

Study program: Industrial Engineering			
Course title: Technical Systems			
Professor/assistant: PhD Boban Cvetanović			
Type of course: compulsory/elective			
ECTS credits: 5			
Pre-requisites: -			
Aims of the course: Preparing a student to: - acquire the notions of the structure of contemporary technical systems, basic subsystems and their interactions - acquire the basic principles and elements of technical systems and technological procedures, - adopt basic approaches in designing technical systems.			
Learning outcomes: The student is able to: - apply the acquired knowledge within technological, production and business systems, - design technical systems, - manage the production and technological resources.			
Syllabus <i>Theoretical part</i> Introduction to technical systems. Structure of production process in the company. Technological development and technology management. The basics of production technologies. Processing systems and processes. Strategic significance of technology. Transfer technology. Managing innovations. Computer integrated production. <i>Practical part</i> In practical classes that accompany lectures, the material is elaborated using practical examples. Seminar work and visits to firms provide excellent preparation for the final exam on which the student shows the knowledge he/she acquired and the skills he/she developed.			
Literature 1. Regodić, D., <i>Tehnički sistemi</i> , Univerzitet Singidunum, Beograd, 2011. 2. Ž. Adamović i os., <i>Projektovanje tehničkih sistema</i> , TEHDIS, Smederevo, 2007. 3. D. Bodrožić, <i>Tehnološki sistemi</i> , Univerzitet u Beogradu, 1976.			
Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 2	Research work:	
Teaching methods Combined, interactive with solving of practical examples.			
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 theoretical lectures	5	written exam	30
practical training	20	oral exam	
colloquium(s)/seminar papers	45		
Sum	70	Sum	30