



NEWSLETTER No. 6

March 2026,

GENERAL INFORMATION

Project Name: Circular Economy and Reverse Engineering Education for the Green Transition

Project acronym: CircleREdu

Type of the project: KA220-HED - Cooperation partnerships in higher education

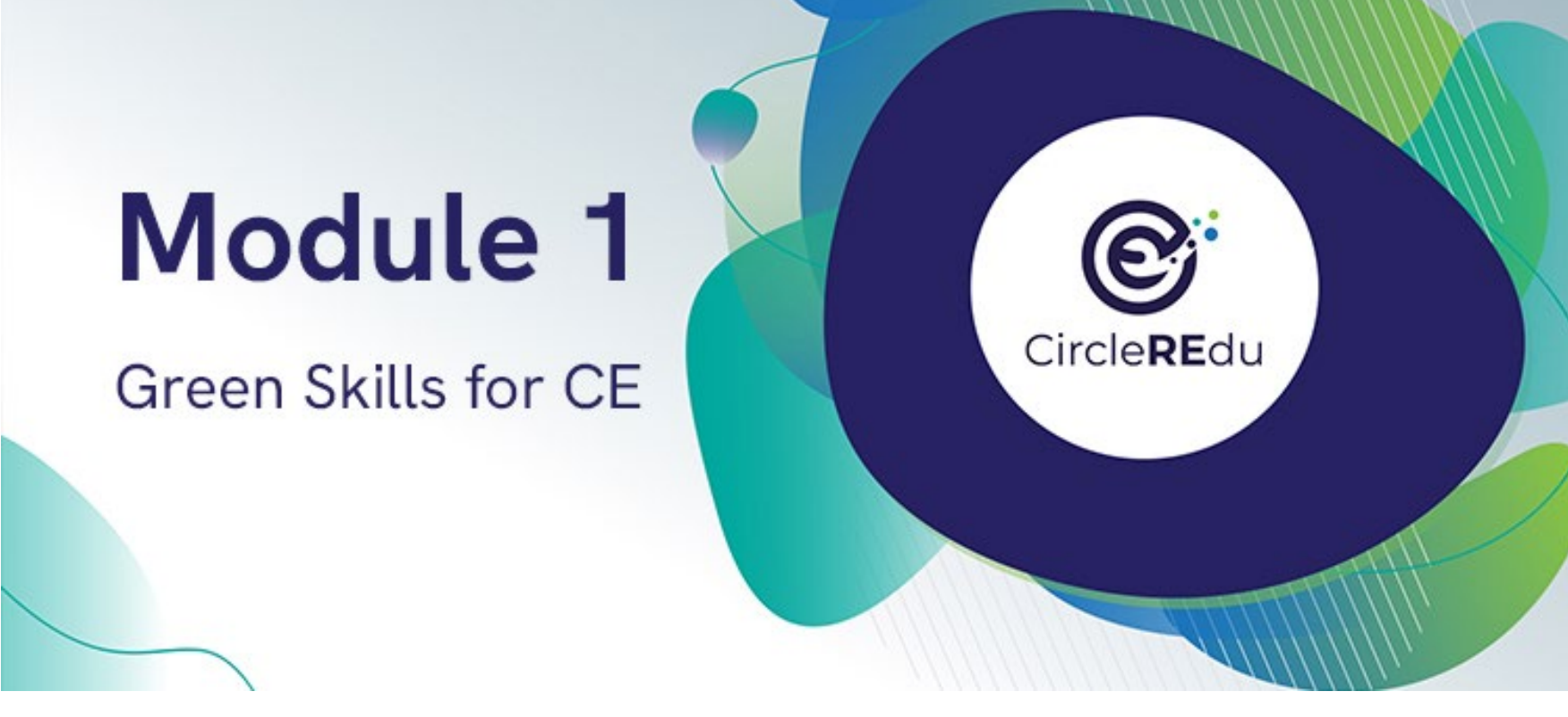
Project number: 2024-1-PL01-KA220-HED-000254978

Number of partners: 4 project partners

Budget: 400 000 EUR

Project duration: 01/12/2024 – 30/11/2027

Within the CircleREdu project, a new educational module entitled Green Skills for Circular Economy will be developed to equip students with the knowledge and practical competences required to support the transition towards a more sustainable and resource-efficient economy. The module will combine theoretical content with independent practical assignments, enabling learners to understand key circular economy concepts and apply them to real-world business and engineering challenges.



