

Study Program : Urban Engineering				
Type and level of studies: Bachelor				
Course unit: Solid Waste Management				
Teacher in charge: Nebojša Jovičić				
Language of instruction: <i>English</i>				
ECTS: 6				
Course requirements: Energy and environmental management				
Semester <i>Summer Semester</i>				
Course unit objective				
<ul style="list-style-type: none"> - To introduce the students to the basics elements of integrated solid waste management - To give the students necessary knowledge and skills for design and conducting sustainable locale and regional strategy for solid waste management. 				
Learning outcomes of Course unit				
After finishing the course students will be able:				
<ul style="list-style-type: none"> - To recognize the significance of integrated solid waste management, - To analyze competently low regulation in the area of solid waste management, - To conduct procedure of making sustainable locale and regional plans for solid waste management. 				
Course unit contents				
<i>Theoretical classes</i>				
Basics of Solid Waste Management. Definitions and basic concepts. Integrated Waste Management. Sources, the characteristics and the amount of solid waste. Waste collection. Transport of waste. Transfer of waste. The reduction of waste. Recycling. Composting. Waste disposal. Sanitary landfills. Thermal treatment of waste				
Legal framework. Responsibilities in waste management. National regulations. The regulations of the European Union				
Municipal solid waste. Status of municipal waste in Serbia. Assessment of the future status				
<i>Practical classes</i>				
Techno-economic analysis of waste collection and transport				
Assessment of environmental impact of solid waste management using modern software tools (EaseTech)				
Optimization of solid waste collection by using ArgGIS software				
Literature				
George Tchobanoglou, Frank Kreith, Handbook of Solid Waste Management, Second Edition Copyright / Pub. Date: 2002 The McGraw-Hill Companies, Inc				
Number of active teaching hours				Other classes
Lectures: 2	Practice: 2	Other forms of classes	Independent work:	
Teaching methods				
Teaching is done through lectures, exercises and independent work of students. In the lectures, students obtain basic information. In the exercises, students acquire practical knowledge and skills to make local and regional plan for solid waste management.				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	10	oral examination		
practical classes/tests		written examination	30	
Seminars/homework	30		
Project	30			
Other				
Grading system				
Grade	No. of points	Description		
10	91-100	Excellent		
9	81-90	Exceptionally good		
8	71-80	Very good		
7	61-70	Good		
6	51-60	Passing		
5	0-50	Failing		