Study program : Electrical Engineering, Mechanical Engineering, Module Industrial Engineering

Type and level of studies: MSC

Course unit: Design of information systems and databases

Teacher in charge : Milan Eric, Miladin Stefanovic

Language of instruction: English

ECTS: 6

Prerequisites: no

Semester: *Winter semester*

Course unit objective: 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 Ecommerce environments.

Learning outcomes of Course unit

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.

Course unit contents

Theoretical classes

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 classes

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.

Literature

[1] Rob, P., Coronel, C., & Crockett, K. (2008). Database systems: design, implementation & management. Cengage Learning EMEA.

[2] Shelly, B. G, at. all: Discovering Computers, Tompson Course Technology, 2003.

Number of active teaching hours				**Other classes 1**
Lectures: 2	Practice: 1,6	Other forms of classes:0,4	Independent work:0	

Teaching methods

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.

Examination methods (maximum 100 points)

Exam prerequisites	**No. of points:**	**Final exam**	**No. of points:**
Student’s activity during lectures	**10**	oral examination	**30**
practical classes/tests	**20**	written examination	
Seminars/homework	**20**	.....	
Project	**20**		
Other			

Grading system

Grade	**No. of points**	**Description**
10	**91-100**	Excellent
9	**81-90**	Exceptionally good
8	**71-80**	Very good
7	**61-70**	Good
6	**51-60**	Passing
5	**≤50**	Failing