

Study program: Waste management			
Course title: Management biodegradable waste			
Professor/assistant: Ph D Nikola T. Stolic			
Type of course: elective			
ECTS credits: 7			
Pre-requisites:			
Aims of the course:			
Preparing the student to:			
- recognized the deviation, the type of biodegradable waste composition			
- I understood physics, chemistry and biological characteristics of biodegradable waste,			
- used the method for the treatment of biodegradable waste,			
- Recognized the advantages and disadvantages of the method for the treatment of biodegradable waste in relation to the composition of waste,			
- I passed legislation on the regulation of biodegradable waste management.			
Learning outcomes:			
Students are able to:			
- Analyzed biodegradable waste from the aspect of convenience for certain treatment,			
- proposed a method for the treatment of biodegradable waste in dependence on the type of waste,			
- send and suggest corrections in the process of the treatment of biodegradable waste,			
- send and receive statutory regulation from the field of management biodegradable waste,			
- Proposed solutions for the removal of a medium-sized emission from plants for the treatment of biodegradable waste.			
Syllabus			
<i>Theoretical part</i>			
Sources of biodegradable waste. Includes biodegradable waste composition. Biodegradable waste is a billiard pore. Biodegradable waste animal waste. Mulled water from the water. Physical, chemical and biological characteristics of biodegradable waste. Method for the treatment of biodegradable waste: aerobic and anaerobic method.			
Technology composting method composting: static and aeration. Composting at court. Consumption of product composting. Technology process anaerobic digestion. Construction of adaerobic digestion. Chemical and biological processes in anaerobic digestion. Posttreatment product anaerobic digestion: biogas, compost and liquid fertilizer. Use of the product anaerobic digestion. The emission in the animal is the middle of the facilities for the treatment of biodegradable waste. Legislation from the field of biodegradable waste management.			
<i>Practical part</i>			
Exercise, Other forms of instruction, Study research work			
Literature			
1. S. Ognjenović, <i>Kompost – srce organske bašte</i> , Delfi,.			
2. M. Stanijević, S. Simić, A. Jovović, D. Radić, M. Obradović, D. Todorović, <i>Biogas – dobijanje i primena</i> , Mašinski fakultet Beograd, 2014.			
3. C. Polprasert, <i>Organic Waste Recycling Technology and Management- Third Edition</i> , IWA Publishing, 2007.			
Number of active classes			Other forms of teaching:
Lectures: 3	Practical classes: 3	Research work:	
Teaching methods Teaching is interactive in terms of lectures, auditory, laboratory and Rachunar exercises. The lecture is deceptively interpreted by theoretical construction as a characteristic example for the sake of cognitive constructions. At Racunar Exercises, information and communication technology is used in acquiring know-how from the entertainment company. Before and after lectures and exercises, consultations are held.			
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	40
practical training		oral exam	
colloquium(s)/seminar papers	40+20		
Sum	60	Sum	40