

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Information Systems Development Tools				
Study programme	Specialist professional graduate study of Information Technology in Business Systems				
Status of a course	Obligatory				
Year of study	1	Semester (Winter/Summer)	W	ECTS credits	6
Goals of a course					
Acquisition of competencies for information system planning, analysis and design. Acquiring knowledge and competences in the field of application of CASE and RAD tools. Acquire web application development competencies using RAD tools.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Apply information and communication systems design methods. Outcome 2: Apply the CASE tool in the development of business information systems. Outcome 3: Apply software engineering principles in the development of information systems. Outcome 4: Apply quality standards to the process of the development of business information systems. Outcome 5: Apply the standards and methods of controlling and auditing the business information system. Outcome 6: Apply appropriate tools in the implementation of information and communication systems. Outcome 7: Apply methods and techniques for creating and managing databases. Outcome 8: Apply methods and techniques for managing security and data protection in information and communication systems. Outcome 17: Present development and software solutions within a business organization.					
Expected learning outcomes on a level of a course					
1. Plan an information system development, construct a process model, data model, user interface model and propose software architecture. 2. Distinguish the capabilities of CASE and RAD tools, and highlight a suitable RAD software development tool. 3. Use the RAD tool to build web applications when developing new software. 4. Demonstrate the capabilities of RAD tools for web applications development, and demonstrate the capabilities of the created application.					
Content of a course					
About information system in general. Access to information system development. Development phases of information system. Engineering approach to information system development. Information technology in the development of IS. Definition of CASE tools. Structure of CASE tools. Classification of CASE tools. Overview of the most common CASE tools. Criterion of comparison. CASE tools quality evaluation. Information system analysis and design through the application of CASE tools.					
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.					