

Study program: Industrial Engineering			
Course title: Maintenance of Mechanical Systems			
Professor/assistant: Ph D Tomislav, R, Marinković/ Petar Đekić			
Type of course: compulsory			
ECTS credits: 5			
Pre-requisites: -			
Aims of the course: Acquisition of basic knowledge in the following areas: characteristics of mechanical systems, the efficiency of production equipment, methods of maintenance of mechanical systems, diagnostics of mechanical systems maintenance, spare parts management, information systems in the maintenance of mechanical systems.			
Learning outcomes: Student should be able to: define the main features of mechanical systems, analyze parameters affecting efficiency of mechanical systems, distinguish and define the parameters for diagnostic maintenance of mechanical systems, know different maintenance methods and their characteristics.			
Syllabus			
<i>Theoretical part</i> Types of mechanical systems, characteristics, efficiency of production equipment, methods of maintenance of mechanical systems, diagnostics of mechanical systems maintenance, spare parts management, information systems in the maintenance of mechanical systems, maintenance of quality and performance evaluation, the future maintenance of mechanical systems.			
<i>Practical part :</i> Independent development of programs related to the maintenance of mechanical systems. Analysis of the experience in service of maintaining workplaces.			
Literature 1. Prof. dr Branislav Jeremić, Osnovi održavanja , Mašinski fakultet u Kragujevcu, 2008. 2. Živoslav Adamović, Tehnologija održavanja, Univerzitet u Novom Sadu , Tehnički fakultet “Mihajlo Pupin” u Zrenjaninu 1998.			
Number of active classes			Other forms of teaching:
Lectures: 3	Practical classes: 2	Research work:	
Teaching methods Combined, interactive approach with practical problem solving.			
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	5	oral exam	
colloquium(s)/seminar papers	40+10		
Sum	70	Sum	30