NAME OF THE COURSE	Informatics management					
Code	PMIK70	Year of study				
Course teacher	prof.dr. sc. Marko Rosić	Credits (ECTS)	5,0			
Associate teachers		Type of instruction (number of hours)	L	S	E	F
			30		30	
Status of the course	elective	Percentage of application of e-learning				
COURSE DESCRIPTION						
Course objectives	Through the course Informatics Management students will acquire the general competencies needed to understand how the company operates. By applying fundamental theoretical, methodological and applicative knowledge in the field of management and information technology and management, the student acquires the competence of business systems management of the small and medium degree of complexity. The acquired competencies of IT management are based on skills and knowledge focused on project management and problem solving by programming. In addition to this, students will be capable of performing management and organizational affairs, will have the ability to manage both IT projects and other projects, manage and implement information business systems, planning, teamwork, organizing, communicating, managing and controlling different jobs on a variety of level in IT, and other businesses.					
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)	Understand how business works, how consumers behave in the market Explain how companies operate, how to manage their costs, how to calculate the cost and determine the performance indicators Define the necessary resources for the work of the company, give an example of calculating the depreciation of the principal assets Explain the basic application of IT technology, the role of computing and IT systems in the production and living environment Explain the importance of planning, organization, staffing, management and control in the company and the importance of their connection to the smooth operation of the company Apply basic methods for analysis and design of the information system and develop a development plan for introducing a new information system into the organization Create mission, vision, goals, SWOT analysis of the company and define the company's strategy Identify, explore and evaluate an entrepreneurial opportunity and opportunities and risks of turning entrepreneurial opportunities into an entrepreneurial venture. Prepare, organize and present a business idea, project or plan alone Create a prototype using appropriate programming language to solve minor problems and use the basic programming structure of the selected programming language					
Course content broken down in detail by weekly class schedule (syllabus)	1. Introduction, Business System and Information Technology (2h) 2. Information system and information activities (2h) 3. Ten Major IT Management Mistakes (2h) 4. Link to Programming Engineering (2h)					

	5. Development models (2h) 6. Decision Support Systems (2h) 7. System Optimization within Default Limits (2h) 8. Project Management (4h) 10. Financing (2h) 11. Planning (2h) 12. Entrepreneur and Entrepreneurship (2h) 13. Creating a Business Plan (2h) 14. Project Success Analysis (2h) 15. Presentation of the project
Format of instruction	☐ lectures ☒ independent assignments ☐ seminars and workshops ☐ multimedia ☐ exercises ☒ laboratory ☐ on line in entirety ☐ work with mentor ☐ partial e-learning ☐ homework assignments ☐ field work
Student responsibilities	Lecture and laboratory attendance, active participation in course activities, homework and project realization, final 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	1	Research		Experimental work	
	Oral exam	2	Report		Homework assignments	
	Seminar essay		Essay			
	Tests		Practical training			
	Written exam	2	Project			

Grading and evaluating student work in class and at the final exam	Attendance/Participation (20%) Midterm / Project (40%) Final/Oral Exam (40%)

Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	Introduction to Management Science Bernard W. Taylor III, Pearson Education, ISBN-10: 0132751917	0	
	Systems Analysis and Design in a Changing World, John W. Satzinger, Robert B. Jackson, Stephen D. Burd, ISBN-10: 1305117204	0	

Optional literature (at the time of submission of study programme proposal)	Kako upravljati razvojnim procesom, Steve Maguire, Microsoft press, Znak 1995.

Quality assurance methods that ensure the acquisition of exit competences	Online Student material, including solutions to selected problems and additional reading
Other (as the proposer wishes to add)	Student discussion, anonymous student evaluation questionnaire, student success rate, self-assessment.