

Study program / course: Mechanical Engineering				
Type and level of study: academic studies (master degree)				
Course: Design of information systems and databases				
Lecturers: Stefanović Z. Miladin, Erić D. Milan				
Status of course: Obligatory for modules M ₆ and M ₇ , I semester				
Number of ECTS: 6				
Precondition: none				
The objective of course Presentation of computer systems, with a focus on computer hardware, software and computer networks, Detailed clarify purpose of computer and information systems in business offer modern techniques of learning, eLearning, www. Presentation of IS, IS design and DMBS, with a strong emphasis on the Internet, www and E-Commerce environments.				
The outcome of course Ensure that students acquire basic knowledge about design of IS and databases. Students will adopt modern concepts such as e-business over the Internet, and to understand role of information systems in modern business and society.				
Syllabus Theoretical study In the framework of theoretical classes will cover the following areas: introduction to the information systems, hardware, software, networks, methods and techniques work in the phase of analysis and specifications of the system, phase design of information systems and applications programming, the basic principles database design, SQL, CASE tools, Internet and www environment, e-business concepts, modern concepts of IS applications. Practical Studies: Exercises, Other forms of teaching, research study As part of the research study, students will be trained for basic research in the field of cases.				
Recommended reading 1. Arsovski Z.. Information systems, Edition, CIM center, Faculty of Mechanical Engineering, University of Kragujevac 2. Veljović A.: The development of information systems and databases 3. Shelly, B. G, at. all: Discovering Computers, Thompson Course Technology, 2003				
The number of hours of active teaching:				Other classes:
Theory: 2	Practical classes: 1.6	Other forms of teaching: 0.4	Research study: 0	1
Methods of teaching Classic “frontal” approach combined with group and individual approach with the use of current resources. Evaluation of knowledge will be performed through colloquiums and seminars papers.				
Evaluation of knowledge (the maximum number of points 100)				
Pre-final exam obligations	points	Final exam	points	
Activities during the classes:	10			
Practical classes:	20	Oral exam:	30	
Colloquiums(s) :	20			
Seminar(s) :	20			