## MODULES, COURSES AND COMPETENCES

Name of modules	Courses	Competences
Module 1	Introduction to	Ability to assess and rank risks associated with waste management
Complex risk	environmental risks	(social, economic and environmental risks).
assessment of	Environmental, social	Ability to choose technologies for waste management facilities and
waste	and economic risks	manage environmental monitoring of soil, water, air and nature.
management	/(ERA).	
	Solid waste and environmental risks	
Module 2	Basics of ecological	Ability to illustrate self-cleaning power of nature and use biomarkers /
Biotechnologies	biotechnologies	bioindicators / biological test systems.
for waste	BATs of waste utilization	Ability to create new consortium, bio preparations for degradation
utilization	by biological methods	pollutants and calculate and design industrial facilities for biological treatment and valorization.
Module 3	Basics of waste	Ability to define the main methods and technologies for separation,
Non-energy	utilization	reuse and utilization of outputs
technologies for	Reuse of side products	Ability to select schemes and define operational parameters of waste
waste utilization	and outputs	treatment based on physico-chemical processes
	Physico-chemical	
	treatment methods in	
	waste management	
Module 4	Waste-to-energy plants	Ability to select proper methods to produce energy from the waste
Energy	and technologies	Ability to select schemes and define operational parameters for energy
technologies for	Energy efficient	efficient waste utilization
waste utilization	technologies in waste	
	treatment	

Module 5	Modeling of business	Ability to apply the mechanism of decision-making process
Development of	processes in the field of	Ability to organize the business processes in the field of waste
business and	waste management	management
entrepreneurship	Business planning for	
for sustainable	sustainable waste	
waste	management projects	
management		
Module 6	Institutional approach to	Ability to apply the mechanism of decision-making process;
Public	SWM decision-making	Ability to analyze and revise public and municipal governance in SWM.
administration	Public and municipal	
and municipal	governance in SWM	
governance in	Budget and financial	
Sustainable	base of SWM	
Waste		
Management		
Module 7	Theory and practice of	Ability to produce, develop and evaluate the feasibility of the projects
Environmental	waste management in	on waste prevention and waste utilization in companies
management and	companies	Ability to implement the waste management systems (environmental
waste prevention	Waste prevention	policy development, significant aspects identification, stakeholder
	Modelling of dispersion	analysis, environmental programme creation, audit conducting, etc.)
	and diffusion of	Ability to model the dispersion and diffusion of pollutants
	pollutants	
Module 8	Introduction to LCA	Ability to model and assess both municipal and industrial waste
Life cycle analysis	based on ISO 14040	streams from the beginning to the end
and life cycle	series	Ability to apply environmental management tools
costing	Application of LCA and	
	ISO 14001 for waste	
	management	