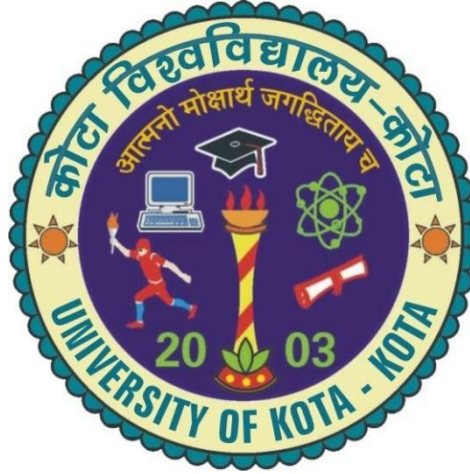


**Syllabus and Course Scheme**  
**Academic year 2024-2025**



**B.A. Part II**  
**T.D.P.**  
**Exam.-2024-25**

**List of Papers for the Degree of B.A in Textile Dyeing  
and Printing (T.D.P.)  
Semester-wise Titles of the Papers in Textile Dyeing  
and Printing (T.D.P.)**

<b>Year</b>	<b>Sem.</b>	<b>Course Code</b>	<b>Paper Title</b>	<b>Theory/ Practical</b>	<b>Credits</b>
SECOND YEAR	III	TDP201 TH	Fabric construction	Th.	4
	III	TDP202 PR	Weaving & Cloth Analysis	Pra	2
	IV	TDP203 TH	Printing	Th.	4
	IV	TDP204 PR	Dyeing & Printing	Pra	2

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**TEXTILE DYEING  
AND PRINTING**

**Programme: B.A. Semester - III**

**Year: II Semester: III  
Paper I**

**Subject: Textile dyeing & Printing**

Each paper contains 100 marks. For regular and non collegiates end semester exam will be of 70 marks. For regular students internal evaluation of marks 30 are divided into 20 marks for assignment, 10 marks for written test and 10 marks for viva/presentation.

For non collegiate students internal evaluation marks 30 are divided into 20 marks for assignment and 10 marks for viva/presentation.

**Course Code:**  
TDP201 TH

**Course Title: Fabric  
construction**

**Course Objective:** The course is designed to impart knowledge among students about various aspects of fabric constructions, How fabrics are made using various shedding devices on various weaving machines i.e. called loom. Students will be able to know how various designs are woven into the fabric. This course will teach students about various woven traditional textiles in India.

**Credits: 6**

**Core: Compulsory**

**Max. Marks: 100**

**Min. Passing Marks: 40**

**Total No. of Lectures-Tutorials-Practical (in hours per week): 6-0-0**

Unit	Topic	No. of Lectures
<b>Unit I</b>	a. Various methods of fabric construction b. Cost estimation of Fabric per yard/meter i. Reed count, Healed count ii. Warp and weft calculations iii. Cloth calculations	<b>20</b>
<b>Unit II</b>	1. Shedding Devices - Defination - Scope of Tappet Shedding  2.. Dobby : - Definition of Dobby - Scope of Dobby - Types of Dobby	<b>20</b>

<b>Unit III</b>	<p>Jacquard</p> <ul style="list-style-type: none"> <li>- Definition of Jacquard</li> <li>- Scope of Jacquard</li> <li>- Types of Jacquard</li> </ul> <p>Introduction to shuttle less loom  Ravier loom  Airjet loom  Waterjet loom</p>	<b>20</b>
<b>Unit IV</b>	<p>Selvages.</p> <ul style="list-style-type: none"> <li>• Plain selvedge.</li> <li>• Tape selvedge.</li> <li>• Split selvedge.</li> <li>• Fused selvedge.</li> <li>• Leno selvedge.</li> <li>• Tucked selvedge.</li> </ul>	<b>15</b>
<b>Unit V</b>	<p>Study of woven textiles according to colour, texture, motifs &amp; techniques</p> <p>a. Jamdani      b. Baluchar      c. Paithani Sarees  d. Maheshwari Saree   e. Chanderi Saree      f. Banarasi Brocade</p>	<b>15</b>

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1. **Weaving : Machine, mechanism & technology** by Dr M.K Talukdar, P.K Shriramulu and D.D Ajgaonkar
2. Weaving Technology-M.M.Kulkarni, Virinda Publication, Jalgon
3. Grociki, Z.J.; Watsons Textile Design and Colour, London, Newness Butter Worth

**Suggested Online Link:**

<https://nptel.ac.in/courses/116102005>  
<https://www.britannica.com/topic/textile/Production-of-fabric>  
<https://nios.ac.in/media/documents/srsec321newE/321-E-Lesson-24.pdf>  
<https://textilelearner.net/what-is-fabric-and-fabric-construction/>

**Course Learning Outcome :-**

Students will be able to understand about science and technology of fabric manufacturing by using weaving techniques which may help students to think to make career in this field as textile is the second largest area in terms of employment generation. Students will be able to understand basics of fabric manufacturing and fabric construction which will help them in daily life at the time of garment purchasing. Knowledge about traditional woven textiles will help them to understand the diversity of India and various cultures and costumes in India

<b>TEXTILE DYEING AND PRINTING</b>		
<b>Programme: B.A. Semester - III</b>		<b>Year: II Semester: III Paper-II</b>
The practical contains 50 marks		<b>Subject: Textile dyeing &amp; Printing</b>
<b>Course Code:</b> TDP202 PR	<b>Course Title: Weaving &amp; Cloth Analysis</b>	
<b>Course Objective:</b> The course is designed to train students in the basics of weaving and fabric analysis. To provide practical knowledge about cost calculation of fabric and production cost calculation of fabric		
<b>Credits: 2</b>		<b>Core: Compulsory</b>
<b>Max. Marks: 50</b>		<b>Min. Passing Marks: 20</b>
<b>Total No. of Lectures-Tutorials-Practical (in hours per week): 0-0-4</b>		
<b>1.</b>	Count Measurement of yarns Cotton Count (Ne), Tex, Denier	
<b>2.</b>	Cloth Calculations Reed count, heald count, Cost estimation of Fabric per yard/meter Production cost	

