

Sem	Course code	CORE II INDIAN TEXTILE AND APPAREL INDUSTRY	Total Marks:100		Hours Per Week	Credits
			CIA : 50	ESE :50		
I	21PBGCT102				6	4

Course Objectives:

1. To enable the students to learn about export promotion and trade development
2. To impart knowledge on growth and development of Indian textile industry
3. To educate about the technological developments in textile industry

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Understand the various categories of Indian Textile and Apparel Industry	K1 – K6
CO 2	Outline various schemes and organizations related to textile and clothing industry	
CO 3	Report on the technological developments in fibres, yarns and fabrics	
CO 4	Examine latest technological developments in garment industry	
CO 5	Explain novel techniques adopted in textile processing industry	

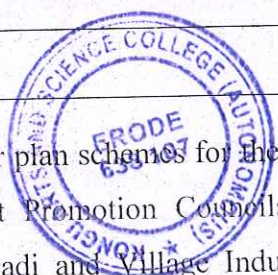
K1 : Remember; K2 :Understand; K3 : Apply; K4 : Analyze; K5 : Evaluate; K6 : Create

Unit –I : Indian textile industry- An overview

An overview of Indian Textile Industry- Structure and Growth- Role of Indian Textile Industry in the Indian economy- Current scenario – SWOT Analysis. Various Categories - Cotton industry, Woolen industry, Silk industry, Rayon and Manmade textile industry, Jute industry. An overview of Indian Apparel industry.

Unit – II : Textile organizations and schemes

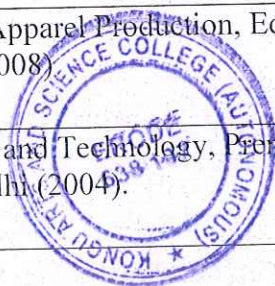
Recent Five year plan schemes for the textile Industry. Organizations related to the textile and clothing industry: Export Promotion Councils, Autonomous Bodies, Statutory Bodies, South Indian Mills Association, Khadi and Village Industries Commission. Textile Research Associations. Concept of GATT and MFA. WTO and its functions.



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Unit – III :	Technological developments in fibres and yarns
Recent developments in fibres- Banana fiber, Bamboo fibre, Corn fiber, Soyabean protein fiber Lyocell, Poly Lactic Acid (PLA) fiber, Alginate, Collagen, Chitosan and Spider silk.	
Technological developments in Yarn Industry – Rotor spun yarns, Ring spun yarns, Air- jet spun yarns, Compact spun yarns, Core spun yarns, Textured yarns and Fancy yarns.	
Unit – IV :	Technological developments in fabrics and garments
Developments in Weaving – Shuttleless looms; Developments in Knitting – Weft Knitting, Warp Knitting, Seamless Knitting Technology – Developments in Garment Industry – Machinery developments. Application of CAD/CAM.	
Unit – V :	Technological developments in processing industry
Technological developments in Processing industry- Plasma treatment, Ultrasonic treatment, Foam application, Enzyme treatments - Latest developments in dyeing- Novel printing techniques- Recent developments in textile and garment Finishes.	
TEXT BOOK	
1	The Textile Industry in India : Changing Trends and Employment Challenges, Bindu Oberoi, Oxford University Press, New Delhi (2017).

REFERENCE BOOKS	
1	Indian Textile Industry – State Policy, Liberalization and Growth, Shuji Uchikawa, Oxford University Press, New Delhi (2017).
2	Sustainable Fibres and Textiles, Edited by Subramanian Senthilkannan Muthu, Woodhead Publishing Ltd. Cambridge (2017)
3	Textile Mechanisms in Spinning and Weaving Machines, Ganapathy Nagarajan, Woodhead Publication Ltd., New Delhi (2014).
4	Advances in Apparel Production, Edited by Catherine Fairhurst, Woodhead Publishing Ltd. Cambridge (2008)
5	Fiber Science and Technology, Premamoy Ghosh, Tata McGraw- Hill Publishing Company Ltd., New Delhi (2004).



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Web Resources

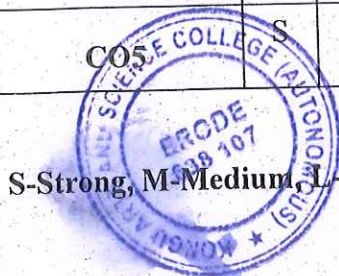
1	https://www.fibre2fashion.com/industry-article/5246/indian-textile-sector-weaves-a-spell-forecasts-for-2020	
2	https://www.fibre2fashion.com/industry-article/3419/recent-developments-in-textile-dyeing-techniques	
Course Designed By	Verified By	Approved By HOD
Dr.S.Manjula	Mr.K.V.Arunkumar	Dr.S.Manjula

QUESTION PAPER PATTERN

SECTION – A	SECTION – B	SECTION – C
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit	5 x 5 = 25 Marks (Either or choice) Two questions from each unit	5 x 8 = 40 Marks Question Number 16 to 19 (Either or choice) Question Number 20 is Compulsory (Case Study)

Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	S	S	S	M	S	S	M	S	M	S
CO2	M	M	S	S	M	M	S	M	M	S	M	M
CO3	S	S	S	M	S	S	S	S	M	S	M	M
CO4	S	M	S	S	S	S	S	S	S	S	S	M
CO5	S	M	M	S	S	S	S	S	M	S	S	M



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