

<b>Study program: Communal Engineering</b>			
<b>Course: Urban Ecology</b>			
<b>Professor: PhD Danijela Zlatković</b>			
<b>Status of course: compulsory</b>			
<b>ECTS credits: 7</b>			
<b>Pre-requisites: none</b>			
<b>Aims of the course:</b> Preparing students to: <ul style="list-style-type: none"> <li>- apply new scientific knowledge, skills and abilities necessary for solving complex environmental issues;</li> <li>- obtain knowledge and scientific awareness of the sources, types and forms of environmental threats, and about the needs and possibilities of preventive, reactive and remedial action in solving ecological problems;</li> <li>- consider the impacts of construction of buildings on the environment and apply criteria for environmentally sound construction.</li> </ul>			
<b>Learning outcomes:</b> Students will be trained to: <ul style="list-style-type: none"> <li>- recognize forms, sources, and causes of endangerment of basic elements of the environment (air, water, soil, etc.);</li> <li>- manage the impacts of degradation processes and the consequences of pollution;</li> <li>- manage environmental risks and environmental delinquencies;</li> <li>- ensure environmental protection through the function of a security system, as well as through strategies for development of environmental protection in the future.</li> </ul>			
<b>Syllabus:</b> <i>Theoretical part</i> Regulations - instruments of protection. Influence of facilities and works on the environment. Spatial planning and its environmental impact. Criteria for ecological evaluation of materials. Characteristics of building materials. Harmfulness of certain materials to human health. Water pollution: quality, resources and control. Air pollution: primary / secondary pollutants, suspended particles, monitoring, control procedures. Land pollution: pollutants, pH control, neutralization; recycling of glass, plastics, metal and paper. Prevention of pollution, energy conservation, architectural solutions, waste reduction.			
<b>Literature:</b> <ol style="list-style-type: none"> <li>1. Grupa autora: <i>Ekološki problemi gradova</i>, Ekologika, Belgrade 2004.</li> <li>2. Lješević M.: <i>Urbana ekologija</i>, Geografski fakultet Univerziteta u Beogradu, Belgrade.</li> <li>3. Milutinović Slobodan: <i>Urbanizacija i održivi razvoj</i>, Fakultet zaštite na radu, Niš, 2004.</li> </ol>			
<b>Number of active classes</b>			Other forms of teaching:
Lectures: 4	Practical classes: 3	Laboratory classes: 0	
<b>Teaching methods:</b> Interactive classes incl. solving practical examples.			
<b>Grading system</b> (maximum 100 points), <b>grading scale</b> from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
<b>Pre-commitments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
activity during lectures	10	written exam	-
colloquium(s)	20 + 15	oral exam	45
seminar paper(s)	10		
<b>Sum</b>	<b>55</b>	<b>Sum</b>	<b>45</b>