

Study program: Industrial engineering – Mechanical engineering			
Course title: Recycling and Recycling Technologies			
Professor/assistant: Đorđević Milosav, Ivković Milka			
Type of course: elective			
ECTS credits: 6			
Prerequisites: none			
Aims of the course: Students gain knowledge about waste management. They acquire knowledge about methods for separating and processing waste for reuse in the production processes and product exploitation.			
Learning outcomes: The student is trained to select and apply the most suitable processes and methods for recycling materials and waste management.			
Syllabus: <i>Theoretical part:</i> Basic concepts and definitions; Product life cycle; Waste – types of waste and the principles of waste management; Industrial and commercial waste; Methods of treating communal waste; Composting methods; Incineration; Landfill; Methods for separating and processing construction waste; Packaging waste; Metal recycling; Plastic recycling; Rubber recycling; Paper recycling; Glass recycling; Recycling electric and electronic waste. <i>Practical part:</i> Practical exercises, preparation of term papers, exercises in recycling centers.			
Literature: 1. Đorđević M, Reciklaža materijala, Visoka tehnička škola strukovnih studija, nastavna publikacija - skripta; Kragujevac, 2015. 2. Hodolič, J, Vukelić, Đ., Hadžistević, M., Budak, I., Badida, M., Šooš, LJ., Koces B., Bosak, M.: Reciklaža i reciklažne tehnologije, Fakultet tehničkih nauka, Novi Sad 2011. 3. Ćosić I, Lazarević M., Tehnologije demontaže, Fakultet tehničkih nauka, No vi Sad 2011. 4. Marina R. Ilić, Saša R. Miletić: Osnovi upravljanja otpadom , Institut za ispitivanje materijal, Beograd, 1998. 5. Weinberg A. S., Pellow D. N. ,Schnaiberg A. „Urban Recycling and the Search for Sustainable Community Development“ Princeton Univer sity Press. Princeton, 2000.			
Total number of active classes: 75		Lectures: 45	Practical classes: 30
Teaching methods: Lectures: interactive approach; Exercises: solving tasks, preparation of term papers, discussion on solving specific problems, consultations.			
Grading system (maximum 100 points) grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51- 60 points, grade 7 from 61-70 points, grade 8 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 lectures	max 5	Oral exam	50
Practical training	max 5		
Written test(s)	max 20		
Term papers	max 20		
Minimum requirement for the final exam	30		