

Specification for the book of courses

Study program		Computing and Informatics		
Module		Information Systems and Technologies		
Type and level of studies		Master studies		
The name of the course		Advanced Learning Technologies		
Lecturer (for lectures)		Milentijević Z. Ivan, Ćirić M. Vladimir		
Lecturer/associate (for exercises)		Vojinović M. Oliver		
Lecturer/associate (for OFE)				
Number of ECTS	4	Course status (obligatory/elective)	Elective	
Prerequisites				
Course objectives				
To enable students to acquire knowledge about advanced approaches to learning and education, learn how to apply information technologies in order to enhance learning, and learn pedagogical and cognitive effects of applied technology.				
Course outcomes				
After successfully passing the course the student will be able to analyze the specific educational objectives and environment, and to design technology environment to support learning.				
Course outline				
Theoretical teaching				
Learning paradigms; instructivist and constructivist approach. Instructional design and use of technology resources in instructional design. Formal and non-formal learning environments – games, e-learning, computer supported collaborative learning, problem-based and project-based learning, learning through social interaction. Computerized testing – standardized, adaptive and informal testing. Standard formats for presentation of learning material.				
Practical teaching (exercises, OFE, study and research)				
Analysis of learning approaches, analysis of educational objectives, setting of educational environment and mapping to appropriate technology. Design and development of software resources to support learning.				
Textbooks/references				
1	M. Hannafin, M. Land, The foundations and assumptions of technology-enhanced student-centered learning environments, Springer, 2004.			
2	M. S. Khine, I. M. Saleh, New Science of Learning: Cognition, Computers and Collaboration in Education, Springer, 2010.			
3	The Future of Ubiquitous Learning, Kinshuk B.G., Maina M. (Eds.), Springer, 2016.			
4	Collection of selected academic papers			
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	1	0		
Teaching methods				
Lectures, consultations, homeworks, student projects, student seminars (presentation of student projects, group discussion).				
Grade (maximum number of points 100)				
Pre-exam duties		Points	Final exam	Points
Activity during lectures		10	Written exam	
Exercises		10	Oral exam	40
Colloquia				
Projects		40		