

## Module 1. Complex risk assessment of waste disposal

# Course 3. Solid wastes and environmental risks.

Tyumen State University

3 ECTS

### aim of the course

Waste disposal sites (storage and landfilling) are considered as sources of high environmental risk at all operation stages (design, construction, operation, reclamation).

### competences

### obtained by students

be able to identify eco risks related to operation of wastes management facilities and have skills and competence to develop an algorithm of environmental monitoring of waste management facilities impact



### learning outcomes

### after this course students will be able to

- Have knowledge of best available techniques for waste storage facilities.
- Able to analyze the rules of natural conditions and the rules for determining the area for storage and disposal of waste.
- Able to produce, develop and evaluate the feasibility of environmental monitoring to assess the impact of waste disposal sites environmental effects.
- Able to choose and design technology of waste storage and disposal of waste and technology of disposal sites reclamation.

### course content

### main topics

- Design and construction of waste disposal sites
- Operation of waste disposal sites
- Environmental monitoring of waste disposal sites
- Reclamation of waste disposal sites

*The course was tested in the educational process of students of Tyumen State University and during the Summer International School "Green Technologies".*



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