

Study Programme: Environmental Engineering
Course Unit Title: Basic Principles of Water Management
Course Unit Code: Z420
Name of Lecturer(s): Assistant Professor Visnja Mihajlovic, PhD
Type and Level of Studies: Bachelor Academic Degree
Course Status (compulsory/elective): Elective
Semester (winter/summer): Winter
Language of instruction: English
Mode of course unit delivery (face-to-face/distance learning): Face-to-face
Number of ECTS Allocated: 6
Prerequisites: None
<p>Course Aims:</p> <p>The course aim is to introduce students to the concept of sustainable development, environmental protection system, legislation in the field of environment and global issues of environment. Master the course should enable students to understand complex relationships between stockholders of the sustainable development, as well as to point out the necessity of multidisciplinary approach to the problem.</p>
<p>Learning Outcomes:</p> <p>Students should use acquired knowledge in further education, in professional courses above all. Mastering this course is the starting point in the courses which have the objective to solve existing problems in the field of environmental protection. Students will learn about different resources which are used today, their advantages and disadvantages regarding the environment and pollution.</p>
<p>Syllabus:</p> <p><i>Theory</i></p> <p>Natural resources, Fossil – renewable resources, EU thematic strategy as a frame for sustainable use of natural resources, Natural resources and national strategy of Serbia for the accession to the EU, Elements of the environment being regulated, Concepts of integral environmental protection and control; Rio conference and Agenda 21, Conference in Johannesburg, Environmental protection convention, International organizations, EU laws in the field of environmental protection, EU thematic strategies and strategy for accession of Serbia to the EU, National legislation in the field of environmental protection. Global atmospheric changes, Potential of global warming, Prediction of moderate global temperatures, Regional impact of temperature change, CDM change, Systematic connection of sustainable use of natural resources and the living environment, System of national accounts and increase in national income as a sustainable development indicator, Economic indicators,</p> <p><i>Practice</i></p> <p>During lectures, adequate examples related to the knowledge from the lectures are elaborated with active participation of students.</p>
<p>Required Reading:</p> <ol style="list-style-type: none"> 1. López, Ramón, and Michael A. Toman. Economic Development and Environmental Sustainability - New Policy Options Oxford: Oxford University Press, 2006 2. Daniel B. Botkin, Edward A. Keller - Environmental Science John Wiley & Sons, 2003

Weekly Contact Hours: 8	Lectures: 4	Practical work: 4	
Teaching Methods: Lectures and students group work			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	70
Test I and Test II	20		