NAME OF THE COU	RSE	Decision support	systems						
Code	EUB40	2	Year of s	tudy		2			
Course teacher	Hell, Pl Associa	ate professor Marko nD ate professor a Garbin Praničević,	Credits (ECTS)			5			
Associate teachers	Hell, Pl Associa Daniela PhD	ate professor a Garbin Praničević,	Type of instruction (number of hours)			L 26	S	E 26	F
Status of the course	Obliga	tory	Percentage of application of e-learning			40%			
	-	COURSE	DESCR	ΡΤΙΟ	Ν	-			
Course objectives	-	ng competencies and n-making process	d skills to e	evalua	ate the imp	ortance	and use	of IT in	the
Course enrolment requirements and entry competences required for the course									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Assess the importance of a decision support system in the context of the business system 1. Identify the role of information system in business decision making 2. Perform business analysis based on historical data 3. Critically evaluate business simulation scenarios Review of the importance of the Task 1: Creating BPMN Business								
Course content	organi	t. Information flows in zational systems. Gene ion of the Information	etic	2		Process Models (Private Processes) according to guidelines.			2
broken down in detail by weekly class schedule (syllabus)	Discus comm of IS fo systen Stakeh	ance ing.	2	Model (Pu according	MN Business Process iblic Diagram), to guidelines.				
	comm and bu contex Funda model proces		s view he t of ing	2	analyze pro business sy	process from chosen s system.			2
	comm of bus	sion based on student ents on forum. Formal iness technology, sequ m, BPMN maturity mo	ization ² process mo ence business sy			odelling of chosen			2
	sion based on student ents on forum. Busine aation systems. Function aation Subsystems	ts' 2 Task 5: Ex functions			according to in multimedia			2	

	Discussion based on students' comments on forum. Information system models, decision-making and information systems.				2 Task 6: Excel: Advanced 2 numerical data work according to examples in multimedia materials.			
	Discussion based on students' comments on forum. The basics of business intelligence. Application of business intelligence. Discussion based on students' comments on forum. Role of business intelligence in business. BI technology and tools.				Task 7: Ex work and output do examples multimec		2	
					Task 8: Excel – using functions for creating interactive sales document according to examples provided in multimedia materials.			2
	Discussion based on students' comments on forum. Multi- dimensional data structure and the data mining Discussion based on students' comments on forum. Basic features of mining tools. From data to information, OLAP system functionality Discussion based on students' comments on forum. Modeling the dynamics of business systems; System approach				Task 9: Excel – using functions for data and Pivot tables, according to examples provided in multimedia materials.2			
					Task 10: Excel – Using functions to work with text and logical functions according to examples in multimedia format.2			
					simulatio according	Task 11: Developing simple simulation model in Powersim, according to examples provided in multimedia format.2		
	Discussion based on students' comments on forum. System Dynamics Methodology, Behavior patterns of business systems.			2	Task 12: Developing the model with time series.2			
	Discussion based on students' comments on forum. Final conclusions				Excel and	Connecting model with d work with nensional variables.		
Format of instruction	x lectures seminars and workshops x exercises n <i>ine</i> in entirety x partial e-learning field work			 x independent assignments x multimedia laboratory work with mentor x participating in forum discussions x self-evaluation tests 				
Student responsibilities								
Screening student work (name the proportion of ECTS	Class attendance Experimental work	dance ECTS		1,	3 ECTS	Practical training Discussion 1 E		3
credits for each activity so that the	Essay		Seminar essay			(Other)		
total number of ECTS credits is	Tests		Oral exam	1	ECTS	(Other)		

equal to the ECTS value of the course)	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 65% of points score good; more than a total of 80% of points score very good; more than 95% of the points score excellent trough							
Required literature		٦	Number of copies in the library	Availability via other media				
	Learning Mater	ials on Mo		Moodle.efst.hr				
(available in the library and via other								
media)								
Optional literature (at the time of submission of study programme proposal)	Thomsen, E. : OLAP Solutions – Building Multidimenzional Infromation Systems, Wiley, New York, 2002. Brumec J., Brumec S.: Modeliranje poslovnih procesa, Zagreb, 2016 Peter Ekman, Peter Dahlin i Christina Keller (2022): Management and Information Technology after Digital Transformation, Routledge							
Quality assurance methods that ensure the acquisition of exit competences	 Monitoring attendance and performance of other student obligations (teacher) Supervision of teaching Analysis of the success of studies in all subject studies Student Survey on the Quality of Teachers and Teaching for Each Subject Study (UNIST, Center for Quality Improvement) The exam conducted by the course teacher examines all the learning outcomes of the subject. Periodic examination of the content of the exam is carried out on the basis of which the appropriateness of the method of checking the learning outcomes 							
Other (as the proposer wishes to add)								