Sem	Course code	CORE I SUSTAINABLE FASHION	Total N	Total Marks:100			Credits
I	21PBGCT101	AND TEXTILES	CIA:5	0	ESE :50	6	4

Course Objectives:

- 1. To impart knowledge on environmental management systems
- 2. To educate the students about the basic concepts of sustainability in textiles and fashion
- 3. To enable the students to learn about the various tools in assessing sustainability

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

CO 1	Identify the need for sustainable fashion and textiles	
CO 2	Develop knowledge on sustainable textiles	
CO 3	Analyze the environmental aspects in processing of textiles	K1 – K
CO 4	Create sustainable fashion products	
CO 5	Interpret the tools in assessing sustainability	

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

Unit –I: Sustainability in textiles and fashion

Sustainability - definition, introduction; necessity for sustainable products, importance of sustainable textiles; environmental and social impacts of the textile, clothing and fashion industry; environmental requirements in textiles and garment industries – general parameters and restrictions, reasons.

Unit – II : Sustainable textiles

exthe processing

Sustainable textiles - different fibres and its impacts on the environment; Natural fibres - types - organic, ecotextiles, recycled and biodegradable; Sustainable natural fibres - organic cotton,organic linen, bamboo, jute, hemp, soysilk, alpaca, tencel, ramie; manmade fibres - fibres from natural polymers, synthetic polymers and inorganic materials.

Unit – III:

Environmental aspects 65

Eco processing

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- eco processing - eco dy ANY ANATURAM HEROGERE 187

chemistry; lifecycle analysis – supply chain – traditional supply chain management and green supply chain management.

Unit - IV:

Eco fashion

Sustainable fashion – definition, importance; eco design – clean by design, sustainability in fashion retailing, fashion logistics, green consumers; eco fashion designers – responsibilities of designers in linking sustainable strategy with the process of design and production.

Unit - V:

1

Tools for sustainability

Tools in assessing sustainability – Life Cycle Assessment (LAC), Carbon Foot Print, Water Foot Print, Resources utilization - water, energy, chemicals; Assessment of social responsibility; New tools, standards and test methods – SteP, The Higg Index, The Sustainable Apparel Index, Dystar, Texan lab, RSC, REACH, CPSIA, GOTS, Chemical tests for heavy metals and ecological toxicity, eco-textile testing and complete biodegradable tests and composting.

TEXT BOOK

Green Apparels – A Sustainable Way of Apparel Manufacturing, Edited by Parthiban M., Sri Krishnan M.R., Kandhavadivu.P., Woodhead Publishing India Pvt. Ltd., New Delhi (2018).

	tainable Fashion and Textiles: Design Journey, Fletcher, K., Earthscan Publications, U.K. 08). tainable Development in Textiles, Miraftab.M., Woodhead Publishing Ltd., Cambridge 07). Web Resources
1	Biodegradable and Sustainable Fibres, Blackburn.S., Wood Head Publishing Ltd., Cambridge (2005).
2	Sustainable Fashion and Textiles: Design Journey, Fletcher, K., Earthscan Publications, U.K. (2008).
3	Sustainable Development in Textiles, Miraftab.M., Woodhead Publishing Ltd., Cambridge
	(2007).
-1	https://nptel.ac.in/courses/109/105/109105136/

	Dr.S.Manjula	Dr.S.Manjula
Dr.N.Radhika	Dr.S.Manjula	
		A- 17 to 2 To 2

	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	PO						PSO					
СО	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	S	S	S	S	S	S	S	S	S	S	M
CO2	S	S	S	S	S	S	S	S	S	S	S	М
CO3	S	S	S	S	S	S	S	S	M	S	S	S
CO4	S	S	S	S	S	S	S	S	Ś	S	S	S
CO5	S	S	S	S	S	S	S	S	.S	S	S	M

S-Strong, M-Medium, L-Low

HEAD OF THE DEPARTMENT
DEPARTMENT OF COSTUME DESIGN AND FASHION
KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
ERODE - 638 107.



DF. M. RAMAN

PRINCIPAL.

KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

NANJANAPURAM, ERODE - 638 107.