

Study program: Environmental protection			
Type and level of study: Master academic studies			
Course Title: Waste management			
Teachers: Jasna Stepanov			
Status: Obligatory II semester			
ECTS: 8			
Prerequisite: None			
The goal of course The Goal of the course “Waste management” is to introduce students to the communal and industrial waste , integrated waste management and valorization of waste as material and energy resources.			
The outcome of the subject After adoption of knowledge of waste management based on provided papers and presentations, students will be able to identify the types of waste generated in the municipalities and industrial processes , and to choose treatment generated waste and to minimize its impact on the environment, as well as to analyze the impact of waste on extraction of resources and a potential for use as an alternative fuel.			
Syllabus <i>Theoretical study</i> – Industrial Processes and waste materials; characterization and classification of waste; management of non-hazardous, inert and , hazardous waste; method of treatment according to the characteristics of the waste; programs to minimize waste; The concept of cleaner production and cleaner technologies; indicators for waste, lifecycle analysis of waste <i>Practical classes</i> – Discussion on good and bad examples in waste management, development of cadastre and management plans implementation of IWM 2 software to waste management			
Literature 1. Г.Вујић, и др.. Управљање отпадом у земљама у развоју, Издавач :ФТН, Нови Сад 2012, ИСБН 978-86-7892-411-8 2. Ристић М., Управљање чврстим отпадом:технологија прераде и одлагања чврстог отпада, Бор, Технички факултет, (2006) ИСБН 86-80987-4 3. Н.Stevanović- Carapina, А.Jovović, Stepanov J., Life Cycle Assessment as a tool in the waste management strategic planning , ISBN 978-86-87785-26-7 Publisher: Educons University, monographs. 4. Wagner, Bernd, Enzler, Stefan: Material Flow Management: Improving Cost and Efficiency and Environmental Performance, Springer, 2006. 5. Brunner PH :Practical Handbook of Material flow analysis ,Lewis Publishers, USA , 2004, 6. Material from lectures			
Number of lectures:			Other Classes
Lectures: 3	Practices: 3	Other forms of teaching:	
Student research work:			
Teaching methods:			
Score (maximum 100 points)			
Pre-commitments	Poens	The final exam	Poens
Activity during lectures	10	Written exam	30
Practical classes	10	Oral examination	
Colloquia	10		
Seminars	40		
<i>Total</i>	70		30