

Study program: Waste management			
Course title: Waste processing technology			
Professor/assistant: PhD Aleksandra D. Boričić			
Type of course: compulsory			
ECTS credits: 7			
Pre-requisites: -			
Aims of the course: Preparing students to:recognize the sources of waste materials, introduce the current methods for the processing of waste materials,recognize the advantages and disadvantages of methods for processing certain types of waste materials,recognize the effects of waste treatment on the environment,introduce legal regulations in the field of waste material processing.			
Learning outcomes: Student is able to: anticipate and calculate the amount of waste for the following period,analyze the composition of waste from the aspect of processing convenience,propose solutions for the processing and reuse of waste materials, depending on the composition of waste,implement an integrated waste management system, monitor and propose corrections in processes in the processing of waste materials,monitor and implement legal regulations in the field of waste materials processing,propose solutions for reducing the environmental impact of emissions from the waste processing plant.			
Syllabus			
<i>Theoretical part</i> Sources and properties of waste materials. Types of waste materials. Prediction of the composition and quantity of waste. Factors that influence the generation of solid waste. Hazardous waste materials. Treatment of hazardous waste materials. Recycling of waste materials. Thermal treatment of waste materials. Incineration with the use of heat. Biological methods for energy utilization. Sanitary deposit.			
<i>Practical part</i> Creating a project task as an independent or team work.			
Literature			
1. Jovičić N., <i>Upravljanječvrstimotpadom, MašinskifakultetKragujevac, 2005.</i>			
2. RistićM.,Vuković M., <i>Upravljanječvrstimotpadom: tehnologijeprerade i odlaganjačvrstogotpada, TehničkifakultetBor, 2006.</i>			
3. Vujić G. i dr., <i>Upravljanjeotpadom u zemljama u razvoju, Fakultettehničkihnauka, NoviSad, 2012.</i>			
Number of active classes			Other forms of teaching:
Lectures: 3	Practical classes: 2	Research work:	
Teaching methods Combined, interactive with solving examples from practice.			
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade7 from 61-70 points, grade8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
Pre-exam obligations	points	Final exam	points
activity during theoretical lectures	10	written exam	30
practical training	10	oral exam	
colloquium(s)/seminar papers	40/10		
Sum	70	Sum	30