Study programme(s): Mathematics M3, M4

Level: Bachelor

Course title: Business informatics (M12)

Lecturer: Đorđe D. Herceg

Status: elective

ECTS: 7

Requirements: none

Learning objectives

Acquiring basic skills and knowledge necessary for understanding and application of IT in business.

Learning outcomes

Minimal: To understand the principles on which computers, computer networks and information systems operate. The role of information systems in modern business. The use of finance, resource and project management software.

Desired: Basics of database design, implementation and use. Configuring and using network services. Using web applications. Implementation of secure network communications. Knowledge of Customer Relationship Management systems and team collaboration systems.

Syllabus

Theory

Database basics. Database design and implementation. Data-entry forms. Queries. Reports. HTML and XML. Web applications and Web services. Consuming Web services. Computer networks and network protocols. Servers and services. Network traffic filtering. Authentication and authorization. Network resource access. Electronic communication and collaboration. Backup, redundancy and disaster recovery. Project and resource management. Customer relationship management and business processes.

Exercises

Computer lab exercises follow the lectures.

Textbooks and resources

1. Đ. Herceg, Osnovi informacionih sistema, Symbol, Novi Sad, 2011.
2. D. Spackman, M. Speaker, Enterprise Integration Solutions, Microsoft Press, 2005.
3. C. Chatfield, T. Johnson, Microsoft Project korak po korak, CET, Beograd, 2003.
4. E. A. Hall, Internet Core Protocols, O'Reilly, 2003.
5. Grupa autora, Microsoft Access korak po korak, CET, Beograd, 2003.
6. M. Morrison, Brže, bolje: HTML & XML, CET, Beograd, 2003.
7. V. Marković, Informatičko sazrevanje kompanije u dinamičkom poslovnom okruženju, Želnid, Beograd, 2006.
8. A. Skonnard, M. Gudgin, Essential XMl, Addison-Wesley, Boston, 2003.

Weekly teaching load				Other: 0
Lectures: 2	Exercises: 4	Other forms of teaching: 0	Student research: 0	

Teaching methodology

Lectures supported by examples on the computer. Exercises, written and practical tests in a computer lab. Final exam is comprehensive and based on theoretical lectures.

Grading (maximum number of points 100)

Pre-exam obligations	**points**	**Final exam**	**points**
Colloquia	50	Oral exam	50