3.	Weave and design Analysis	
4.	Jacquard Designing, Selection of Motif and transfer of motif on graph	
5.	Minor Project 1	

***Textile Dyeing and Printing***

<b>Programme: B.A. Semester - IV</b>	<b>Year: II</b>	<b>Semester: IV Paper-I</b>
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**Subject: Textile Dyeing and Printing**

Each paper contains 100 marks. For regular and non collegiates theory paper will be of 70 marks. For regular students internal evaluation of marks 30 are divided into 10 marks for assignment, 10 marks for written test and 10 marks for viva/presentation.

For non collegiate students internal evaluation marks 30 are divided into 20 marks for assignment and 10 marks for viva/presentation.

<b>Course Code:</b> TDP203 TH	<b>Course Title:</b> Printing
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**Course Objective:** This course is designed to help students to learn about printing. To study various styles and methods of printing and using them to make various textiles products. To understand about various ingredients in printing paste. To understand organizational structure of textile industry in India .

<b>Credits: 4</b>	<b>Core: Compulsory</b>
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<b>Max. Marks: 70</b>	<b>Min. Passing Marks:28</b>
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**Total No. of Lectures-Tutorials-Practical (in hours per week): 6-0-0**

Unit	Topic	No. of Lectures
<b>Unit I</b>	Introduction to Printing - difference between dyeing and printing. Historical development of printing methods-block, stencil, screen, roller and rotary screensused at cottage and industrial level	<b>20</b>
<b>Unit II</b>	Definition of printing Pretreatments required ingredients for printing (Thickening agent, Mordents, oxidizing and reducing agent etc.) Preparation of printing paste recipes	<b>20</b>
<b>Unit III</b>	Styles of printing – direct style, dyed, resist style, discharge style and raised style Special printing procedures- Polychromatic dyeing, Transfer printing, Carpet printing, Flock printing Finishing and after treatment of printed goods at cottage and industrial level.	<b>20</b>

<b>Unit IV</b>	Organization of the textile industry: Centralized and Decentralized sectors, handlooms, co-operativand export trends, multinational companies	<b>15</b>



<b>Unit V</b>	Study of traditional Textiles <ol style="list-style-type: none"> <li>a. Sanganeri</li> <li>b. Bagru</li> <li>c. Kalamkari</li> <li>d. Ajarakh</li> <li>e. Patola</li> <li>f. Ikat</li> <li>g. Pochampalli</li> <li>h. Bandhani</li> </ol>	<b>15</b>
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**Suggested Reading:**

1. Principles of Textile Printing By Asim Kumar Roy Choudhury

2. **Textile Printing Second Edition** Edited by Leslie W C Miles

*Formerly Lecturer in Textile Chemistry, Department of Textiles, University of Manchester Institute of Science and Technology, Manchester, UK 1994 Society of Dyers and Colourists*

3. Wood-Block Printing by F. Morley Fletcher: December 26, 2006 [eBook #20195]

4. V.A. Shenai (1987), Chemistry of dyes and principles of Dyeing

5. Technology of Textile Processing -Vo.II, Chemistry of Dyes and Principles of Dyeing, V.A. Shenai, 1993, Sevak Publications.

**Suggested Online Link:**

- <https://www.britannica.com/topic/textile/Dyeing-and-printing>
- <https://www.pidiliteindustrialproducts.com/blogs/fabric-printing-methods-which-printing-technology-to-choose/>
- <https://textilelearner.net/textile-printing-methods/>
- [https://www.textileschool.com/8416/textile-printing-process-type-of-printing-and-machinery/#google\\_vignette](https://www.textileschool.com/8416/textile-printing-process-type-of-printing-and-machinery/#google_vignette)
- <https://textileengineering.net/styles-of-printing-in-textile/>

**Course Learning Outcome : -**

Students will be able to understand about various dyes used for cotton fabric and how to prepare printing paste using various ingredients and their functions. Learning about dyeing and printing techniques will motivate students to create new design and products for various applications in the field of textiles. Minor project II will motivate students to show their creativity in the field of textiles

<b>TEXTILE DYEING AND PRINTING</b>			
<b>Programme: B.A. Semester - IV</b>		<b>Year: II</b>	<b>Semester: IV Paper-II</b>
The practical contains 50 marks		<b>Subject: Textile dyeing &amp; Printing</b>	
<b>Course Code:</b> TDP204 PR	<b>Course Title: Dyeing &amp; Printing</b>		



<b>Course Objective:</b> The course is designed to train students dyeing and printing using various methods and styles using different dyes.		
<b>Credits: 2</b>		<b>Core: Compulsory</b>
<b>Max. Marks: 50</b>		<b>Min. Passing Marks: 20</b>
<b>Total No. of Lectures-Tutorials-Practical (in hours per week): 0-0-4</b>		
1.	Mercerization of cotton	
2.	Dyeing of various shades of textiles using direct dyes	
3	Dyeing of Various shades of cotton using reactive dyes	
4	Preparation of printing paste	
5	Printing using block printing, Stencil Printing and screen printing	
6	Minor Project II	

**Online link for reading**

1. <https://www.britannica.com/technology/mercerization>
2. <https://www.dyespigments.net/blog/what-are-direct-dyes-properties-uses/>

