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Panepistimio Dytikis Attikis (Greece)

Kauno Technologijos Universitetas (Lithuania)

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CircuTex

Circular economy in fibrous composites and technical textiles through the use of virtual laboratories

Project:
KA220-HED - Cooperation partnerships in higher education
2021-1-ES01-KA220-HED-000032075

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CircuTex

The project aims at offering an online course on circular economy for fibrous composites and technical textiles, which will help students, who are enrolled in relevant fields in their Universities to upskill their sustainability competences and raise their awareness on how to reduce the effect that fibrous composites and technical textiles have on the climate change

Target Groups

- Researchers, trainers, students, academics in the textile sector
- Universities
- Vocational Education and Training sector
- Clusters and associations dealing with smart textiles at national, European, and international level

Objectives

Enhance the sustainability competences of HEI students and educators in the sector of fibrous composites and technical textiles

The specific objectives of the project are:

- to create an eLearning course for HEI students on the circular economy for fibrous composites and technical textiles.
- to make use of innovative technologies, like virtual reality, to support the learning process.
- to create a roadmap and recommendations, for the appointment of ECTS points to the course and the adoption of microcredentials.
- to bring together European organisations and build their capacity in organising learning courses, which lead to microcredentials based on learning outcomes.

Results

- **eLearning course on circular economy of fibrous composites and technical textiles.**
- **Virtual laboratory for the implementation of virtual experiments.**
- **Roadmap to microcredentials.**

Outcomes

1. Capacity building:
- of HEI educators and students in applying sustainability processes in the design, production, use and recycling of fibrous composites and technical textiles.
- of HEI educators in applying virtual reality.

2. Awareness-raising:
- about the environmental impact of fibrous composites and technical textiles.
- about the need to apply circular economy in the life cycle of fibrous composites and technical textiles.
- on the use and importance of microcredentials for the recognition of qualifications across Europe, and the use of the new Europass platform.

3. Provision of innovative eLearning courses based on learning outcomes.