

Essay = Home exam

Write an essay on the following subject:

Contributing to a good environmental and water quality as a WAT engineer

- The essay should be based on the lectures and lecture material on Monday, and on the given three book chapters (remember to **refer** to your sources adequately!).
- The essay ought to be max. four pages (excluding list of references) with 25mm marginal, 12pt font and a line spacing of 1.5.
- Submit the essay (as .doc or .pdf) through Turnitin-submission box in MyCourses.

Material to be used in the essay

Lectures & lecture material

Reading material in My Courses (you need to be in Aalto's network in order to access the e-books):

- Day, J. & Dallas, H.: Understanding the basics of water quality. In Grafton, R.Q. & Hussey, K.: Water resources planning and management, Cambridge University Press 2011 (Chapter 4, pp. 68-89).
- Sullivan, C.A. & O'Keeffe, J.: Water, biodiversity and ecosystems: reducing our impact. In Grafton, R.Q. & Hussey, K.: Water resources planning and management, Cambridge University Press 2011 (Chapter 6, pp. 117-130).
- Almasri, M.N. & Kaluarachchi, J.J.: Groundwater quality: Fate and transport of contaminants (NOTE: read only pages 36-44). In Aral, M.M & Taylor, S.W.: Groundwater quality and quantity management, American Society of Civil Engineers 2011 (Chapter 3, pp. 36-44).

(You can refer to lab exercises on Tue-Thu if you wish, but this is not obligatory)

→ Essay assignment supports you to gather the essential knowledge and to reflect on that with your future profession as an engineer → achieving the week's learning outcomes

Your essay could answer e.g. to the following questions:

- How to define a good environmental and water quality?
- What affects good environmental and water quality?
- What kind of consequences contamination may cause?
- What are the key institutional, legal and economic aspects that relate to managing environmental and water quality?
- Identification of different disciplines that are connected to managing good environmental and water quality;
- Reflection to own professional performance and future requirements that relate to contributing to environmental and water quality management.