

26NAME OF THE COURSE		Planning and analysis of information systems				
Code	EUB310	Year of study	1			
Course teacher	Associate professor Marko Hell, PhD Associate professor Maja Čukušić, PhD	Credits (ECTS)	5			
Associate teachers	Tea Mijač, PhD. Associate professor Marko Hell, PhD	Type of instruction (number of hours)	L	S	E	F
			26		26	
Status of the course	Obligatory	Percentage of application of e-learning	49%			
COURSE DESCRIPTION						
Course objectives	Adopting competencies for planning the effects of IT on the business system and analysing and modelling user requirements					
Course enrolment requirements and entry competences required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>Course learning outcome: Plan the positive effects of IT on the business system</p> <ol style="list-style-type: none"> <li>1. Assess the effects of IT in the context of the business system</li> <li>2. Connect the effects of IT with business goals</li> <li>3. Analyze user requirements</li> <li>4. Model business technology</li> </ol>					
Course content broken down in detail by weekly class schedule (syllabus)	Lectures		Exercises			
	Theme		Theme			
	Genetic taxonomy of IS	2	Definition of a case study framework.	2		
	Importance of IS for the business system.	2	Task. SPIS. Determining SWOT element.	2		
	Strategic planning of the effects of IT technology	2	Task. Determining activities and measures.	2		
	Overview of Methods and Techniques for Strategic Planning of Information Systems	2	Task. SPIS. Structuring the IS strategy.	2		
	Measurement of the effects of an IS / IT strategy on business goals.	2	Task. SPIS. Determining the required resources	2		
	Formalization of operational use of mathematical models. Manage using the model	2	Task. SPIS. Optimization of IS strategy	2		
	Approaches the development of a new information system	2	Task. UML activity diagram	2		

	Agile methods and bases of object orientation	2	Task. UML Use case diagram.	2		
	Gathering requirements	2	Task. UML. Class diagrams.	2		
	UML	2	Task. BPMN Diagrams	2		
	Process view and business technology	2	Task. Data Flow Diagram	2		
	BPMN maturity model	2	Task. The ER diagram	2		
	Modeling data. ERA, Object model data and Relation model data	2	Final conclusions	2		
Format of instruction	x lectures <input type="checkbox"/> seminars and workshops x exercises <input type="checkbox"/> <i>on line</i> in entirety x partial e-learning <input type="checkbox"/> field work		x independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor x participating in discussion via forum x self-evaluation tests			
Student responsibilities						
Screening student work ( <i>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</i> )	Class attendance	1,7 ECTS	Research	1,3 ECTS	Practical training	
	Experimental work		Report		Discussion (Other)	1 ECTS
	Essay		Seminar essay		(Other)	
	Tests		Oral exam	1 ECTS	(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	The course mode can be described as a continuous student follow-up method. Student accumulates points during the semester through different types of teaching activities. Minimum of 41% of points for each learning outcome and successfully solved self-evaluation tests are prerequisites for taking the oral, as well as participating in at least 50% of all class meetings (25% for the part-time students). The oral exam verifies the authentication of student work done remotely as well as provides opportunity to gain a higher grade. Grades are earned according to the following: more than a total of 51% of grade points sufficient; more than a total of 61% of points score good; more than a total of 75% of points score very good; more than 90% of the points score excellent trough					
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>	
	Learning materials on Moodle system				Moodle.efst.hr	

Optional literature (at the time of submission of study programme proposal)	<ul style="list-style-type: none"> <li>• <u>Laudon, Kenneth C., Laudon, Jane P.: Management information systems: managing the digital firm, Sixteenth edition, New York, NY: Pearson, 2020.</u></li> <li>• <u>Lidija Petrić, Marko Hell, Jan van der Borg (2020), Process orientation of the world heritage city management system, Journal of Cultural Heritage, 46, pp 259-267,</u></li> <li>• Maciaszek, L. A. : Requirements Analysis and System Design, Addison Wesley, NY, 2001.</li> <li>• Brumec J., Brumec S.: Modeliranje poslovnih procesa, Zagreb, 2016</li> <li>• Ward, J., Griffiths, P. : Strategic Planning for Information Systems, Wiley, NY, 1998</li> </ul>		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> <li>• Monitoring attendance and performance of other student obligations (teacher)</li> <li>• Supervision of teaching</li> <li>• Analysis of the success of studies in all subject studies</li> <li>• Student Survey on the Quality of Teachers and Teaching for Each Subject Study (UNIST, Center for Quality Improvement)</li> <li>• The oral exam conducted by the course teacher verifies the authentication of student work done remotely as well as examines all the learning outcomes of the subject.</li> </ul>		
Other (as the proposer wishes to add)			