NAME OF THE COURSE	Informatics					
Code	PMIA50	Year of study				
Course teacher	pred. Divna Krpan izv. prof.dr. sc. Ivica Boljat	Credits (ECTS)	3,0			
Associate teachers		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	Understand, acquire and learn basic skills in using office applications, data modelling understand, acquire and learn basic concepts in modern information and communication technology Students are introduced to the basic hardware and software operations, they learn how to use office packages, including spreadsheets, basic Internet services, statistics and relational database model.
Course enrolment requirements and entry competences required for the course	None.
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	1. Discuss basic computer operations, database concepts, Internet services, data analysis and processing 2. Use text processing application, spreadsheets and database management system for problem solving 3. Create relational database model 4. Select data set and methods for statistical analysis 5. Create program in visual programming language
Course content broken down in detail by weekly class schedule (syllabus)	1. Course introduction. Basic computer system operations. Computer systems history and types (2+0) 2. Software and hardware system. Information and communication technology. Internet services and web browsers (e-mail, WWW, ftp) (1+1) 3. Operating systems. Operating system with graphical user interface (eg. MS Windows). Office suits of products overview (eg. MS Office) (2+0) 4. Text processing and document editing (0+2) 5. Creating and using spreadsheets. Mail merge. (0+4) 6. Midterm exam (0+1) 7. Introduction to databases. Designing database model. (4+0) 8. Create database in MS Access and simple queries (1+2) 9. Designing simulations (2+2) 10. Introduction to statistical data analysis (2+1) 11. Use of basic statistical data analysis methods (1+1) Final exam (0+1)
Format of instruction	☒ lectures ☐ seminars and workshops ☒ exercises ☐ on line in entirety ☐ partial e-learning ☐ field work ☒ independent assignments ☐ multimedia ☐ laboratory ☐ work with mentor ☐ homework assignments
Student responsibilities	Attendance active participation

	practical exam oral exam					
	Name	Ects	Name	Ects	Name	Ects
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)*	Class attendance	0,5	Research		Experimental work	
	Oral exam	1	Report		Homework assignments	
	Seminar essay		Essay			
	Tests		Practical training	0,5		
	Written exam	0,5	Project	0,5		

Grading and evaluating student work in class and at the final exam	Exams and practical assignments: 70%, oral exam 30%.

	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other media)	Teaching materials available online (course management system)	0	
	Mladen Varga: "Baze podataka - Konceptualno, logičko i fizičko modeliranje podataka", Društvo za razvoj informacijske pismenosti (DRIP), Zagreb, 1994. (in croatian)	0	

Optional literature (at the time of submission of study programme proposal)	Marji, Majed. Learn to Program with Scratch: A Visual Introduction to Programming with Games, Art, Science, and Math. No Starch Press, 2014. P. Brođanac, Informatika 1 : udžbenik za prvi razred prirodoslovno-matematičkih i općih gimnazija te drugi razred klasičnih i jezičnih gimnazija, Zagreb : Školska knjiga, 2014.. A. Lane, B. Meyer, J. Mullins: Simulation with Cellular: A Project Based Introduction to Programming, Monash University, BlockBooks, 2012.
Quality assurance methods that ensure the acquisition of exit competences	Interviews questionaires exams self evaluation
Other (as the proposer wishes to add)	