

<b>Study program: Waste management</b>			
<b>Course title: Wastewater treatment technology</b>			
<b>Professor/assistant: PhD Mladen Nikolic</b>			
<b>Type of course:</b> elective			
<b>ECTS credits:</b> 7			
<b>Pre-requisites:</b> -			
<b>Aims of the course:</b> Preparing the student to: - recognized spring and waste water, - recognized polluting materials in the waste water, - used the method of waste water treatment of urban communities, - he / she perceived optimal action, technology and facilities for treatment of communal and industrial wastewater, - recognized the advantages and disadvantages of the method for treating wastewater in relation to the composition of wastewater, -knew how to comply with a statutory regulation.			
<b>Learning outcomes</b> Student is able to: - analyze and solve a particular practical problem in the system of wastewater treatment, - select wastewater treatment technology for a particular case. - send and suggest corrections in the process of treatment of wastewater, - send and receive a corresponding legal regulation.			
<b>Syllabus</b> <i>Theoretical part</i> Generally characteristic of waste water. Communal drops off water. Industrial water is wasted. Method for treatment of waste water. Mechanical treatments (flow measurement, deposition, flotation, aggregate deposition, grid ...). Physico-chemical treatments (coagulation, PH levels, oxidation, adsorption, aeration). Biological treatments (active mud, suspending matter, bioinfiltration, methane production ). Disinfection. Law regulations and standards for wastewater treatment. <i>Practical part</i> Application of theoretical knowledge to solve specific problems of wastewater.			
<b>Literature</b> 1. M. Stanojević i dr, <i>Areacija otpadnih voda</i> , ETA, 2006. 2. D.Parenović, M.Knežević, <i>Osnove tehnologije prečišćavanja otpadnih voda</i> , Tehnološko-metalurški fakultet Beograd, 2013. 3. D. Ljubisavljević, A. Đukić, B. Babić, <i>Prečišćavanje otpadnih voda</i> , Građevinska knjiga, 2004. 4. P. M. Stanisavljević, <i>Tehnologija prerade otpadnih voda i industrijskog opasnog otpada</i> , Visoka tehnička škola strukovnih studija Požarevac, 2010			
<b>Number of active classes</b>			Other forms of teaching:
Lectures: 3	Practical classes: 2	Research work:	
<b>Teaching methods</b> Teaching is interactive in terms of lectures, auditory, laboratory and Rachunar exercises. On the lecture the theoretical partition is propagated by a characteristic example for the sake of laxed sense of construction. The racecourse training uses information communication technology in acquiring knowledge from a post-paid company. Before and after lectures and exercises, consultations are held.			
<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, grade7 from 61-70 points, grade8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
<b>Pre-exam obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
activity during theoretical lectures	<b>10</b>	written exam	
practical training	<b>20</b>	oral exam	<b>30</b>
colloquium(s)/seminar papers	<b>30+10</b>		
<b>Sum</b>	<b>70</b>	<b>Sum</b>	<b>30</b>