

## Blue Economy - 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 Blue Economy, it's principles for the marine ecology conservation. After studying this material one will know the principles of the blue economy and be aware of the SDG14 (Sustainable development goal 14). The understanding of the integration and possibilities of the blue economy and circular economy will be increased, especially if all the suggested material is covered.

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

- Blue Economy - Description and assignments
- Blue Economy - 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 of water and Blue Economy. This material free for use partially or entirely.

### Advisable study material

Principles of the Blue Economy can be learnt by these videos:

Perspectives on Blue Economy: <https://www.youtube.com/watch?v=JsexNRyPW1A>

The blue bioeconomy: <https://www.youtube.com/watch?v=WEp3fFleZc4>

The Blue Economy definitions: <https://www.youtube.com/watch?v=fzZMJi6uyto>

Also good (additional) information can be found from:

European Union report (2017) : Blue Growth Strategy

[https://ec.europa.eu/maritimeaffairs/sites/maritimeaffairs/files/swd-2017-128\\_en.pdf](https://ec.europa.eu/maritimeaffairs/sites/maritimeaffairs/files/swd-2017-128_en.pdf)

Vijay Sakhuja, Dr Kapil Narula. (2018). Perspectives on the blue economy. ISBN: 9789385563997

### Assignments which can be linked to the course

#### Assignment 1.

Get familiar with the UN's sustainable development goal 14. It's target and indicators

<https://sustainabledevelopment.un.org/sdg14>

Write a short essay the principle over all targets and consider how have the progress of these goals succeeded 2016 -2018. Do you think that it is possible to achieve the set goals by 2030?

Related videos:



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Kaupallinen käyttö sallittu vain KiertotalousAMK-hankkeen 2018–2020 (OKM rahoituspäätös OKM/302/523/2017) partnereille.

World Wildlife Day 2019 - Life below water: for people and planet: <https://youtu.be/k--Cyg67VZo>  
Plastic Ocean: [https://www.youtube.com/watch?v=ju\\_2NuK5O-E&feature=youtu.be](https://www.youtube.com/watch?v=ju_2NuK5O-E&feature=youtu.be)

### Assignment 2.

Get familiar with the publication of World Bank (2017): The Potential of the Blue Economy. Increasing Long-term Benefits of the Sustainable Use of Marine Resources for Small Island Developing States and Coastal Least Developed Countries

<https://openknowledge.worldbank.org/bitstream/handle/10986/26843/115545.pdf?sequence=1&isAllowed=y>

*part 1:* Write out the table 1 (see below).

*part 2:* Select five most important sectors related to blue economy from the previous table and organize them in the order of most important in your country/region point of view. Justify your opinion. Describe also:

- How are the principles of Circular Economy thinking related with the issues of the principles of Blue Economy?
- How can you integrate these principles into your personal life and/or your place of work/study

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

TABLE 1. The description, economical, value, related industries of the main sectors of blue economy

	Description	Economical value	Related industries/sectors	Other comments/remarks
Aquaculture				
Coastal and Maritime Tourism				
Marine Biotechnology				
Seafood harvesting				
Extraction of minerals				
Desalination				
Energy				
Transport				
Waste disposal				
Carbon Sequestration				
Ecosystem-based mgt				

### Overall instructions for assignments:

- You can also use other information sources. Don't forget the references.
- The Assignments can be in the form of word or Power Point.
- The evaluation criterias are: Quality of the answers vs. instructions and learning outcomes, NOT the length
- Clearness of the report
- The new and innovative perspective

### The process

This material can be used in a various way. However, it is suggested to give for a student a schelude 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.haaapea(at)lab.fi)