

Course Unit Descriptor

<b>Study Programme:</b> Master Academic Studies in Chemistry - Quality Control and Environmental Management, Master Academic Studies in Environmental Protection - Environmental Protection Analyst			
<b>Course Unit Title:</b> Waste Management			
<b>Course Unit Code:</b> IKK-509			
<b>Name of Lecturer(s):</b> Associate Professor Aleksandra Tubić			
<b>Type and Level of Studies:</b> Master of Science Degree			
<b>Course Status (compulsory/elective):</b> Elective			
<b>Semester (winter/summer):</b> Summer			
<b>Language of instruction:</b> English			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face			
<b>Number of ECTS Allocated:</b> 5			
<b>Prerequisites:</b> None			
<b>Course Aims:</b> Based on the previously acquired knowledge of solid and hazardous waste, students gain extensive knowledge of integrated waste management and improve their knowledge of resources, energy saving and environmental protection by applying the best available techniques.			
<b>Learning Outcomes:</b> After completing the course, students can explain the methods of waste management in detail, describe the legal framework and the methods for preparation of management plans. Students can independently apply their knowledge to waste management and the implementation of new waste treatment technologies that are environment-friendly.			
<b>Syllabus:</b> <i>Theory</i> Evaluation of waste as a resource. Waste and sustainable development. Integrated waste management. Waste treatments that are environmentally friendly and the disposal of waste in well-engineered landfills. The legal framework on waste management: national regulations, local government regulations and legislation on waste. Preparation of the management plan. <i>Practice</i> Practical instruction follows the theoretical instruction.			
<b>Required Reading:</b> 1. Forbes R McDougall, Peter R White, Marina Franke and Peter Hindle, <i>Integrated Solid Waste Management: second edition</i> , Blackwell Science, 2001. 2. P.N. Cheremisinoff, <i>Handbook of Solid Waste Management and Waste Minimization Technologies</i> , BH, Amsterdam-Tokyo, 2003. 3. G. Davidson, <i>Waste Management Practices: Literature Review</i> , Dalhousie University - Office of Sustainability, 2011.			
<b>Weekly Contact Hours:</b> 4	<b>Lectures:</b> 2	<b>Practical work:</b> 2	
<b>Teaching Methods:</b> Lectures and seminar			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	5	Written exam	30
Practical work	15		
Seminar	30	Oral exam	10
Preliminary exam	10		