

Study program / course: Mechanical Engineering				
Type and level of study: Master academic studies				
Course: Design of production processes				
Lecturers: Eric D. Milan, Ph.D. assistant professor				
Status of course: Elective for module M₁, III semestar				
Number of ECTS: 6				
Precondition: none				
The objective of course Acquiring the basic knowledge on necessary elements and assumptions for dimensioning of capacity, space, design of production processes and dislocation of space and equipment.				
The outcome of course Student will be able both for independent work and for team development and improvement of the existing and design of new capacities of production processes.				
Syllabus The following subjects will be learned within the course "Design of production processes": introduction. Investments and investment project report, technical preparation of production, production processes as parts of production and engineering processes, necessary elements for design of production process, scheme of production and production processes, general principles of dimensioning of capacity and space of the production processes, dislocation of space and equipment, layout plan, design of production processes with application of concept of type and group technologies, computer aides design of production processes, model of reengineering of production process, concept of virtual production application.				
Practical studies: Independent work of students is achieved through project task. Project tasks as well as necessary instructions are connected to design of individual technological and/or production processes. Through laboratory-demonstrative exercises, the students will learn about the programs for simulation of production. Within the study research work, the students quality for basic research in the field of the course.				
Recommended reading 1. Mitrovic, R., "Design of production processes", "Naucna knjiga", Belgrade, 1991 2. Todic, B., "Design of production processes", "Faculty of organizational sciences publishing", Novi Sad, 2004				
The number of hours of active teaching:				Other classes: 1
Theory: 3	Practical classes: 1.4	Other forms of teaching:0.6	Research study: 0	
Methods of teaching <i>1. Work in small groups, 2. Individual work, 3. Ex cathedra, 4. Work Shops</i>				
Evaluation of knowledge				
Pre-final exam obligations	points	Final exam		points
Activities during the classes:	10	written		25
Practical classes:	/	verbal		5
Colloquiums(s) :	45			
Seminar(s) :	15			