NAME OF THE COURSE	Introduction to Computing										
Code	PMIA10	Year of study									
Course teacher	prof.dr. sc. Andrina Granić izv. prof.dr. sc. Saša Mladenović	Credits (ECTS)	5,0								
Associate teachers	Ines Gracin	Type of instruction (number of hours)	L 30	S	E 30	F					
Status of the course	mandatory	Percentage of application of e-learning									
COURSE DESCRIPTION											
Course objectives	The course offers an insight to a number of other computer science courses to be thought during the study programme, addressing the computer science field as a research as well as an application field. Additionally, the course aims to introduce main mathematical fundamentals necessary for understanding basic principles of digital computer operation. The course provides acquisition of fundamental knowledge related to the history of computing, computer architecture, operating systems, database systems, computer networks, computer graphics and artificial intelligence. Labs provide achievement of basic knowledge and concepts related to numerical notation, logic circuits, text editing, spreadsheets and databases.										
Course enrolment requirements and entry competences required for the course	No formal prerequisites.										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Describe the history of computing. Define and name the main fields of computer science. Describe the fundamental terminology and concepts from computer architecture, operating systems, database systems, computer networks, architecture of Internet applications, computer graphics and artificial intelligence. Apply applications for text editing, spreadsheet programs, and database management systems for problem solving. Identify and argument limits of certain fields of computer science.										
Course content broken down in detail by weekly class schedule (syllabus)	Lectures: Algorithms; History of computing Main principles of computer technology Numerical notation and representation of data Data storage and data compression First exam Computer architecture and simulation od logic circuits Operating systems Networking and the Internet Internet protocols and security Database systems Computer graphics Artificial intelligence Second exam Exercises: Introduction Numerical notation Logic circuits										

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	Problem solving Word processor										
	Spreadsheets										
	Database Problem solving										
	1 Toblem Solving										
Format of instruction											
Ctudent reen engibilities	Active participation	in all a	ctivities:	lecture	s, lab a	ctivities,	consultation	าร;			
Student responsibilities	individual work in homework and the assigned project; exam										
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	2	Research			Experimental					
	Class attenuance					work					
						Homew	ork				
	Oral exam	0.5	Report			assignments					
			_	_							
	Seminar essay		Essay								
	Tests	1	Practical		1						
	10010	' traini		9	•						
	Written exam	0.5	Project								
		100()									
Grading and evaluating student work in class and	Class attendance (Individual project (1										
at the final exam	Final/Oral Exam (8										
	Title				Number of copies in		Availability via other media				
Required literature (available in the library and via other media)	ti					library					
	Computer Science: An Overview,										
	Brookshear, J. Glenn Brylow, Dennis,				20						
	prijevod, ISBN 9789537398514										
Optional literature (at the	all course material is available on-line, including related articles										
time of submission of study				•	J						
programme proposal) Quality assurance	student discussion,	anony	mous sti	udent ev	valuatio	on questi	onnaire stu	dent			
methods that ensure the	success rate, self-a					quoon	ao, ota	30116			
acquisition of exit competences											
Other (as the proposer											
wishes to add)											