

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Information System for Decision-making Support				
Study programme	Specialist professional graduate study of Information Technology in Business Systems				
Status of a course	Elective				
Year of study	2	Semester (Winter/Summer)	W	ECTS credits	6
Goals of a course					
Adopt basic terminology and apply business performance management methods through working in selected software tools.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 9: Develop a model and run a simulation in business systems. Outcome 15: Analyse and recommend the use of IT tools within a business organization. Outcome 16: Assess the place and role of ICT in the context of organization, management and business processes.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Explain the need for a systematic mindset in business operations and the establishment of a business intelligence system 2. Explain the importance of managing business performance and give examples of key performance indicators. 3. Characterize the big data era and list the problems and business needs specific to that era. 4. Create data mining models using machine learning algorithms 5. Develop a business plan with sensitivity analysis 6. Create multi-dimensional interactive business reports 					
Content of a course					
Importance of decision-making. Information systems for management support. Systems for decision support. Modelling as a process of decomposition and problem formalization. Historical outline. Types of systems and classification. System development, special characteristics. Utility measurement. Methods of decision-making. Psychological-sociological problems. Data warehouses. Development methodology of data warehouses. Data mining. Expert systems. Knowledge bases. Modern development.					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
Grading, evaluation and monitoring of students' work continuously during lectures and exams					
Grading is based upon evaluation course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.					