MODULE OF WASTE TREATMENT AND SOIL PROTECTION

Title of Study Programme and Code	Type (compulsory/optional)	Cycle	Year of study when the component is delivered (if applicable)
Environment Protection Engineering, 6531EX042	Compulsory	1st	3rd
Semester/trimester when the component is delivered	**Number of ECTS credits allocated**	**Language of instruction**	**Mode of delivery (face-to-face/e-learning/…)**
5th	3	Lithuanian	Face- to - face

Learning outcomes		Study methods	Assessment methods
After completion of the study subject, a student should be able:		Exercises; Consultations; Tutorial classes; Team work; Individual work.	Defense of project work; Solving presentation of analyzed problem.
LO 1	To understand waste management and soil conservation techniques and prevention methods.		
LO 2	To find waste management and soil protection relevant legal, technical and scientific information sources in public and in specialized databases.		
LO 3	To know how to apply the dispersion of pollutants in the soil and biogas generation simulation programs and methods.		
LO 4	To assess the environmental aspects of waste management.		
LO 5	To choose waste management technologies and the necessary environmental protection measures in waste management.		
LO 6	To solve environmental problems in selecting technologies, enabling processing of waste, the minimization of environmental pollution by waste time.		
LO 7	To solve problems communicating with other participants in problem solving.		
LO 8	To solve problems gather information, analyze it and provide solutions suited to the specific problem.		
LO 9	To decide to waste management and soil protection problems.		
LO 10	To solve problems, working in teams, headed the team.		
LO 11	To perceive the moral responsibility for the decisions and work to solve problems and the module design work.		

Prerequisites **(these courses must be sucessfully completed prior to taking this particular course)**

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Course content

1. Requirements for project work. Topics Overview of project work. Project work structure. Project work of theoretical training..
2. General requirements for technological calculations project work.
3. Introduction to the problem teaching/learning.
4. The waste management policy. Waste classification.
5. Waste management requirements for different industries.
6. Waste management requirements for industry.
7. Waste disposal in landfills.
8. The low-waste technology.
9. Packaging and packaging waste.
10. Waste processing techniques. Waste incineration.
11. Hazardous waste management.

Recommended or required reading and other learning resources/tools

1. UNEP. 2005. Solid waste management.
2. Tchobanoglous, G.; Kreith, F. 2002. Handbook Of Solid Waste Management.
3. Takele Tadesse. 2004. Solid and hazardous waste management.