

Sustainable sanitation – course content (for teacher)

Instructions for teacher

This material is a part of the wider course package: Circular Economy for Water. The whole course contains water related topics: Regulations, Risk Assessment, Blue Economy, Sustainable sanitation and two case study examples of Sustainable wastewater treatment plants and Adsorption for wastewater treatment and water purification.

This specific material is about Sustainable Sanitation, it's principles, different ways to promote it and it's importance as a part of achieving Sustainable Development Goals (SDGs) by United Nations. After studying this material one will know how SDGs (sustainable development goals) will ensure availability and sustainable management of water and sanitation in a global level. Also selected case studies related to dry toilets will deepen the knowledge of the practical applications worldwide. Circular economy perspective is taken into account especially if all of the suggested material is covered.

Study materials are compiled mainly from online material and ready-to-use presentation. The Sustainable Sanitation package contains two files:

- Sustainable Sanitation - Description and assignments
- Sustainable Sanitation - Introduction (PP-presentation)

This is an assisting material especially for teachers who would like to get ideas how and what to teach about circular economy and Sustainable Sanitation. This material is free to use partially or entirely.

Advisable study material

To get familiar with the topic one can use the following videos:

Water action decade by UN (2018). Available: https://youtu.be/2rQ0TNhx_YQ

WCEF2019: Circular economy for Water. Available: <https://youtu.be/ugeMSdwqUj8>

Especially from time 22:35 - 37:00 minutes, presentation by Miriam Otoo: Innovative models for closing urban water and nutrient loops in low- and middle-income countries.

Assignments which can be linked to the course

Assignment 1: Abstract about drinking Water, Sanitation and Hygiene

Get familiar with WHO (2017) document: Progress on Drinking Water, Sanitation and Hygiene. Available: <https://www.who.int/mediacentre/news/releases/2017/launch-version-report-jmp-water-sanitation-hygiene.pdf>

Choose one of the main topics (drinking water / sanitation / hygiene)

Write a short abstract about the topic containing the following:

- Current situation of sustainable water/sanitation/hygiene (global perspective)
- Main problems related to the topic
- Options to improve the situation
- Presented goals, targets, and indicators for monitoring progress

- Timeline to achieve those goals
- Estimate the possibilities (why/why not) to achieve these goals

If you wish, you can use pictures and charts from the document.

Assignment 2: Essay about dry toilet seminars

Get familiar with the conference presentation of the Huussi- dry toilet seminars in 2018.

Available: <http://www.huussi.net/en/activities/dt-2018/dry-toilet-conference-2018/dt2018-presentations/>

Select 5 - 10 most interesting presentations and write an evaluative essay about them. Tell shortly about the selected projects:

- Where the projects are located (countries)?
- By whom (e.g. organizations) they are managed?
- For whom they are built?
- What are the main reasons for the projects?
- What are the main (suggested) outcomes?

Compare these findings with each other and with the SDGs (Sustainable Development Goals) and principles of the circular economy. Do you think that these applied studies have an impact on personal, local, national and/or global levels. Who will benefit the most?

Note! It is recommended to use also other references.

Assignment 3 (optional): Peer review of other students' assignments

The process

This material can be used in a various way. However, it is suggested to give for a student a schedule for it, especially if it contains peer review part of other students' assignments. It is also recommended to give for the student times and instruction when and how they can get assistance from and give feedback to the person who is in respond of this course. It is also good to test the www-links in advance, if they are not working properly the documents/videos can be found by descriptions given.

Feedback of this material can be sent to author of this course (pia.haapea(at)lab.fi)



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. View the license at <https://creativecommons.org/licenses/by-nc-sa/4.0/>.

Commercial use is allowed only to the partners of the Circular Economy UAS project 2018–2020 (OKM funding decision OKM/302/523/2017).