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Study program : U	Jrban engineering				
Type and level of studies: Bachelor study					
Course unit: Rer	ewable energy so	urces			
Teacher in charg	ge : Milan Despoto	vić			
Language of instruction: English					
ECTS: 6					
Prerequisites:					
Semester: Winter semester					
The objective of sources, such as a energy.	ctive this course is to pi solar energy, geot	rovide students knowledg hermal energy, wind ener	e and skills in the field of gy, biomass energy and s	f renewable energy small hydro power	
Learning outcom	es of Course unit				
The students will utilization, and to design, use or main	be able to understa apply acquired kno intain systems that	nd technical, economic and owledge and skills in furthe utilize renewable energy so	political aspects of renew r education, as well as in p purces.	vable energy sources practice, in order to	
Course unit cont	ents				
Theoretical classes					
Biomass energy – classification, technical description, conversion technologies. Small hydro power – principles, potential, water turbine types and selection. Solar energy – potential, components of solar radiation, estimation of solar radiation. Solar thermal heat utilization. Photovoltaic power generation. Institutional, environmental and economic aspects of renewable energy sources utilization.					
Practical classes					
Preparation, production and defense of the project that is result of the group work of a student.					
Literature Twidell, J. and W 25330–0 (pbk.), 7	eir, A.D., Renewa Faylor & Francis, 2	ble Energy Resources, ISE 2006	3N 0–419–25320–3 (hardb	ack) — ISBN 0-419-	
Number of active	e teaching hours			Other classes	
Lectures:	Practice:	Other forms of classes:	Independent work:		
2	0	0	2	1	
Teaching method	15		-	-	
The teaching methods based on individu	nod is in the form of all or group work of	of classroom instruction cor f a student.	nplemented with discussion	on. Research work is	
Examination methods (maximum 100 points)					
Exam prerequisites		No. of points:	Final exam	No. of points:	
Student's activity during lectures		10	oral examination	30	
practical classes/tests		30	written examination		
Seminars/homework					
Project		30			
Other					
Grading system					

or waring system				
Grade	No. of points	Description		
10	> 95	Excellent		
9	85-94	Exceptionally good		
8	75-84	Very good		
7	65-74	Good		
6	55-64	Passing		
5	< 55	Failing		