



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma Engineering

Level: Diploma

Branch: Textile Designing

Subject Code: DI04059051

Subject Name: Textile Ornamentation

w. e. f. Academic Year:	2025-26
Semester:	4 <sup>th</sup>
Category of the Course:	Professional Elective - I

<b>Prerequisite:</b>	Basic information about textile materials and its applications in designs, creative thinking and have a willingness to explore about coloration techniques for textiles including ornamentation and embellishment
<b>Rationale:</b>	Surface ornamentation is a skill. It has been prevalent in India for ages. Practically every Indian state is known for its own style of surface ornamentation. For example, Gujarat is known for mirror work, west Bengal is known for Kantha embroidery, and so on. With each generation contributing to the art of ornamentation and embellishment, it only got better. Surface ornamentation adds visual appeal and enhances the overall look of a garment. The main justification of surface decoration is to add an element of interest for the wearer and for the spectators as well.

## Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level
01	<i>Explain</i> the fundamental concepts, history, and importance of textile ornamentation techniques in traditional and contemporary contexts.	A, N
02	<i>Identify and analyze</i> various ornamentation methods (embroidery, appliqué, patchwork, surface embellishment, quilting, etc.) and their applications in different textile products.	U, A
03	<i>Develop</i> design concepts and motifs suitable for ornamentation by applying principles of design, colour harmony, and fabric suitability.	E, C
04	<i>Evaluate the aesthetic quality, craftsmanship, functionality, and market suitability of ornamented textile products.</i>	C, A

\*Revised Bloom's Taxonomy (RBT)



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## 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)	
3	0	2	4	70	30	20	30	150

## Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	<b>Introduction and History of Textile ornamentation and Embellishment</b> 1.1 History of Textile Ornamentation and Embelishment 1.2 Definition of textile ornamentation and embellishment 1.3 Difference between textile ornamentation and Textile embellishment 1.4 Types of textile Ornamentation 1.5 Types of Textile Embellishment	05	20
2.	<b>Textile ornamentation through Dyeing, Printing, Painting and Batik</b> 2.1 Dyeing of Yarn, fabric and Garment <ul style="list-style-type: none"> <li>• Dyeing by machine and hand dyeing for Yarn, Fabric and Garment.</li> <li>• Dyeing by Natural dye and synthetic dyeing for Yarn ,fabric and garment Process sequence</li> </ul> 2.2 Printing of Natural and synthetic fabric <ul style="list-style-type: none"> <li>• Ornamentation by different Traditional printing method</li> <li>• Ornamentation by Roller, Rotary, Sublimation, Direct and Position Printing method.</li> </ul> 2.3 Painting and Batik Principle, mechanism, print paste formulation <ul style="list-style-type: none"> <li>• Ornamentation by different painting method.</li> <li>• Batik techniques on surface of fabric</li> </ul>	10	20
3.	<b>Textile ornamentation through Embroidery, Quilting, Applique, and Patch work,</b> 3.1 Select Different types of stitches and thread for textile ornamentation. 3.2 Develop relative of quilting work and ornamentation for	10	20



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	<p>different textile products.</p> <p>3.3 Create Different types of Appliqué work and make ornamentation on fabric.</p> <p>3.4 Use different fabric to make Patch work and ornamentation on fabric.</p>		
4.	<p><b>Textile ornamentation through Lace work, Trimming, Bead work, Sequence work and Piping work.</b></p> <p>4.1 Select appropriate types of Laces for Ornamentation on fabric.</p> <p>4.2 Use different types of trimming work for fabric and garment ornamentation.</p> <p>4.3 Create Different design for Bead work and for embellishments.</p> <p>4.4 Prepare Different types of Sequence work and decorate the fabric.</p>	10	20
5.	<p><b>Textile ornamentation through Smoking work, Crochet work, Macramé work and Fabric manipulation work.</b></p> <p>5.1 Use different smoking techniques to decorate textile.</p> <p>5.2 Prepare different design sample for crochet work.</p> <p>5.3 Create different Macramé work for textile ornamentation.</p> <p>5.4 Use Different fabric manipulation for textile decoration and embellishment.</p>	10	20
<b>Total</b>		<b>45</b>	<b>100</b>

**Suggested Specification Table with Marks (Theory):**

Distribution of Theory Marks(in %)					
R Level	U Level	A Level	N Level	E Level	C Level
15	15	25	10	10	25

*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:**

S. No.	Title of Book	Author	Publication with place, year and ISBN
1	Make it yourself- Complete set volumes 1-20	Mary Harding and Margo Coughtrie	Columbia House Woodhead Publishing Ltd. ISBN: 9780857095619,



