

NAME OF THE COURSE		Research Work in Informatics Education				
Code	PMIK65	Year of study	GU-2			
Course teacher	izv. prof.dr. sc. Ivica Boljat	Credits (ECTS)	2,5			
Associate teachers	Monika Mladenović Marin Aglič Čuvić mag. educ. inf. pred. Divna Krpan	Type of instruction (number of hours)	L	S	E	F
			15		15	
Status of the course		Percentage of application of e-learning				
COURSE DESCRIPTION						
Course objectives	Explore literature for selected areas of IT education research (eg teaching methods, visualization systems, educational technology, etc.), write a literature review for the selected area, and create a research plan.					
Course enrolment requirements and entry competences required for the course	Completed Method of teaching computer science II					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>After passing the course, students will be able to:</p> <ul style="list-style-type: none"> <li>- Discuss areas of information education and open research issues</li> <li>- Describe the steps in carrying out the literature review</li> <li>- Recognize scientific papers that are relevant to the implementation of their own research work</li> <li>- Identify research questions, applied methodology and research findings</li> <li>- Create an overview of the area</li> <li>- Develop a plan for carrying out its own research</li> <li>- Discuss the decisions made in the design of the research plan</li> </ul>					
Course content broken down in detail by weekly class schedule (syllabus)	<ol style="list-style-type: none"> <li>1. Getting acquainted with the areas of research in informatics education (2 + 0)</li> <li>2. Research Planning Phases (2 + 0)</li> <li>3. Examples and analysis of existing research in education from selected IT fields (7 + 0)</li> <li>4. How to write literature review (2 + 0)</li> <li>5. Analysis of Existing Literary Examinations (2 + 0)</li> <li>6. Presentations of student seminars and research plans (0 + 15)</li> </ol>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work	<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> homework assignments				
Student responsibilities	Attending lectures. Creating seminar work. Design (and conduct) research					

Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Name	Ects	Name	Ects	Name	Ects
	Class attendance	0,7	Research		Experimental work	
	Oral exam		Report		Homework assignments	
	Seminar essay	1,8	Essay			
	Tests		Practical training			
	Written exam		Project			
Grading and evaluating student work in class and at the final exam	Research plan (30%), seminar work and presentation (70%).					
Required literature (available in the library and via other media)	<b>Title</b>			<b>Number of copies in the library</b>	<b>Availability via other media</b>	
	Sally Fincher, Marian Petre: Computer Science Education Research, 2004.			1		
	Orit Hazzan, Tami Lapidot, Noa Ragonis: Guide to Teaching Computer Science: An Activity-Based Approach			1	da	
Optional literature (at the time of submission of study programme proposal)	Journals. Computers & Education, ACM Transactions on Computing Education The Computer Science Education Conferences: SIGCSE (Special Interest Group on Computer Science Education) ITiCSE (Innovation and Technology in Computer Science) ISSEP (Informatics in Secondary Schools: Evolution and Perspective)					
Quality assurance methods that ensure the acquisition of exit competences	Conversation with students, student evaluation using anonymous poll, student success on exams, self-assessment,					
Other (as the proposer wishes to add)						