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CLEANTEX

MODULE 6
Sustainable Chemical Processes and Textile Care

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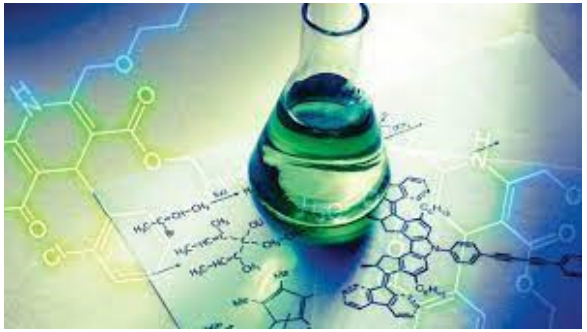
MODULE 6
Sustainable Chemical Processes and Textile Care

Unit 6.1 Sustainable Substances and Wastewater Treatment
Unit 6.2 Sustainable Pretreatment, Dyeing and Printing
Unit 6.3 Sustainable Finishing and Textile Care





Sources:https://www.jonespackaging.com/sustainable-packaging/; https://amrita.edu/news/green-chemistry-and-sustainability/; https://www.innovationnewsnetwork.com/green-chemistry/849

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MODULE 6
Sustainable Chemical Processes and Textile Care

6.1
Sustainable Substances and Wastewater Treatment

6.2
Sustainable Pretreatment, Dyeing and Printing

6.3
Sustainable Finishing and Textile Care

Brief description

The module covers:

- Chemicals policy and legislation;
- Replacement of toxic dyes, pigments and auxiliaries with green alternatives;
- Textile wastewater treatment strategies for recycling purposes;
- Modern green and sustainable pretreatment, dyeing, printing and finishing processes with emphasis on plasma treatment and biotechnology;
- Nanotechnology driven by green chemistry;
- Eco-friendly laundering and eco-labelling

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Learning outcomes

Learners will be able to:

- Understand chemicals policy, legislation and regulations,
- Replace hazardous substances with safer alternatives,
- Apply innovative effluent treatment strategies for recycling textile wastewater,
- Introduce sustainability approach in textile pre-treatment, dyeing, printing, finishing and textile care,
- Implement nanotechnology processes supported by green chemistry,
- Apply knowledge to new sustainable and green chemical textile processes and textile care.

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