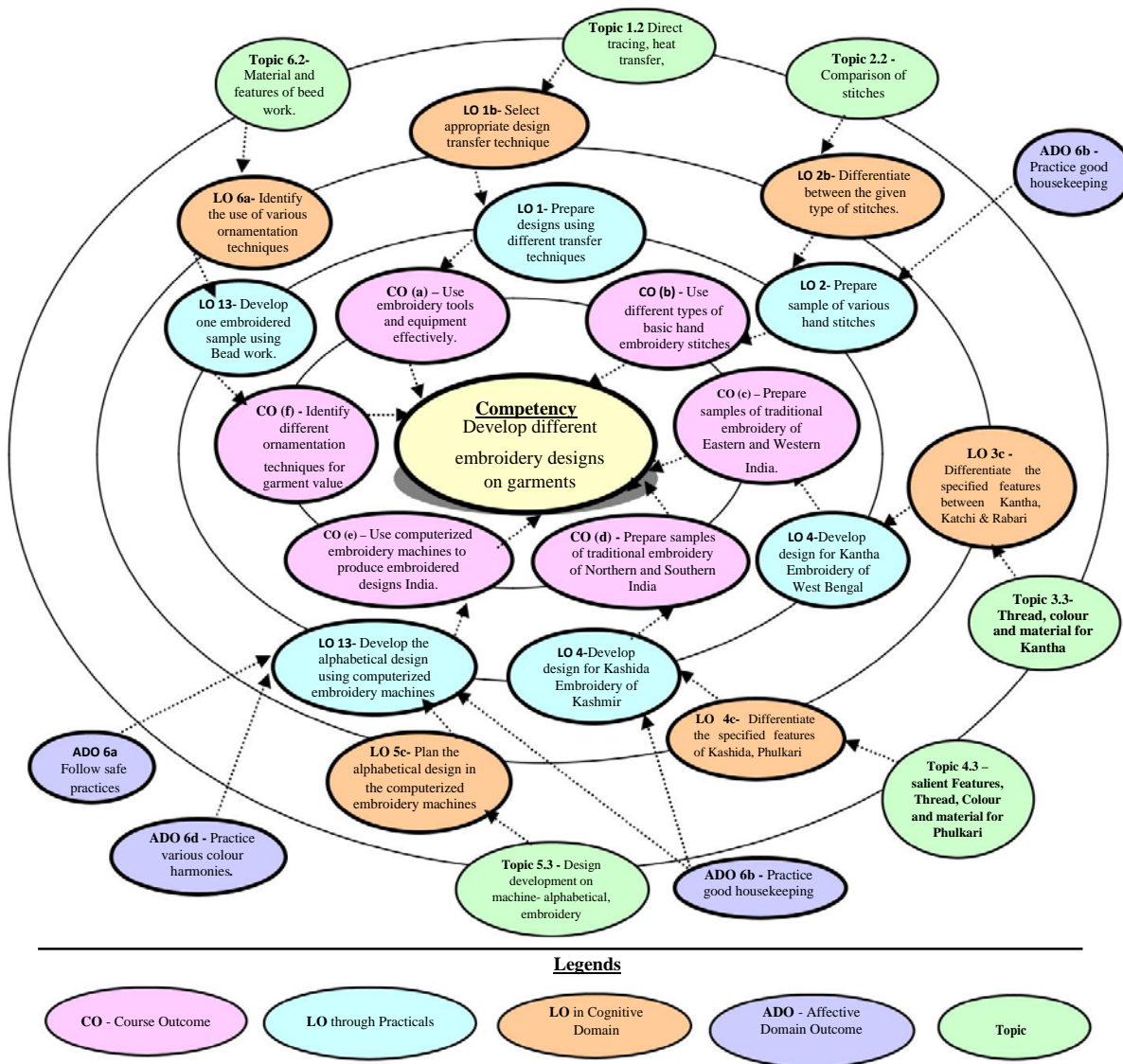


Figure 1 - Course Map

6. SUGGESTED PRACTICALS/ EXERCISES

The practicals/exercises/tutorials in this section are psychomotor domain LOs (i.e.sub-components of the COs), to be developed and assessed in the student to lead to the attainment of the competency.

