

Module for Business informatics

ECTS range: 16

Courses: 1) Database management; 2) E-commerce and retail; 3) Computer based problem solving with excel

(3) Course: Computer-based Problem Solving with Excel	ECTS: 6
Elective	
Ratio of theory – practice, %: 67% practice	
Type of lesson: lecture / seminar: 15 + 30 per week Language of instruction: English Specific techniques or methods in teaching (if any e.g. specific software): MS Excel	
Type of examination and course mark: practical mark Further methods of examination or mid/end term testing (e.g. project works): mid term test and project work	
Semester: 6	
Preconditions of the course: -	

Description of course content:

Objectives: The goal of this subject is to introduce to the students the extended features of Excel which are suitable to solve many assignments.

Brief content: Data analysis, Solver, and VBA is useful for learning about decision preparation and analysis.

Compulsory and recommended literatures (2-5 pieces) with full bibliography*Compulsory literature:*

Handouts and excel problems uploaded in Neptun

Cliff T. Ragsdale (2018): Spreadsheet Modeling & Decision Analysis: A Practical Introduction to Business Analytics 8th Edition, ISBN-10: 130594741X South-Western College Pub.

Michael Alexander, Richard Kusleika (2016): Excel 2016 Power Programming with VBA ISBN-10: 1119067723 Wiley

Recommended literature:

Pétery, Kristóf: Excel 2016 – Biblia (English) e-book, 2097 p./75 MB, ISBN: 978-963-365-492-7, download in pdf: <https://akonyv.hu/termek/excel-2016-biblia-angol/>

Wayne L. Winston: Microsoft Excel 2016 Data Analysis and Business Modeling, Fifth Edition. Microsoft Press, ISBN 9781509304219

Elements of Student Requirement System (KKK) that the course contributes to:**a) knowledge**

- Students are in possession of information collection, basic mathematical and statistical methods of analysis.
- They are familiar with the use of information technology and office equipment in connection with the operation of the support processes of management organizations.

b) skills

- They can apply techniques for resolving the economic problems, the problem-solving techniques with regard to the conditions and limits of application.
- Using the studied theories and methods of basic facts and context, they can organize, analyse, and separate conclusions, critical observations, decision support recommendations, and decisions.
- Based on the ability to acquire practical knowledge and experience they can manage with small and medium-sized businesses or units of an enterprise organization.

c) attitude

- Receptive to the new information, new professional knowledge, technical expertise, and open to assume new assignments, responsibilities requiring independence and cooperation. They seek to develop their knowledge and working relationships, and cooperate with colleagues to achieve that.
- Open to the changes of the broader economic, social environment of the given job, work organisation, enterprise and makes efforts to follow and understand changes

d) autonomy

- Beside general professional supervision, organizes the assignments specified in the job description.
- Takes responsibility for analyses, conclusions and decisions.
- Able to independently lead, organize, control a unit in the organization of an enterprise, a team or a company, or small business organization.
- Organizes, leads and controls business activity in a business organisation in an economic job, according to his or her qualifications.

Course leader: dr. Róbert Barna, PhD associate professor