Sustainability in Teaching -course

Session 5





Outline, objectives

- Sharing and co-developing teaching methods in groups
- Break
- Discussion on sustainability toolbox
- Introduction to values in sustainability
- Break
- Group discussion on values

Aalto-yliopisto
Aalto-universitetet
Aalto University

Intended learning outcomes of the session

After this session you should be able to

- Design and apply learning activities and assessment methods for sustainability learning
- Reflect on the role of values in teaching

Sulitest

- What are your thoughts on the usefulness of this tool?
- In what kind of situations would you consider using it?
- Write your spontaneous comments in the chat 3 min!

Groups

Group 1: Eero, Irina, Janet, Eeva B.

Group 2: Susan, Henrikki, Jacky

Group 3: Tamara, Janika, Julia

Group 4: Karolina, Eeva R., Jouni

Group 5: Ville, Henrik, Marja,

Oguz, Viktor, Sam





Group discussion

General guidelines:

Breakout room: 30 min

- Group 3 persons
- Discuss each method for 10 minutes.
- Make additions /specifications to your method (instructions) in FLINGA.

Topic of discussion:

Share the teaching method you described in your assignment. As a group, discuss and give feedback.

- What can be the learning outcomes of the activity? (E.g. which sustainability competencies?)
- How could the method or its instructions be further developed?

Flinga: https://edu.flinga.fi/s/ED2U4H3

Break 10 min







Sustainability in teaching toolbox

- There is a recognized need to share experiences and co-create a toolbox for sustainability integration for Aalto teachers.
- Toolbox for teachers (version 1.0) has already been published. To further develop it, we
 would like to receive your feedback and participation.
- Feedback on the content: give feedback to us regarding the page. As a teacher, what is most relevant for you? What would be helpful for you and your colleagues?
- Would you be happy to share your ideas for sustainability integration for the whole
 Aalto teacher community? We may ask some of you to share your methods for others as
 well.
- Sustainability in Teaching | Aalto University
- Feedback and contact: Paula Schönach <u>paula.schonach@aalto.fi</u> (or Meeri)



Assessment in sustainability education

What level is being assessed?

Level: specific task, course, programme, graduate performance / capabilities

What is being assessed?

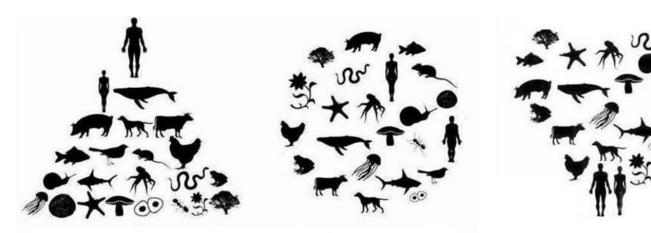
- Competencies / skills
- Knowledge & understanding
- Perceptions & attitudes & behavior

Who does the assessment?

- Student: reflective writings, scaled self-assessment, focus groups/interviews
- **Teacher:** regular course work, scenario / case test
- Test-based (Pre-defined set of criteria): conventional exam (multiple choice answers), performance observation, concept mapping



All actions are influenced by worldviews and values

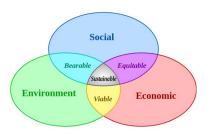


World as a resource "Anthropocentric"

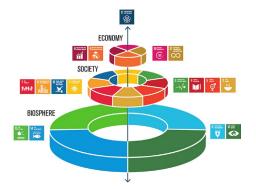
Interconnected

"Ecocentric"

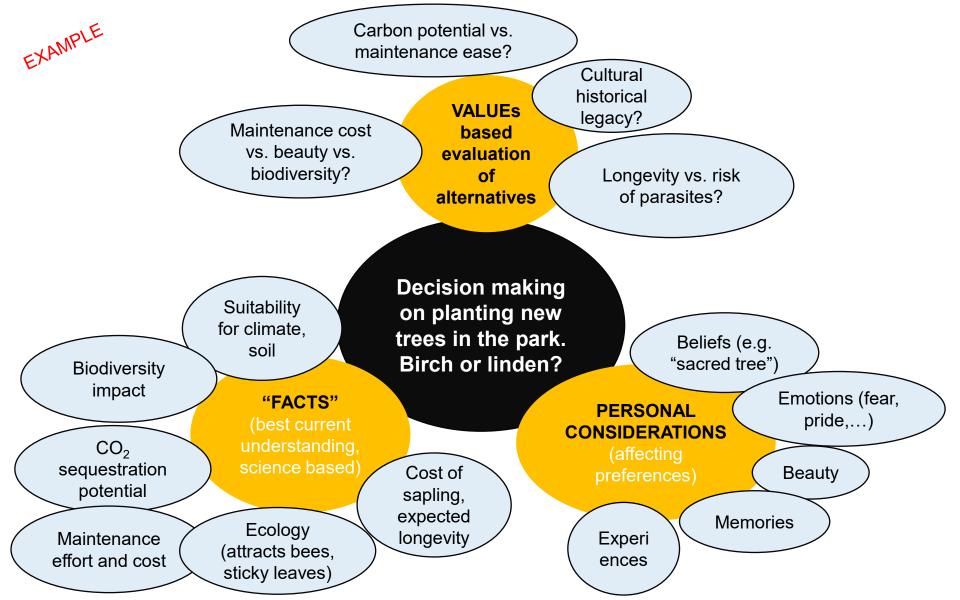
Regenerative











Sustainability dilemmas

Energy production

health vs. climate vs. biodiversity vs. security

Forestry / bioproducts

biodiversity vs. climate

Sustainable economy

growth (decoupling) vs. degrowth

Land use

recreational space vs. (critical) infrastructure indigenous land rights vs. critical minerals mining