S. No.	Practical Exercises (Learning Outcomes in Psychomotor Domain)	Unit No.	Approx. Hrs. Required
1	Prepare designs using different transfer techniques- Tracing paper and Carbon paper, Glass table.	I	02

S. No.	Practical Exercises (Learning Outcomes in Psychomotor Domain)	Unit No.	Approx. Hrs. Required
2	Prepare sample of various hand stitches -Running stitch, Back stitch, Steam stitch, Satin stitch	II	02
3	Prepare sample of various hand stitches – Chain stitch, Blanket stitch, Herring bone, Over casting.	II	02
4	Develop design for Kantha Embroidery of West Bengal using traditional motifs, Colors & Materials.	III	02
5	Develop design for Katchi Embroidery of Gujrat using traditional motifs, Colors & Materials.	III	02
6	Develop design for Rabari Embroidery of Rajasthan using traditional motifs, Colors & Materials.	III	02
7	Develop design for Kashida Embroidery of Kashmir using traditional motifs, Colors & Materials.	IV	02
8	Develop design for Phulkari Embroidery of Punjab using traditional motifs, Colors & Materials.	IV	02
9	Develop design for Chikankari Embroidery of Uttar Pradesh using traditional motifs, Colors & Materials.	IV	
10	Develop design for Kasuti Embroidery of Karnataka using traditional motifs, Colors & Materials.	IV	02
11	Use computerized embroidery machines with appropriate needle, thread & fabric.	V	02
12	Create basic design elements with computerized embroidery machine software.	V	02
13	Develop the design in computerized embroidery machines- alphabetical design.	V	02
14	Develop the design in computerized embroidery machines-creative design.	V	02
15	Develop one embroidered sample using Bead work.	VI	02
16	Develop one embroidered sample using Sequins work	VI	02
	Total		32

Note

- i. A suggestive list of practical LOs is given in the above table, more such practical LOs can be added to attain the COs and competency. A judicious mix of minimum 12 or more practical LOs/tutorials need to be performed, out of which, the practicals marked as ‘*’ are compulsory, so that the student reaches the ‘Precision Level’ of Dave’s ‘Psychomotor Domain Taxonomy’ as generally required by the industry.
- ii. Hence, the ‘Process’ and ‘Product’ related skills associated with each LO of the laboratory/workshop/field work are to be assessed according to a suggested sample given below:

S. No.	Performance Indicators	Weightage in %
1.	Selection of motif.	10
2.	Selection of color scheme.	20
3.	Selection of needle, threads & fabric.	20
4.	Safety measures.	10
5.	Presentation of output.	30
6.	Answer to sample questions.	10

Total	100
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7. MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

The major equipment with broad specification mentioned here will usher in uniformity in conduct of experiments, as well as aid to procure equipment by authorities concerned.

S. No.	Equipment Name with Broad Specifications	Exp. S. No.
1	Hand Embroidery needles size 9-11, Machine Embroidery Needle- Size 9-11.	1 to 16
2	Embroidery threads of different material like silk, cotton, Art silk.	1 to 16
3	Cotton, Silk, Khadi, Muslin fabric.	1 to 15
4	Embroidery ring – 9’’	1 to 10
5	Tracing paper -Gate way, Carbon paper, Glass table.	1 to 15
6	Industrial computerized embroidery machine -2 head, 18 needle	11 to 15
7	Software such as Wilcom s-65, latest version	11 to 15

8. UNDERPINNING THEORY COMPONENTS

The following topics/subtopics should be taught and assessed in viva voce order to develop LOs in cognitive domain for achieving the COs to attain the identified competency.

Unit	Major Learning Outcomes (in practical/ cognitive domain)	Topics and Sub-topics
Unit - I Embroidery Tools and Equipment	1a. Select the relevant needle, fabric, Thread and frame according to embroidery type. 1b. Select appropriate design transfer technique.	1.1.Embroidery needles, threads, frames, tracing paper, Glass table, applications. 1.2.Direct tracing, heat transfer, water soluble paper, applications
Unit -II Stitches in Embroidery	2a. Identify different basic hand embroidery stitches. 2b. Differentiate between the given type of stitches. 2c. Select the type of stitch to be adopted for the given Motif.	2.1 Basic embroidery stitches- Running Stitch, Back Stitch, stem stitch, chain stitch, Blanket stitch, Satin Stitch, over-casting, basting, Herring-bone 2.2 Comparison of stitches 2.3 Effectiveness and application of above stitch
Unit - III Traditional Embroidery of Eastern & Western India	3a. Identify the embroideries of Eastern India. 3b. Identify the embroideries of Western India. 3c. Differentiate the salient features between Kantha, Katchi & Rabari Embroidery. 3d. Select the most relevant motif, color scheme & materials for the given region.	3.1. West Bengal- Kantha embroidery- Traditional Motifs using appropriate colors, stitches & material 3.2. Gujarat-Katchi Bharat; Rajasthan- Rabari Embroidery- Traditional Motifs using appropriate colors, stitches & material, 3.3. Salient features of above 3.4. Using appropriate colors, stitches & material.
Unit - IV	4a. Identify the embroideries of	4.1 Kashmir- Kashida embroidery,

