

	<p style="text-align: center;"><b>MAHATMA GANDHI UNIVERSITY</b> Kottayam, Kerala</p> <p style="text-align: center;"><b>Undergraduate Programmes (HONOURS)</b> <b>2024 Admission Onwards</b></p>
---	---

SYLLABUS						
SIGNATURE COURSE						
<b>Name of the College</b>	St. Antony's College, Peruvanthanam, Peerumade, Idukki					
<b>Faculty/ Discipline</b>	Textiles					
<b>Programme</b>	-					
<b>Course Coordinator</b>	Christy Jose					
<b>Contributors</b>	Juliya Sabu					
<b>Course Name</b>	TEXTILE PROCESSES					
<b>Type of Course</b>	VAC					
<b>Specialization title</b>	This Signature Course does not have a specialization.					
<b>Course Code</b>	MG3VACTXLA00					
<b>Course Level</b>	200					
<b>Course Summary</b>	This course offers students a thorough understanding of the methods and procedures used in applying liquid chemicals and dyes to textiles. It explores all phases of wet processing—from pre-treatment to finishing—focusing on both theoretical concepts and hands-on applications.					
<b>Semester</b>	3	<b>Credits</b>			3	<b>Total Hours</b>
<b>Course Details</b>	<b>Learning Approach</b>	Lecture	Tutorial	Practical	Others	
		3	0	0	0	45
<b>Pre-requisites, if any</b>	Nil					

#### Course Outcomes (CO)

Number of COs		5	
CO No.	Expected Course Outcome	Learning Domains *	PO No
1	Distinguish between preparatory and aesthetic textile finishes.	U	PO4, PO6, PO10
2	Describe various types of functional finishes and their applications.	U	PO4, PO6, PO10
3	Outline the dyeing process and explain its different stages.	U	PO4, PO6, PO10
4	Explain the methods of printing and classify their types.	U	PO4, PO6, PO10
5	Develop a detailed project report based on the observations from the industrial visit.	A	PO4, PO6, PO7, PO10

\*Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S), Interest (I) and Appreciation (Ap)

#### CO-PO Articulation Matrix

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	-	-	-	2	-	2	-	-	-	3
CO 2	-	-	-	2	-	2	-	-	-	3
CO 3	-	-	-	2	-	2	-	-	-	3
CO 4	-	-	-	2	-	2	-	-	-	3
CO 5	-	-	-	2	-	2	1	-	-	3

'0' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level).

## Course Content

Content for Classroom transaction (Units)

Module	Units	Course Description	Hrs	CO No.
1	Fabric Finishes Introduction			
	1.1	Initial Preparation Techniques: From Sizing to Bleaching.	3	["1"]
	1.2	Visual Finishes: Enhancing Appearance: Mercerization, Calendaring, Tenting, Flocking, Shearing and Napping.	4	["1"]
	1.3	Performance- enhancing Finishes: Durable Press, Water Repellent, Water Proof Finish, Flame- Retardant Finish, Stain Resistant, and Shrink Resistant Finish.	3	["2"]
2	Dyeing			
	2.1	Types of Dyes: Natural and Synthetic Dyes. Acid, Basic, Direct, Sulphur, Vat, Naphthol, Disperse and Reactive Dyes.	7	["3"]
	2.2	Modes of Dyeing : Fibre Dyeing : Stock Dyeing, Top Dyeing and Dope Dyeing. Yarn Dyeing : Encompasses Skein and Package Dyeing. Fabric Dyeing : Winch, Jet, Beam, Jig, Cross, Union, Batch and Pad Dyeing Techniques. Product Dyeing : Dip Dyeing and Tumble Dyeing.	8	["3"]
	2.3	Textile Printing Methods: Block, Discharge, Duplex, Screen, Roller and Rotary Printing.	5	["4"]
3	Industrial Visit			
	3.1	Visit a textile industry in groups to understand finishing, dyeing, and printing operations. A detailed group report must be submitted based on the observations made during the visit.	15	["5"]

<b>Teaching and Learning Approach</b>	<b>Classroom Procedure (Mode of transaction)</b> 1,2 Lecture 3 Industrial Visit
---------------------------------------	--

<b>Assessment Types</b>	<b>MODE OF ASSESSMENT</b> Mode of Assessment: Theory
	<b>A. Continuous Comprehensive Assessment (CCA)</b> • <b>Theory - 25 Marks</b> Formative Assessment (FA) - Oral Presentation/ Quiz/ Home, Summative Assessment (SA) - Assignment- Industrial Visit Report
	<b>B. End Semester Evaluation (ESE)</b> • <b>Theory - 50 Marks</b> Assessment Methods - Written Examination Duration of Examination - 1.50 Hrs Pattern of examination for Theory - Non-MCQ Different parts of written examination - Part - A , B , C , D , E Answer Type: • PART - A ◦ MCQ - (10 out of 10 ) - $10 \times 1 = 10$ • PART - B ◦ Fill in the blanks - (10 out of 10 ) - $10 \times 1 = 10$ • PART - C ◦ One Sentence - (10 out of 10 ) - $10 \times 1 = 10$ • PART - D ◦ Short answer - (5 out of 6 ) - $5 \times 2 = 10$ • PART - E ◦ Long Answer - (2 out of 4 ) - $2 \times 5 = 10$

## References

- 1. Corbman, B.P. (1983). Textiles: Fiber to Fabrics. Mcgraw-Hill. 2. Kogent Learning Solution Inc. (2010). Comdex Fashion design, Vol 1, Fashion Concepts. 3. Joseph, M.L (1988). Essentials of textiles. Holt, Rinehart,And Winston. 4. Jede,J.(1992). Encyclopedia of Textiles.

## Suggested Readings

- 1. Kadolph,S,J and Marcketti, S.B.(2017).Textiles.Pearson. 2. Hargrave,H.(1997).From Fiber to Fabric. C and T publishing Inc

## Affidavit

- We, St. Antony's College,Peruvanthanam,Peerumade,Idukki and Christy Jose, retain the copyright of this syllabus and expressly prohibit its distribution in complete form to any institution outside our own.
- We, St. Antony's College,Peruvanthanam,Peerumade,Idukki, agree to appoint a new course coordinator for the proposed TEXTILE PROCESSES in the event of the unavailability of the currently nominated coordinator. This appointment will ensure the continued coordination of course delivery, assessments, and all related academic responsibilities necessary for the successful implementation of the signature course, for as long as the college offers this programme.
- We, St. Antony's College,Peruvanthanam,Peerumade,Idukki and Christy Jose, declare that no part of this signature course submitted here for approval has been taken from the course content developed by, or from any of the course titles prepared by, the BoS/expert committee in the same discipline under our University.