

Explore the Sustainability Course Module

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Coordinators:



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Full Partners:

 Bundesministerium Bildung, Wissenschaft und Forschung

 Ministry of Science and Education



Associated Partners:



Aim of the short-course



The short-course “*Designing courses for sustainability*” of the priority area of sustainability aims to help educators integrate sustainable development into student-centred course design.

Participants will learn to apply Education for Sustainable Development (ESD) strategies, foster mindset and behaviour change, and prepare students to think critically, act responsibly, and contribute to a sustainable future in a rapidly changing world.



- + Design courses that incorporate sustainable development principles.
- + Apply Education for Sustainable Development (ESD) strategies in learning and teaching.
- + Use student-centred learning methods to inspire students to view sustainable development from fresh perspectives.



Units addressed

Three units addressed:

- ✓ **Unit 1.1 - Key concepts in Sustainable Development and worldwide perspective**
- ✓ **Unit 1.2 - Integration of Sustainable Development in Higher Education courses**
- ✓ **Unit 1.3 - Pedagogical strategies for Sustainable Development integration in Higher Education courses**



UNIT 1.1

Competences for Sustainable Development

Several authors and tools address Sustainability competences. The general competences are as:

UNESCO

- Systems thinking
- Critical thinking
- Anticipatory thinking
- Normative thinking
- Strategic thinking
- Collaboration
- Self-awareness
- Integrated problem-solving

[UNESCO, 2017, page 14](#)



GreenComp

- Valuing sustainability
- Supporting fairness
- Promoting nature
- Systems thinking
- Critical thinking
- Problem framing
- Futures literacy
- Adaptability
- Collective action
- Exploratory thinking
- Political gency
- Individual initiative

[GreenComp, 2022](#)



Lozano, R. et al.

- Systems thinking
- Interdisciplinary work
- Anticipatory thinking
- Strategic action
- Critical thinking and analysis
- Interpersonal relations and collaboration
- Communication and use of media
- Empathy and change of perspective
- Personal involvement
- Assessment and evaluation
- Tolerance for ambiguity and uncertainty
- Justice, responsibility and ethics

[R. Lozano, 2017](#)



Example 1

UNIT 1.1

Reflection on key concepts - Sustainability competences



Choose three core Sustainable Development oriented Competences according to UNESCO, Lozano or GreenComp

Você pode selecionar mais de uma resposta

Systems thinking

Critical thinking

Anticipatory thinking

Delegation

Enviar



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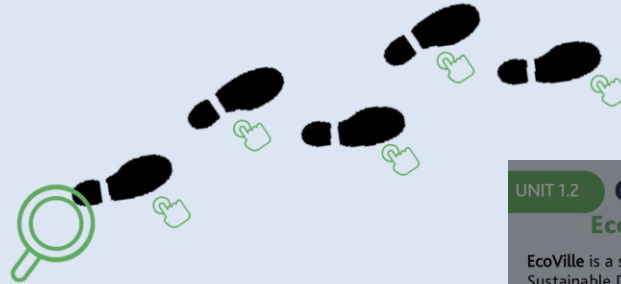
Example 2

UNIT 1.2

Case study

EcoVille: A Sustainable Community Initiative

EcoVille is a small community that has implemented a range of projects to meet several of the United Nations' Sustainable Development Goals (SDGs). These projects include renewable energy installations, organic farming cooperatives, education programs on sustainable practices, waste management systems, and healthcare initiatives focusing on preventive care.



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UNIT 1.2

Eco

EcoVille is a small community that has implemented a range of projects to meet several of the United Nations' Sustainable Development Goals (SDGs). These projects include renewable energy installations, organic farming cooperatives, education programs on sustainable practices, waste management systems, and healthcare initiatives focusing on preventive care.

EcoVille has invested heavily in solar and wind energy to power the community. This initiative primarily supports which SDG?

SDG 6: Clean Water and Sanitation

SDG 7: Affordable and Clean Energy

SDG 11: Sustainable Cities and Communities

SDG 13 Climate Action

Envier

United Nations' Sustainable Development Goals (SDGs)

organic farming cooperatives

healthcare

Achievements

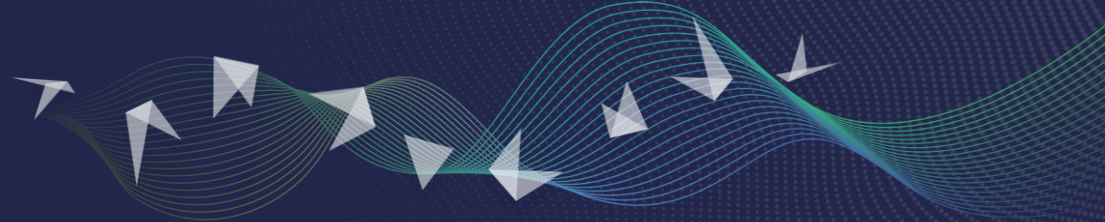
- ✓ Educators will be able to design student-centred courses that integrate sustainability.
- ✓ Educators will be able to apply their knowledge through quizzes, case studies, and reflective tasks across different contexts.
- ✓ Educators will be able to draw on examples from diverse fields to incorporate sustainability into their own course design.



Why ?

- ✓ Learn about integrating sustainability in course design and/or existing courses of other scientific fields
- ✓ Interactive short-course with real time feedback
- ✓ Align Learning and teaching with international priority areas, as sustainability
- ✓ Develop competences in (and for) sustainability in course design/improvement





Design sustainability-integrated impactful courses with confidence

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