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S. No.	Title of Book	Author	Publication with place, year and ISBN
			0857095617
2	An introduction to Printing Vol – IV	W. Clarke	Butterworth & Co ISBN 0408001402
3	Textile Printing	L.W.C. Miles	Society of Dyers and Colourists, 1981, ISBN: 9780901956330
4	Introduction to Textile Printing	W. Clarke	Wood-head Publishing Ltd., Cambridge, ISBN: 9781855739949
5	Ornamentation and textile Design	A. F. Barker	Abhishek Publication ISBN : 978-81824779949
6	A field guide to textile Design	Kim kight	C & T Publication ISBN : 9781607053552
7	Quilting and sewing Binding Techniques	Sillas Carrington	Independently Published ISBN : 9798309694723
8	The complete guide to smoking fabrics : Techniques, Patterns and Profitable design	Bryan Parker	
9	Big Book of Indian Beadwork Designs	Kay Doherty Bennett	Dover Publication ISBN : 9780486402833
10	The needle Point Book	Jo ippolito Christensen	Touchstone Books ISBN : 9781476754093
11	Surface ornamentation of Fabric	Meera Goyal	SBPD Publication ISBN : 9362074745 ISBN : 978-9362074744
12	Sustainable Fibres and Textiles	S. S. Mutthu	Elsevier Science ISBN: 9780081020425, 0081020422

**(b) Open source software and website:**

1. <https://nptel.ac.in/courses/>
2. <https://ndl.iitkgp.ac.in>
3. <http://www.textileworld.com/>
4. [www.learningseed.com](http://www.learningseed.com)
5. <http://www.teonline.com/knowledge-centre/>
6. <http://www.sitra.org.in>
7. <http://www.btraindia.com>
8. [www.nitratextile.org/](http://www.nitratextile.org/)
9. <http://www.textileassociationindia.org/>



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10. <http://www.nitma.org/>
11. [www.itamma.org/](http://www.itamma.org/)
12. <http://www.ittaindia.org/>
13. <https://www.fibre2fashion.com/>
14. [www.zimmer-usa.com](http://www.zimmer-usa.com)
15. [http://en.wikipedia.org/wiki/Finishing\\_\(textiles\)](http://en.wikipedia.org/wiki/Finishing_(textiles))
16. <http://www.textileschool.com/articles/418/textile-fabric-finishing>
17. <http://textilefashionstudy.com>
18. Textile Industry - Niir Project Consultancy Services

## Suggested Course Practical List:

S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
1	Give List of different techniques for textile ornamentation.	1	02
2	Create a design on fabric by using any one dyeing techniques	1	02
3	Prepare a design on fabric by using any one printing techniques.	2	02
4	Select a fabric / Garment and ornament its surface by using any one Painting techniques.	2	02
5	Make any design for Batik and ornament the fabric.	2	02
6	Select fabric/Garment and ornament its surface with any one hand embroidery design.	3	02
7	Create Quilting design and do textile ornamentation with any one techniques.	3	02
8	Select fabric and ornament its surface by using applique / patch work by using any one techniques.	3	02
9	Create a design on fabric / Garment by using Lace work / Trimming work by using any one techniques.	4	02
10	Prepare a design on fabric / Garment by using Bead work / Sequence work by using any one techniques.	4	02
11	Prepare a design on fabric / Garment by using Piping work by using any one techniques.	4	02
12	Create design on fabric by using one techniques of smoking work and ornament the textile.	5	02
13	Make design for Crochet work / Macramé work by using any one techniques and ornament the textile.	05	02
14	Create any one design for fabric manipulation techniques for fabric ornamentation.	05	02



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S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
15	Make any one design by own choice/ imagination for future ornamentation	05	02
	<b>Total</b>		<b>30</b>

## List of Laboratory/Learning Resources Required:

S. No.	Equipment Name with Broad Specifications	PrO. No.
1	Wooden block	2 to 15
2	Printing table	2 to 15
3	Screens	2 to 15
4	Drawing sheet	2 to 15
5	Embroidery thread	2 to 15
6	Tracing paper/ Butter paper	2 to 15
7	Fabric colours for printing and paintings	2 to 15
8	Hand painting brushes	2 to 15
9	Sequeces, mirror, beads	2 to 15
10	Natural leaf, bark ,flower	2 to 15

## Suggested Project List:

- **Classify Textile ornamentation:** Collect samples of differently Textile ornamented (yarn/fabric/garment) and prepare analytical report based on the processes involved for manufacturing. (Duration: 8-10 hours)
- **Machine study:** Prepare a report on various machines involved in Textile ornamentation (Duration: 06-08 hours)
- **Method study:** Prepare a report on various method used to produce different textile ornamentation. (Duration: 06-08 hours)



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- **Product study:** Prepare a report on different products in terms of aesthetic, decoration, look, weight, drape , color . **(Duration : 04-06 hours)**
- **Market survey :** Prepare a report on different ornament in terms of Value addition, Market demand , fashion life cycle, price, consumer behavior .

### **Suggested Activities for Students: If any**

- a) Prepare chart of different fabric printing methods & styles.
- b) Explore library/internet for application/technologies being used for different fibers and dyes.
- c) Visit to processing industry and preparing report with specifications.
- d) Prepare line diagram of machineries for different processes.
- e) Undertake micro-projects in teams.
- f) Give seminar on any relevant topic.

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