Environmental Impact Assessment EIA

Assignment instructions

**Aalto University
School of Engineering**

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8th Nov 2019

Today's agenda

13.05 – 13.25 EIA Quiz

13.30 – 15.30 EIA lecture by Karoliina Jaatinen / Afry

(break 14.15 – 14.30)

15.40 – 16.15

- Task 4B: EIA Case Reports, selecting your group's case & starting to plan the group work in breakout rooms

- Concept map check point: 5-10 min/group

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EIA Quiz

https://mycourses.aalto.fi/mod/quiz/view.php?id=660012

- 10 multiple-choice questions á 0,4p. = max 4p.
  - *Read carefully, if you are allowed to choose 1 or more options*

- 1 attempt:
  - 1 question/page – the answer cannot be altered after turning a page
  - To finalise the Quiz, select **finish attempt after Q10,** then from the next page select **Submit all and finish**.

- Time: 20 minutes

- After submission, you'll receive your total score and the right answers

Course timetable

Week	1		2		3		4		5		6	
Day	Wed 28.10.	Fri 30.10.	Wed 4.11.	Fri 6.11.	Wed 11.11.	Fri 13.11.	Wed 18.11.	Fri 20.11.	Wed 25.11.	Fri 27.11.	Wed 2.12.	Fri 4.12.

Topics and *tasks*

Frameworks
Task 1, DL 6.11

Concept map assignment (individual):1st DL 18.11. (tutoring), final DL 14.12.

Measuring SD
Task 2, DL 10.11.

Implementation: LCA
Task 3, DL 20.11.

Implementation: EIA
Pre-reading *Task 4, DL 27.11.*

Concept map tutoring!

Societal impact
Task 5, DL 4.12.

Final seminar

Course intended learning outcomes (ILOs):

1. define the concept of sustainability and understand the scientific, political, regulative and societal frameworks relating to its implementation [knowledge]

2. describe the principles of different types of methods and measures that can be used to assess sustainability and recognize their differences and limitations [knowledge]

3. apply selected method(s) used in sustainability assessment [skill]

4. promote sustainable development in the society trough his/her own field [identity]

5. recognize his/her own strengths and weaknesses in group working [identity]

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Workload and Grading of the course:
Weighing of the Tasks & Teaching sessions

Workload in 7 weeks in total = ~135 hours (19-20 hrs/week):

Working hours per week: 5-7hrs contact sessions + 3-5hrs concept map work (= reflection & deep learning) + 5-10hrs other independent or group work.

The grading of the course: the total amount of points from all the learning assignments + contact session attendance. Submission overdue = -25% points / submission. To pass the course, you need to submit all the tasks and assignments by Monday 14h Dec 2020 at 23.55.

Grading: 0-49 points = Fail; 50-60 = 1; 61-70 = 2; 71-80 = 3; 81-90 = 4; 91-100 = 5.

- ❖ **Concept map assignment**, Individual   = max 20p. (~25 hrs)
- ❖ **Task 1:** SD Science & Policies, Learning diary, Individual = max 8p. (~7 hrs)
- ❖ **Task 2:** Measuring sustainability, Presentation and reflection, Group = max 8p. (~7 hrs)
- ❖ **Task 3:** LCA/Rebound, Calculations & brochure, Group = max 10p. (~10 hrs)
- ❖ **Task 4:** EIA, Quiz (individual) & Presentation, Group = max 14 p.(~15 hrs)
- ❖ **Task 5:** Corporate responsibility, Sustainability evaluations, Group = max 10 p.(~10 hrs)
- ❖ **Contact sessions (10):** 2 points / attendance (Aalto feedback extra 2p.) = max 20p. (+2)(~25 hrs)
- ❖ **Peer and self assessment**   = max 10p.

The purpose of the assignment

1. Understanding what an EIA in EU includes and how the process is implemented

2. Learning how the EIA process is regulated and implemented in different parts of the world

3. Applying conceptual knowledge on sustainability in practice

4. Evaluating, how the EIA process promotes sustainable development at project level and holistically (zooming out)

5. Practicing international, multidisciplinary and multicultural team work, argumentation and presentation skills

Part B: Presentation on 27th Nov

Material: Case EIA Reports (international, 1 case/group)

Outcome: A 15-minutes presentation that should include:The key contents and <u>sustainability aspects</u> of your EIA Case, following the guiding points below:

1. Brief introduction to the project & EIA process (vs. EU process)
    1. *Basic information on the case and EIA process*
    2. *Legislative / regulatory framework of your EIA*
    3. *Does the EIA cover the whole life span of the project?*
    4. *What methods were used to assess the environmental impacts?*
    5. *What risks and uncertanties the report brought up?*

2. Sustainability evaluation
3. Conclusions

Evaluation criteria and grading

The evaluation of the presentation is based on the guiding points

(final points: *0,5 = max 10p.):

- Basic information, max 5p.
- Arguments used in sustainability evaluation, max 6p.
- Conclusions, max 4p.
- Way of presenting, max 5p.

Evaluation by the teacher and an opponent group (the points given by the opponent group will be used in deciding the final grade).

Total points of the Task 4: individual points from Quiz (max 4p.) + group points from presentation (max 10p.) = 14p.

Submission

The presentation can be either PowerPoint submitted to Mycourses, or some other form of presentation (Prezi etc.).

One group member submits the file (or link) to MyCourses discussion forum.

Submission Deadline: Fri 27th Nov at 9.00

(presentations start at 10.00 → one hour for the opponent group to review the slides beforehand)

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Opponent group

You are opponent for n+1 group (G1→G2, G2→G3, G3→G4, G4→G1)

Main tasks of the opponent group:

1. Check the presentation beforehand on 27.11. at 9.00-10.00
2. Take notes during the presentation (you can use the evaluation template for that)
3. Ask at least one question from the group after the presentation
4. Agree with your group on the evaluation and feedback given to the group (you'll have 20 min for this during the session).
5. Submit your evaluation and feedback to MyCourses as a reply to group's presentation (either by attaching the evaluation form, or by giving the same information as plain text to the description field.

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Cases:

1. Secured Landfill Facility, Philippines (2010)
2. Landuse planning, South Africa (establishing a holiday estate) (2013)
3. Busline in Tanzania (transportation system for Dar es Salaam) (2015)
4. Elecricity transmission lines network, Kenya (2010)
5. Shell/Non Associated Gas Project, Nigeria (drilling gas wells) (2015)
6. Ceduna Keys Marina, Australia (marina and community center) (2005)
7. Olkiluoto Nuclear Power Plant, Finland (extension by 4th unit) (2008)
8. Dredging for Sigatoga River, Fiji (2012)
9. Atlantic Salmon Fish Farm Extension, Scotland (2018)
10. Decentralized treatment plant for faecal sludge, Kenya (2020)

Discuss (~5min), which cases interest your group the most (top 3). Write your group's name and your top 3 options (in order) to Whiteboard.

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See you next week!

(no contact session on Fri 20th Nov: time for your group tasks)