

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Systems for Managing Manufacturing Processes				
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	4
Goals of a course					
Acquisition of specific competences in the field of planning of production process management systems and application of new technologies in modern production systems and services. Within general competences develop the ability to analyze and synthesize, work independently and work in small groups (team work) and present the achieved results.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 6: Apply appropriate tools in the implementation of information and communication systems. Outcome 10: Explain the basic concepts of computer-controlled complex, process and production systems. Outcome 15: Analyse and recommend the use of IT tools within a business organization. Outcome 17: Present development and software solutions within a business organization. Outcome 18: Present ICT solutions in a business organization.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Analyse different types of production, production systems layouts and their balancing. 2. Plan a production system and production projects using a structural matrix and network diagrams. 3. Explain the hierarchy of complex production systems and SCADA systems, as well as computer integrated production. 4. Apply new technologies in modern production systems and services. 5. Select the appropriate automation and communication system in the production process. 					
Content of a course					
Classification of manufacturing processes. Terms such as process and business systems. Hierarchical structuring of levels of management and business functions in relation to current normative recommendations. A model of hierarchical structure of organizational units and equipment of manufacturing and business processes. A basic definition of process at certain functional levels. Information technologies as support for process management. Basic settings of a model of objectively based components. SCADA systems. Systems of advanced management.					
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.					