



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma Engineering

Level: Diploma

Branch: Computer Aided Costume Design and Dress Making

Subject Code: DI05051051

Subject Name: Advance Surface Embellishment

w. e. f. Academic Year:	2026-27
Semester:	5 th
Category of the Course:	PEC-04

Prerequisite:	Basic skills in drawing and motif development are important, as well as familiarity with simple surface embellishment techniques like embroidery, printing, dyeing, or appliqué. A creative approach and interest in fabric decoration will support effective learning in this course.
Rationale:	This course develops skills in fabric surface design by integrating traditional craftsmanship with modern fashion technologies. It prepares students for careers in fashion design, boutique industry, textile innovation and entrepreneurship by focusing on creativity, sustainability and industry applications.

Course Outcome:

After Completion of the Course, Student will able to:

Sr. No	Course Outcomes	RBT Level
01	Explain different surface embellishment techniques used in fashion design.	U
02	Apply embroidery and decorative techniques in garment design.	A
03	Apply surface embellishment using beads, Sequins and mixed materials.	A
04	Create textured fabrics using manipulation techniques.	A
05	Develop innovative surface decoration techniques suitable for garments and accessories.	A

**Revised Bloom's Taxonomy (RBT)*

Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA(M)	PA(I)	ESE (V)	
02	00	04	04	70	30	20	30	150



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Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	Introduction to Surface Embellishment 1.1 Introduction of surface embellishment in fashion design. 1.2 Concept and importance of surface embellishment in fashion design. 1.3 Traditional vs. modern embellishment techniques. 1.4 Materials used in surface embellishment. 1.4.1 Threads 1.4.2 Beads and sequins 1.4.3 Stones and crystals 1.4.4 Laces and trims 1.5 Tools and equipment used in embellishment. 1.6 Care and maintenance of embellished garment. 1.7 Role of embellishment in branding and luxury fashion	8	26
2.	Decorative Embroidery Techniques 2.1 Review of basic embroidery stitches. 2.2 Decorative hand embroidery techniques. 2.2.1 Zardozi work 2.2.2 Aari work 2.2.3 Mirror work 2.2.4 Cutwork embroidery 2.3 Fusion embroidery (Combining techniques). 2.4 Motif development & placement principles 2.5 Embroidery for garments such as bridal wear, couture wear etc. and accessories.	8	26
3.	Beadwork and Surface Ornamentation 3.1 Beadwork techniques 3.2 Sequin layering & pattern creation. 3.3 Stone & crystal setting methods. 3.4 3D embellishment techniques. 3.5 Surface design for: Ethnic wear Western wear	4	13
4.	Fabric Manipulation Techniques 4.1 Concept of fabric manipulation 4.2 Pleating techniques. 4.3 Smocking techniques. 4.4 Tucks and gathers.	4	13
5.	Innovative Surface Decoration Techniques 5.1 Appliqué techniques. 5.2 Patchwork and quilting. 5.3 Fabric painting and printing –fusion embellishment 5.4 Mixed media embellishment. (fabric + non-fabric materials) 5.5 Application of surface design for contemporary fashion.	6	22
	Total	30	100



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Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
20	40	40	0	0	0

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

References/Suggested Learning Resources:

(a) Books:

1. Make It Yourself –Complete Set Volumes 1-20, Mary Harding and Margo Coughtrie, Mary Harding and Margo Coughtrie
2. The Art of Manipulating Fabric, Krause Craft, Edition : 2nd, ISBN-13 : 978-0801984969
3. Complete guide to needle work by Reader Digest
4. Sushobhan by Nirmala Mistry

(b) Open-source software and website:

1. www.hobbyidea
2. <https://renneshandmade.com/wp-content/uploads/what-are-decorative-stitch-types-1.webp>
3. <https://i.ytimg.com/vi/MBLN3ycgKs0/hqdefault.jpg?sqp=-oaymwEXCNACELwBSFryq4qpAwkIARUAAIhCGAE=&rs=AOn4CLDsivkMbddMP4b27oG6r4e5ZY8LNA>
4. <https://www.bing.com/videos/riverview/relatedvideo?q=fabric+manipulation+techniques&qpvf=fabric+manipulation+techniques&mid=C960825C87E57960D2CAC960825C87E57960D2CA&churl=https%3a%2f%2fwww.youtube.com%2fchannel%2fUCGNPgd9OqPNeFuUqG9r0Mw&FORM=VRDGAR>

Suggested Course Practical List:

Sr. No.	Practical List	Hours
1.	Develop one innovative garment using surface embellishment technique such as Kurta/dress/fusion wear.	12
2.	Prepare any product using embroidery techniques or fusion embroidery.	12
3.	Prepare product article using beadwork and other mix materials.	12
4.	Prepare product article from Fabric manipulation techniques.	12
5.	Prepare anyone product from Innovative Surface Decoration Techniques mentioned in unit 5.	12
	TOTAL	60

Note: Design, draft and layout wherever necessary in above practicals.



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List of Laboratory/Learning Resources Required:

Design and stitching Laboratory.

Suggested Project List:

1. **Accessory making:** Prepare suitable accessories using different decorative embroidery stitches (Scarf, belt, purse, foot wear, head gear, bag etc.).
2. **Jewellery making:** Using beads, Stones, crystals and Sequins on fabric and prepare small jewellery set. (Necklace, earrings, bangles, bracelet and broch).
3. **Patch making:** Prepare small patches for garments using Fabric manipulation techniques.
4. **Sustainable & zero-waste embellishment**
5. **Trend-based design development**
6. **AI & Digital Design Integration in Fashion-** Use AI tools for motif generation, Digital mood boards
7. **Other surface ornamentation (other than fabric):** Prepare articles using surface ornamentation on pebbles, stones, wood, metal, ceramic, earthen objects with Surface Decoration techniques. Costing and material estimation of the articles prepared.

Suggested Activities for Students: If any

- a) Prepare journals based on practical performed in laboratory.
- b) Explore internet for latest trends in different types of surface embellishments and advances in techniques of applying them, prepare a report/ppt based on it and present it in class. (this activity may be in group of four to five students, and topics may be allotted by faculty)
- c) Sustainable embellishment practices
- d) Digital embroidery basics

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