

DISCIPLINE SPECIFIC ELECTIVE COURSE**DSE HH 8D4: SUSTAINABILITY IN TEXTILES AND APPAREL****CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE**

Course Title & Code	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisite of the Course (if any)
		Lecture	Tutorial	Practical		
Sustainability in Textile and Apparel DSE HH 8D4	4	2	0	2	Studied Semester VI	Nil

Learning Objectives

- Spreading awareness about issues and challenges of sustainable fashion.
- Make students conscious consumers of textiles and apparel
- Inculcating habits of reducing textile waste generation

Learning Outcomes

- The student will be able to gain knowledge of issues and challenges related to over consumption and non-sustainable fashion.
- The student will be able to choose garment consciously and become informed consumer
- The student will be able to use green laundry practices to help the environment
- The student will be able to increase life cycle of garments and reduce waste generation

SYLLABUS OF DSE HH 8D4

THEORY
(Credits 2; Hours 30)

UNIT I: Fashion & Sustainability**9 Hours**

This unit will deal with aspects of sustainability in relation to fashion and textiles

- Basics of sustainability
- The Fashion Business & sustainability issues
- Ethical & sustainable fashion in the changing global scenario
- Circular fashion
- Start-ups and big brands dealing with sustainability
- Measuring sustainability – How brands do it

UNIT II: Green Consumption**7 Hours**

This unit will deal with factors that should be kept in mind while selecting and purchasing apparel.

- Sustainable Consumption: Slow fashion, Durability, Appropriateness, Multifunctional garments, Trans-seasonal garments, emotionally durable design, Local Consumption
- Local consumption and production: Supporting local artisans
- Standards, labels and organisations dealing with sustainable textiles and apparel

UNIT III: Ethical Care and Maintenance**7 Hours**

This unit will deal with Green practices for laundry and care of apparel

- Laundry detergents and softeners: Effectiveness and environmental concerns
- Efficient laundering practices, Laundering frequency, Machine vs line drying, Special care laundry
- Energy costs vs consumer needs
- Designing sustainable clothing that enables: low-impact care, extended use

UNIT IV: Intelligent Disposal**7 Hours**

This unit will deal with ways to increase the life of garments to reduce waste generation.

- Waste management strategies: up-cycling, Reuse of goods, repair and reconditioning of goods, recycling of goods, zero waste pattern
- Collaborative consumption: Sharing, pass me down, give away
- Vintage Clothing: Traditional Practices in Indian culture leading to sustainable consumption
- Take-back schemes

PRACTICAL
(Credit 2; Hours 60)

1. Analysing Market and Consumer Practices

- Market survey to evaluate presence of Sustainable garments in Indian retail market: Identify any one Multiband apparel outlet and analyse brands selling sustainable clothes, green standards marked on labels and any other information available on labels that talks about sustainability in the production of that garment.
- Analysing personal wardrobe to assess individual buying practices
- Analysing personal laundry practices and evaluating its impact on the environment.
- Analysing personal garment disposal practices and finding ways to reduce the waste generation.

2. Field Visit and Report Writing

- Visit to any unit manufacturing recycled textiles and apparel. Observe the process and material management at the facility and make a detailed report.

3. Case Study

- Case study of an Indian apparel brand that promotes sustainable fashion.
- Case study on any one model of Collaborative consumption.

4. Product development

- Create two articles – apparel/non apparel by using any sustainable material/technique
Design display or apparel show

Essential Readings

- Fletcher, K., & Grose, L. (2012). *Fashion & sustainability: Design for change*. Hachette UK
- Fletcher, K. (2013). *Sustainable fashion and textiles: design journeys*. Routledge.
- Gwilt, A., & Rissanen, T. (2012). *Shaping sustainable fashion: Changing the way we make and use clothes*. Routledge.
- Jacques, P. (2020). *Sustainability: the basics*. Routledge.
- Gardetti, M.A., & Torres, A.L. (Eds.). (2013). *Sustainability in Fashion and Textiles: Values, Design, Production and Consumption (1st ed.)*. Routledge.
- Pratibhan, M. Ed. (2017); *Sustainability in Fashion & Apparels (Challenges & Solutions)*; Woodhead Publishing

Suggested Readings

- Almeida, L. (2015). *Ecolabels and organic certification for textile products. A Roadmap to sustainable textiles and clothing (pp. 175-196)*. Springer, Singapore.
- Muthu, S. S. (Ed.). (2014). *Roadmap to sustainable textiles and clothing: Eco-friendly rawmaterials, technologies, and processing methods*. Springer.
- Minney, S. (2011). *Naked fashion: The new sustainable fashion revolution*. New International
- Mahapatra N. N. (2015); *Textiles & Environment*: Woodhead Publishing
- Kaur, J., & Singh, G. (2021). *Cool Branding for Indian Sustainable Fashion Brands. Social and Sustainability Marketing: A Casebook for Reaching Your Socially Responsible Consumers through Marketing Science*, 115.
- Gwilt, A. (2020). *A practical guide to sustainable fashion*. Bloomsbury Publishing.

Note: Examination scheme and mode shall be as prescribed by the Examination branch, University of Delhi, from time to time