

Title of the course:	Introduction to Business Informatics		
Course ID:	VE-MIT002		
Level of education:	Regular & Erasmus	Academic semester: 1	SPRING semester
Professor's name:	Dr. József Cser	Academic title: CSc	
Hours per semester:	30 hours	Credits:	6
Exam:	written	Pre-requisites:	--

The purpose of the course

The course aims to give a general introduction to the most important topics of the business informatics. The subjects form a bridge between business and informatics. The course shows the mutual interaction between the two related fields so that non-IT experts from the business field can understand how to benefit from the possibilities offered by informatics. The course has a horizontal character, i.e. it offers a variety of subjects with a broad horizon.

Competencies to develop

Participants will have a basic understanding of everyday issues of informatics, such as information systems, information system development, programming, enterprise resource planning, databases, computer networks, internet, e-business and information security. The most important point is the understanding of the participation of informatics in business and the possible synergy of both.

Structure of course

1. Introduction. Basic concepts. System concepts. System, subsystem, components. Optimum, hierarchy, goals, Input-output, feedback.
2. Computer architectures. Historical development. Von Neumann model. Hardware and software. Number representation.
3. Operating systems. Concepts of programming. Programming languages. From binary code to 5th generation languages.
4. Information systems. History and development of information systems. Typical applications.
5. Office systems. MS Office. Libre Office. Google.
6. Fields of computer applications. Application software. Application systems. Types and levels. Management information systems. Knowledge based systems.
7. Enterprise resource planning. Decision support systems.
8. System development, methodologies, milestones. From the problem description to problem solution.
9. Data modelling. Database systems. Relational databases.
10. Computer networks. Data communication.
11. World Wide Web. Internet, e-mail. Web 2.
12. E-paradigma. E-business, e-commerce, e-enterprise, e-administration, e-government.
13. Information security.
14. Summary.

Educational methods

Lectures.

Evaluation of tests

- Pass: 60,00 - 75,99 %
- Good: 76,00 - 90,99 %
- Excellent: 91,00 - 100 %

Required reading:

It will be submitted during the lectures.

Suggested reading:

It will be submitted during the lectures.