

LIFE-C PROMOTING LIFE CYCLE THINKING IN HIGHER EDUCATION

COURSE CONTENT HIGHLIGHTS: LIFE-C MODULES



The LIFE-C project has developed three educational modules designed to introduce and deepen students' understanding of life cycle thinking and assessment across environmental, economic, and social dimensions. These modules are being implemented in undergraduate and postgraduate curricula.

MODULE 1

INTRODUCTION TO LIFE CYCLE THINKING AND ASSESSMENT

Students are introduced to:

- ▶ the fundamentals of Life Cycle Thinking (LCT) and Life Cycle Assessment (LCA)
- ▶ essential skills to apply LCA across various scenarios
- ▶ techniques to interpret and analyse LCA results in terms of environmental impacts
- ▶ the value and practical usefulness of LCA in decision-making
- ▶ the ability to critically assess LCA outcomes and propose sustainability improvements for products and services

MODULE 2

APPLICATION OF LIFE CYCLE ASSESSMENT



Upon completing this module, students will:

- ▶ understand how LCA is applied in real-world contexts
- ▶ be capable of performing LCA on products and services
- ▶ interpret and analyse full LCA results
- ▶ critically assess outcomes, identify opportunities to reduce environmental impacts, and recommend sustainability improvements
- ▶ develop their own LCA studies for a variety of products and services

MODULE 3

SOCIAL LIFE CYCLE ASSESSMENT (S-LCA) AND LIFE CYCLE COSTING (LCC)

Students will:

- ▶ gain foundational knowledge in S-LCA and LCC, with insights into their use in both public and private sectors
- ▶ apply these methods to real-life product and service life cycles
- ▶ evaluate and analyse the results of S-LCA and LCC
- ▶ draw conclusions and suggest strategies to enhance the sustainability performance based on their findings

Coordinating Beneficiary

Poland



Silesian University
of Technology (SUT)

Associated Beneficiaries

Italy



Niccolò Cusano
University



ValueDo

Finland



Lappeenranta-Lahti
University of
Technology (LUT)

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EVENTS

LIFE-C Presented at National-Level Sustainability Webinar



On **March 11, 2025**, Dr. Inż. Szymon Sobek presented the LIFE-C project at a national webinar hosted by the SUT Faculty of Organization and Management. This event was organized under the Priority Research Area POB6 *“Climate and Environmental Protection, Modern Energy”*, as part of the initiative *“Education for Sustainable Development and Shaping Ecological Awareness.”*

Dr. Sobek shared the current progress of the LIFE-C project, introduced the three teaching modules, and announced the upcoming launch of the official e-learning platform. The webinar attracted nearly 100 participants and served as a valuable forum for connecting researchers and educators committed to advancing sustainability and life cycle thinking in higher education.

<https://www.polsl.pl/pob6/en/news/69086/pob6-scientific-seminar-11-03-2025-1-00-pm-online/>

LIFE-C at EURECA-PRO, UHasselt, Belgium



The LIFE-C project was also featured during the **EURECA-PRO** meeting at UHasselt, Belgium, on **March 14, 2025**. Representing SUT, Dr. Inż. Szymon Sobek presented the LIFE-C sustainability assessment and teaching framework to the European University on Responsible Consumption and Production community.

EURECA-PRO, one of the 65 European University Alliances, connects students, educators, and professionals across Europe to foster innovation, collaboration, and excellence in higher education. The meeting offered a great opportunity to showcase LIFE-C's educational tools and share insights with partner institutions dedicated to responsible consumption and production.

<https://www.eurecapro.eu/about-eureca-pro/>