Digitalization

affordability of services vs. accessibility marginalized groups vs. energy consumption





Individual reflection

What sustainability (/ethical) dilemmas have you identified

- in your field
- in the subject field of your teaching

- Write down in Flinga: https://edu.flinga.fi/s/EZD88FD
- Time: 5 min



Balancing with values in education

Values education as professional socialization

- Explicit and implicit
- Field specific
- Not fixed but on the move, may include contradictions
- Educator's values



Values education as subjectification

- Liberal democracies, freedom
- Empowering own disposition through critical thinking and reflection



"...encouraging students to develop a disposition to explore their world critically is a form of values-education; and that this may be the only truly legitimate form of values-education open to higher education." (Shephard et Egan 2018)



Pedagogies related to values-education

Characteristics of pedagogies related to values

- Students as active participants
- Time for reflection

Examples

- Experiential learning: action, reflection
- Sustainability assessment methods
- Visioning methods
- Participatory normative methods (e.g. negotiation methods)

Wiek et al. 2016; Shephard & Egan 2018



Examples of values-related learning outcomes

Student is able to:

- Explore their own values, preferences and norms
- Identify value differences and trade-offs
- Construct visions that draw upon sustainability values and principles
- Assess the sustainability impact of one's job activities and envision a sustainable future for one's profession

(Wiek et al. 2016)

Break





Designated group

Group 1: Tamara, Victor, Janet, Marja

Group 2: Jouni, Sam, Henrikki, Janika

Group 3: Karolina, Irina, Henrik, Oguz

Group 4: Eeva B., Susan, Julia

Group 5: Ville, Eeva-L. R., Jacky, Eero





Group discussion

General guidelines:

Breakout room: 15 min

- 15 min group discussion
- Designated groups
- Room chair: first one in alphabetics (father's first name)

Topic of discussion:

Based on the sustainability dilemmas identified earlier (5 min):

 What values do you recognize "hidden" or intentionally taught in your field and in your own teaching?

In Flinga (last 10 min)

How to address values in teaching?
 Share your thoughts and/or good practices.

Timeline of the course (changes possible)

Reading task for respective week	Mon	Tue	Wed	Thu	Fri	COURSE SESSION,
Tejedor et al	1721.10. Discussion with student (book time slot in time)					at 12-15 EET
Video	24.10.	25.10. Homework from session 3	26.10.	27.10.	28.10. Session 4: Teaching methods TapRoom	READING
Reading task Shephard & Egan 2018	31.10.	1.11.	2.11.	3.11.	4.11.	TASKS (due before contact sessions)
	7.11.	8.11. SULITEST Homework from session 4	9.11.	10.11.	11.11. Session 5: Teaching and assessment methods Values in teaching	
Reading task Moser 2015	14.11.	15.11.	16.11.	17.11.	18.11.	Home work assignment DLs
	21.11.	22.11. Homework from session 5	23.11.	24.11.	25.11. Session 6: Dealing with emotions and anxiety Closing	
	Deadline of final reflection: 9.12.					OTHER ASSIGNMENT

Next session...

- Assignment 5: (dl Tue 22.11.): Reflection on teaching methods
- Self-study on sustainability integration in courses (tool piloting!)
- Pondering with colleague or individually (prepare to discuss):
 Questions on emotions in teaching (see MyCourses)

Reading task: Moser 2015

Our final session on Fri 25.11.2022 on campus! U119 DELOITTE, Otakaari 1



Literature

Biesta, G. (2014) The beautiful risk of education. London: Routledge.

Cebrián et al. (2019) Assessment of sustainability competencies: a literature review and future pathways for ESD research and practice. The Central European Review of Economics and Management doi: http://dx.doi.org/10.29015/cerem.664

Redman et al (2020) Current practice of assessing students' sustainability competencies: a review of tools. *Sustain Sci* **16,** 117–135 (2021). https://doi.org/10.1007/s11625-020-00855-1

Rieckmann, M. (2018). Learning to transform the world: key competencies in ESD

Schinkel, A. (2009) Justifying Compulsory Environmental Education in Liberal Democracies. Journal of Philosophy of Education Vol. 43, No 4, 2009.

Shephard, K. & Egan, T. (2018) Higher Education for Professional and Civic Values: A critical reflection and analysis. Sustainability 10, 4442.

Wiek A, Bernstein M, Foley R, Cohen M, Forrest N, Kuzdas C, Kay B, Withycombe Keeler L (2016) Operationalising competencies in higher education for sustainable development. In: Barth M, Michelsen G, Rieckmann M, Thomas I (eds) 2016 Handbook of higher education for sustainable development. Routledge, London, pp 241–260.