Unit	Major Learning Outcomes (in practical/ cognitive domain)	Topics and Sub-topics
Traditional Embroidery of Northern & Southern India	Northern India. 4b. Identify the embroideries of Southern India. 4c. Differentiate the specified features of Kashida, Phulkari, Chikankari, & Kasuti Embroidery. 4d. Select the most relevant motif, color scheme & materials for the given region.	Punjab- Phulkari Embroidery Traditional Motifs using appropriate colors, stitches & material, Uttar Pradesh Chikankari embroidery , 4.2 Karnataka- Kasuti embroidery - Traditional Motifs using appropriate colors, stitches & material 4.3 Comparison of salient features 4.4 Using appropriate colors, stitches & material in Motifs
Unit - V Computerized Machine Embroidery	5a. Identify specified parts of the given computerized embroidery machine 5b. Use machine by correct threading 5c. Plan specified alphabetical design in the computerized embroidery machines 5d. Plan creative design in computerized embroidery machines	5.1. Parts in computerized embroidery machine - Frame, heads, needle 5.2. Threading of machine and operation procedure 5.3. Alphabetical Design development on computerized machine 5.4. creative design development on computerized embroidery machine
Unit - VI Surface Ornamentation Techniques	6a. Identify the use of various ornamentation techniques 6b. Differentiate between ornamentation works.	6.1. Motifs, Fabric, threads, beads, sequins, needles used for various ornamentation techniques. 6.2. Material and salient features of Eyelet work, Lace work, Cut work, Patch work, Applique work, Bead and sequins work

Note: To attain the COs and competency, above listed Learning Outcomes (LOs) need to be undertaken to achieve the 'Application Level' of Bloom's 'Cognitive Domain Taxonomy'

9. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

- Not Applicable -

10. SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, following are the suggested student-related *co-curricular* activities which can be undertaken to accelerate the attainment of the various outcomes in this course:

- Catalogue/ Display piece of state wise traditional embroidery work:** Prepare catalogue/ display piece like table cloth, pillow cover, kurti cloth, handkerchiefs of ten samples of one state. Specify the base cloth, thread material and other accessories.
- Photo album:** one north Indian one south Indian and one northeastern state embroidery work. Actual development of two samples from each state.

11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

- Massive open online courses (*MOOCs*) may be used to teach various topics/sub topics.

- b. '**L**' in item No. 4 does not mean only the traditional lecture method, but different types of teaching methods and media that are to be employed to develop the outcomes.
- c. About **15-20% of the topics/sub-topics** which is relatively simpler or descriptive in nature is to be given to the students for **self-directed learning** and assess the development of the LOs/COs through classroom presentations (see implementation guideline for details).
- d. With respect to item No.10, teachers need to ensure to create opportunities and provisions for **co-curricular activities**.
- e. Guide student(s) in undertaking micro-projects.

12. SUGGESTED MICRO-PROJECTS

Only one micro-project is planned to be undertaken by a student assigned to him/her in the beginning of the semester. S/he ought to submit it by the end of the semester to develop the industry oriented COs. Each micro-project should encompass two or more COs which are in fact, an integration of practicals, cognitive domain and affective domain LOs. The micro-project could be industry application based, internet-based, workshop-based, laboratory-based or field-based. Each student will have to maintain dated work diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. The total duration of the micro-project should not be less than **16 (sixteen) student engagement hours** during the course.

In the first four semesters, the micro-project could be group-based. However, in higher semesters, it should be individually undertaken to build up the skill and confidence in every student to become problem solver so that s/he contributes to the projects of the industry. A suggestive list to be given to groups of 3 to 4 students is given here. Similar micro-projects could be added by the concerned faculty:

- a. **Catalog Collection:** Collect catalogues of different embroidery and stitching machines and prepare a technical comparison chart of at least three different machines.
- b. **Dress Material Development:** Develop dress material for men/ women using any two types of motifs.

13. SUGGESTED LEARNING RESOURCES

S. No.	Title of Book	Author	Publication
1	Embroidered textiles	Paine Shaila	Thames and Hudson Ltd. Delhi. ISBN:9780500513941
2	Inspirational ideas for embroideries of India	Lawther Gail	Search Press Ltd. ISBN: NA
3	Traditional embroideries of India	Naik Shailaja D.	APH publishing corporation New Delhi. ISBN: 9788170247319

14. SOFTWARE/LEARNING WEBSITES

- a. www.fiber2fashion.com
- b. www.google.com
- c. www.youtube.com
- d. www.pinterest.com

