

	<p style="text-align: center;">MAHATMA GANDHI UNIVERSITY Kottayam, Kerala</p> <p style="text-align: center;">Undergraduate Programmes (HONOURS) 2024 Admission Onwards</p>
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SYLLABUS						
SIGNATURE COURSE						
Name of the College	Parumala Mar Gregorios College, Thiruvalla					
Faculty/ Discipline	Textiles					
Programme	-					
Course Coordinator	Sandhyakala R					
Contributors	Revathi Raju, Chinnu Babu, Jomol Joy					
Course Name	TEXTILE PROCESSING AND FINISHING					
Type of Course	VAC					
Specialization title	This Signature Course does not have a specialization.					
Course Code	MG3VACTXLA03					
Course Level	200					
Course Summary	The course provides students a comprehensive overview of the techniques and processes involved in treating textiles with liquid chemicals and dyes. Topics covered include various stages of textile processing, from pre-treatment to finishing, emphasizing both theoretical and practical understanding.					
Semester	3	Credits			3	Total Hours
Course Details	Learning Approach	Lecture	Tutorial	Practical	Others	
		3	0	0	0	45
Pre-requisites, if any	NIL					

Course Outcomes (CO)

Number of COs		5	
CO No.	Expected Course Outcome	Learning Domains *	PO No
1	Compare fabric wet processing techniques.	U	PO4, PO6, PO10
2	Describe aesthetic and the functional finishes.	U	PO4, PO6, PO10
3	Summarize textile dyeing and its stages.	U	PO4, PO6, PO10
4	Explain textile printing and its types.	U	PO4, PO6, PO10
5	Write a project report on 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/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 2	-	-	-	2	-	2	-	-	-	3
CO 3	-	-	-	2	-	2	-	-	-	3
CO 4	-	-	-	2	-	2	-	-	-	3
CO 5	-	-	-	3	-	3	2	-	-	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 Finishing Process			
	1.1	Fabric preparation process: - Sizing, Singeing, De-Sizing, Scouring and Bleaching.	3	["1"]
	1.2	Decorative Finishes: Mercerization, Calendaring, Tenterring, Flocking, Shearing and Napping.	3	["1"]
	1.3	Enhanced Finishes: Water Repellent and Water Proof Finish, Flame-Retardant Finish, Durable Press Finish and Shrink Resistant Finish.	4	["2"]
2	Dyeing And Printing			
	2.1	Textile Dyeing: Classification of Dyes: Natural, Synthetic (Acid, Basic, Direct, Sulphur, Vat, Naphthol, Disperse and Reactive)	7	["3"]
	2.2	Fibre Dyeing: Stock Dyeing, Top Dyeing and Dope Dyeing. Yarn Dyeing: Skein Dyeing and Package Dyeing. Fabric Dyeing: Winch Dyeing, Jet Dyeing, Beam Dyeing, Jig Dyeing, Cross Dyeing, Union Dyeing, Batch Dyeing and Pad Dyeing. Product Dyeing: Dip and Tumble	7	["3"]
	2.3	Textile Printing: Block printing, Screen printing, Roller printing, Rotary printing, Discharge printing and Duplex printing.	6	["4"]
3	Team project			
	3.1	Team visit to an industry to analyze wet processing and decorative processing, and then produced a comprehensive team report based on the study.	15	["5"]

Teaching and Learning Approach	Classroom Procedure (Mode of transaction) MODULE 1,2 - Lecture MODULE 3 - Industrial Visit
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Assessment Types	MODE OF ASSESSMENT Mode of Assessment: Theory
	A. Continuous Comprehensive Assessment (CCA) • Theory - 25 Marks Oral Presentation/ Quiz/ Home Assignment, Industrial Visit Report
	B. End Semester Evaluation (ESE) • Theory - 50 Marks 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 word - (10 out of 10) - $10 \times 1 = 10$ ◦ PART - D ◦ Short answer - (5 out of 6) - $5 \times 2 = 10$ ◦ PART - E ◦ Short Essays - (2 out of 4) - $2 \times 5 = 10$

References

- 1. Corbman, B. P. (1983). Textiles: Fiber to Fabrics. Mcgraw-Hill. 2. Kogent Learning Solutions Inc. (2010). Comdex Fashion Design, Vol 1, Fashion Concepts. 3. Joseph, M. L. (1988). Essentials of Textiles. Holt, Rinehart, And Winston. 4. Jerde, 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, Parumala Mar Gregorios College, Thiruvalla and Sandhyakala R, retain the copyright of this syllabus and expressly prohibit its distribution in complete form to any institution outside our own.
- We, Parumala Mar Gregorios College, Thiruvalla, agree to appoint a new course coordinator for the proposed TEXTILE PROCESSING AND FINISHING 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, Parumala Mar Gregorios College, Thiruvalla and Sandhyakala R, 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.