

ECO TEXTILES & ENVIRONMENT

Paper No HSCT (401)

CC-10

Credits – 4+0=4

SEM – 4(M.Sc. C.T.)

Marks : 100

Objectives

- To acquaint the students about the quality of various textile items as per international standard ISO 9000 for exporting to the European and other sophisticated global market.
- To create awareness about the toxic and harmful substance being used in textile processing need to avoid them.
- To acquire knowledge on Eco-auditing, Eco-labelling and Eco-Management.

Unit-1

- German Ban, Indian Banned Dyes, Eco-parameters, Eco-friendly textiles.
- Oeko-Tex standard

Unit-2

- Sensitizing Dyesstuffs- Allergenic Dyes, Carcinogenic Amines, harmful Dyes viz, Disperse, azo, acid, direct (commercial name and C.I. Number), Testing of Banned azo dyes.
- Red listed chemicals as per Eco-specification, Testing of Textiles and auxiliaries, effluent discharge.

Unit-3

- Testing facilities, Government and private, Laboratories, Testing Methods, Sources of Contamination of harmful chemicals in textiles.

Unit-4

- Eco-management for textile industry, and global scenario, eco -marks and environment friendly textiles.

References

- Shenai, V.A. (1997):Ecology and Textiles, Sevak Publications, Mumbai
- Shenai, V.S.(1998): Toxicity of Dyes and intermediates, Sevak publications, Mumbai
- Lever kusen (1998): German Legislation on azo Dyes -Dystar, Textilfarben,Germany.
- Shenai, V.A.(1999):Azo dyes-Facts &figure3s, Sevak publication, Mumbai