



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering		
Study Module (if applicable)	-		
Course Title	Renewable Energy Sources		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Branislav V. Stojanović, Jelena N. Janevski, Dragica R. Milenković		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input type="checkbox"/> Laboratory work	<input checked="" type="checkbox"/> Project work	<input checked="" type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Introduction to renewable energy sources (solar, geothermal, biomass, wind and hydro) and plants for their transformation into heat and electricity; working fluids; heat cycles and processes; accumulation of energy; coefficient of efficiency; equipment; impact on the environment.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) The role of renewable energy sources, 2) Solar energy, 3) Geothermal energy, 4) Energy Biomass, 5) Energy Ocean, 6) Wind energy, 7) Energy Water

Language of Instruction

Serbian (complete course) English (complete course) Other _____ (complete course)

Serbian with English mentoring Serbian with other mentoring _____

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	5	Written Examination	50
Practical Teaching	15	Oral Examination	Max. 35 (depending on Teaching Colloquia)

Teaching Colloquia	35	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			