

Course Unit Descriptor

<b>Study Programme:</b> Doctoral Academic Studies in Environmental Protection			
<b>Course Unit Title:</b> Environmental Monitoring (advanced course)			
<b>Course Unit Code:</b> DZZS-707			
<b>Name of Lecturer(s):</b> Full Professor Milena Bečelić-Tomin			
<b>Type and Level of Studies:</b> PhD degree			
<b>Course Status (compulsory/elective):</b> Elective			
<b>Semester (winter/summer):</b> Winter			
<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> 15			
<b>Prerequisites:</b> None			
<b>Course Aims:</b> Training students for individual decision-making in the design of environmental monitoring with the aim of successful environmental management.			
<b>Learning Outcomes:</b> Training students to use the information from monitoring programs in order to manage the different environmental media.			
<b>Syllabus:</b> <i>Theory</i> Providing quality environmental analysis - determination of the required information for environmental management, and information that can be obtained by monitoring. Designing a monitoring network to assess the state of the environment. Data collection, dissemination and application of information (analysis using software application, forms for data). Case study - monitoring project. <i>Practice</i> Case studies: the application of the learned knowledge in developing the optimized monitoring program from the analysis of the current state, through sampling and analysis in the laboratory to the use of information obtained by monitoring. The application of information systems in monitoring.			
<b>Required Reading:</b> 1. P. Quevauviller: Quality Assurance for Water Analysis, 2002. 2. F.R. Burden, D. Donnert, T. Godish, I. Mckelvin: Environmental Monitoring Handbook, McGraw-Hill, 2004. 3. J. Artiola, I. L. Pepper, M. L. Brusseau: Environmental Monitoring and Characterization, Elsevier Science & Technology Books, 2004.			
<b>Weekly Contact Hours:</b> 10	<b>Lectures:</b> 5	<b>Practical work:</b> 5	
<b>Teaching Methods:</b> Desk study projects			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	/	Written exam	50
Practical work	/	Oral exam	50