



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Computer Aided Costume Design and Dress Making

Course / Subject Code: DI01051031

Course / Subject Name: Needle Art

w. e. f. Academic Year:	2024-2025
Semester:	1 st
Category of the Course:	PCC-01

Prerequisite:	NA
Rationale:	This course will provide basic knowledge of needle art such as embroidery and crochet. Embroidery is an art to embellish fabric/garment. Needle art is rooted in its historical significance, personal and cultural expression, skill development, innovation, sustainability and contribution to artistic legacy. These elements collectively contribute to the enduring appeal and relevance of needle art in contemporary society.

Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level
01	Define hand embroidery.	R
02	Select relevant tools and accessories for hand embroidery.	R
03	Classify different types of basic stitches and its techniques.	U
04	Create different type of Indian embroidery samples using basic stitches.	C
05	Create different type of crochet samples.	C

*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 / CA (M)	PA/CA (I)	ESE (V)	
3	0	2	4	70	30	20	30	150



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Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1	Introduction to Hand embroidery 1.1 Define hand embroidery. 1.2 Origin of embroidery. 1.3 Development of embroidery. 1.4 Importance of embroidery.	05	5
2.	Tools and accessories for hand Embroidery. 2.1 Selection, use and maintenance of tools for embroidery. 2.2 Various threads used in embroidery. 2.3 Accessories used in embroidery. 2.4 Various types of Needles and fabrics with its impact on quality parameters. 2.5 Different types of tracing methods used in hand embroidery.	04	10
3.	Basic hand Embroidery Stitches. 3.1 Back stitch 3.2 Stem Stitch 3.3 Blanket stitch 3.4 Chain stitch 3.5 Laid and Couching /cording 3.6 Cross stitch 3.7 Feather stitch 3.8 Satin stitch 3.9 Lazy –daisy stitch 3.10 Bullion and French knot 3.11 Long and short stitch 3.12 Herring bone	10	30
4.	Indian Embroideries. 4.1 Kashmiri Kashida 4.2 Bagh and Phulkari of Punjab 4.3 Chamba Rumals of Himachal 4.4 Kashida, Sujani and appliqué of Bihar 4.5 Bengal Kantha	22	45



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	4.6 Manipuri embroidery 4.7 Kasuti of Karnataka 4.8 Chikankari of Luck now (Uttar Pradesh) 4.9 Kutch and Kathiawar embroidery of Gujarat 4.10 Gold and silver embroidery (Zardozi)		
5.	Tools and materials for Crochet. 5.1 Importance of crochet. 5.2 Selection and use of tools and materials for crochet. 5.3 Different types of basic Crochet stitches like Slip stitch, Chain stitch, Single crochet stitch, half double crochet stitch, Double crochet stitch, treble crochet stitch.	4	10
	Total	45	100

Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
35%	40%	25 %	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. Traditional Embroideries of India by Dr. Shailaja D. Naik, A.P.H. Publishing Corporation 1996, ISBN-9788170247319.
2. Textiles and embroidery of India by Kamladevi Chattopadhyay & Jasleen Dhamecha, Mark Publications, 34-38 Bank Street, Bombay, India.
3. Indian Embroidery. Savitri Pandit, 1 st edition 1976.
4. Bhatia Kashidakari by Dr. Amita Patel & Anita Patel, Avichl Science Foundation V.V.Nagar.
5. Ethnic Embroidery of India by Usha Shrikant, Honesty Publisher & Distributors.
6. The coats book of Embroidery by Mary Gostelow, David & Charles Newton Abbot London Vancouver.
7. Complete guide to needle work by Reader's Digest publication, 1979, ISBN10:0895770598/13:, 9780895770592
8. Crafts of Gujarat Embroidery Ornaments by Jaya Jaitly.



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9. A stitch in Gujarat Embroidery by The Gujarat state Handicraft & Handloom Development Corporation Ltd.

(b) Open-source software and website:

1. www.nptel.iitm.ac.in
2. <https://ndl.iitkgp.ac.in>
3. www.electronicsforu.com
4. www.electrical4u.com
5. www.vlab.co.in

Suggested Course Practical List: If any

Sr. No.	Practical Outcomes (Pros)	Unit No.	Approx. Hrs. required
1	Prepare a sample with all basic stitches on 12" x 12" fabric. (Make a 5inch line for each)		04
2	Prepare a sample of following Indian embroidery		
	Kashmiri Kashida	IV	04
	Bagh and Phulkari of Punjab	IV	04
	Kantha/ Kasuti (Dharwadi)	IV	03
	Manipuri/ Chamba Rumals of Himachal	IV	03
	Kutch & Kathiawar/ Chikankari	IV	03
	Kashida, Sujani and appliqué of Bihar/ Gold and silver embroidery (Zardozi)	IV	03
3	Prepare crochet samples of Circle, Triangle, Square (4" / 4" size each)	V	06
			30 Hrs.

List of Laboratory/Learning Resources Required:

Embroidery Kit (Tools and material).



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Suggested Project List:

- * Collect different types of Indian embroidery articles and name its state.
- * Survey of current embroidery trend in the market and prepare a report.
- * Find out specify unit/display gallery or museum and make a report on it.
- * Prepare charts showing classification of different types of embroidery and its making process.
- * Prepare a chart or scrapbook showing photographs of different stitches of embroidery.
- * Create any one product using basic embroidery stitches or crochet stitches.

Suggested Activities for Students:

- * Internet-based assignments.
- * Teacher guided self-learning activities.
- * To give micro-projects in teams.
- * Visit at exhibition/ Haat/ Calico Museum/ art gallery etc.

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