Module objective is to acquire:

- knowledge about the circular economy and the possibilities of implementing its principles into industry and services,
- skills in the application of the selected LCA method, the ability to take into account environmental issues in business activities.

The module will be structured into eight thematic topics:

1. The Premises of Circular Economy Concept. Resource Intensity and Polluting Nature of Production will introduce the limitations of the linear economy and the environmental impacts of resource-intensive production. Students will learn about global resource consumption trends, material footprints, and major pollution challenges. They will also prepare a short analysis of resource use and environmental impacts in a selected industry sector.
2. Sustainable Development as the Basis for Circular Economy will present the origins and principles of sustainable development, including the Sustainable Development Goals (SDGs). Students will analyse how circular economy practices contribute to achieving selected SDGs through real-life examples.
3. Definitions, Objectives and Principles of Circular Economy will familiarise participants with the main circular economy frameworks and concepts developed by international organisations and the European Union. The topic will cover circularity principles, biological and technical cycles, and R-strategies. Students will evaluate the circularity of everyday products and propose improvements to increase their sustainability.
4. Circular Economy in International and EU Sustainability Policies will provide an overview of key global and European policies supporting the circular transition, including the European Green Deal and the Circular Economy Action Plan. Students will examine selected policy instruments and assess their potential impact on businesses and consumers.
5. Areas of CE: Design for Environment, Sustainable Production and Consumption, Waste Management will focus on eco-design principles, cleaner production methods, sustainable consumption patterns, industrial symbiosis, and waste management solutions. Students will develop redesign proposals for existing products based on Design for Environment principles.
6. Good Practices in Circular Economy Implementation will present examples of successful circular business models and industrial symbiosis initiatives from around the world. Students will analyse selected enterprises that have implemented circular economy principles and evaluate their environmental, social, and economic benefits.
7. Reverse Engineering as a Tool for Circularity will introduce reverse engineering techniques used to assess product composition, reparability, and recyclability. Students will investigate selected products and identify opportunities for improving their circular performance.
8. Digital Tools for Circularity Assessment – LCA and LCCA will provide practical training in Life Cycle Assessment and Life Cycle Cost Analysis. Participants will learn how to use OpenLCA software to evaluate environmental impacts and life-cycle costs, and they will independently create and analyse simple product models.

A key feature of the module will be the integration of theoretical learning with student-centred practical activities. Each topic will include individual assignments, case-study analyses, and problem-solving exercises designed to help students apply newly acquired knowledge in practice. Through these activities, participants will develop analytical, technical, and decision-making skills that are essential for implementing circular economy solutions in industry and services.

Upon completion, students will have gained a comprehensive understanding of circular economy principles, sustainability assessment methods, and practical tools supporting the transition towards a circular and sustainable economy.



GET INVOLVED!

We invite you to:

- Use our resources in your teaching or training
- Provide feedback or share additional tools
- Join upcoming events and workshops

Together, we can build a future-oriented education system that empowers learners with the green and digital skills they need to shape tomorrow's industries.

Thank you for being part of CircleREdu!

Let's innovate, educate, and collaborate for a circular future.



P.S. Share this newsletter with your colleagues and networks to help us reach even more educators and innovators!

PROJECT PARTNERS

- Bialystok University of Technology (Poland) - Project Coordinator
- Haaga-Helia University of Applied Sciences (Finland)
- Karlsruhe Institute of Technology KIT (Germany)
- Babes Bolyai University (Romania)



PROJECT WEBSITE AND SOCIAL MEDIA ACCOUNTS

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Co-Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Foundation for the Development of the Education System (FRSE). Neither the European Union nor FRSE can be held responsible for them.

