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Module 1

Introduction on circular economy

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Unit 1.1 Why circular economy – cause and context of current challenge

Unit 1.2 The Sustainable Development Goals and THE EUROPEAN GREEN DEAL - The key points of the European Commission

Unit 1.3 Circular Economy in textile sector

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Unit 1.3 Circular Economy in textile sector

Brief Description

The Module Covers:

- Past and current world trends – why we face environmental crisis
- Who are the stakeholders - who has the power to make a change
- Education – engineers of the future
- The basis for a sustainable development
- The European green deal
- Relation between competitiveness and sustainability
- Principles, key concepts and terminology of Circular Economy
- Current situation on textile industry across EU and non EU countries: environmental, social and climate impacts

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Brief Description

Module outcomes:

- Understanding the causes for the current environmental crisis
- Definition of the stakeholders in the sustainable equation
- Understanding the new role that engineers will have in the future
- The importance of sustainable development
- The ultimate goals on sustainability
- The European green deal
- Competitiveness and eco- sustainability
- Competitiveness and social sustainability
- Relation between social and eco sustainability
- Understand the limit of linear 'take-make-waste' economy
- Understand the principles and definitions of CE
- Be able to apply CE concepts and tools in the context of textile industry