

Subject specification for book of subjects

Study program		Computing and Informatics		
Module		Joint		
Type and level of study		Master studies		
Subject title		Study and Research Work		
Teacher (for lectures)				
Teacher/assistant (for practice)				
Teacher/assistant (for other types of t				
Number of ECTS		10	Subject status (obligatory/elective)	Obligatory
Condition				
Subject goal		Application of basic, theoretical-methodological, scientific-professional and expert-applied knowledge and methods on solving of a specific problem. The student studies the topic, its structure and complexity, and on the basis of conducted analyzes, derives the possible ways of solving of a specific problem. By studying literature students learn about methods that are developed for solving similar problems, and about engineering practice in their solving.		
Learning outcome		Оспособљавање студената да самостално примењују претходно стечена знања из различитих подручја које су изучавали, ради сагледавања структуре задатог проблема и његовој системској анализи у циљу извођењу закључака о могућим правцима његовог решавања. Кроз самостално коришћење литературе, студенти проширују знања проучавањем различитих метода и радова који се односе на сличну проблематику. На тај начин, код студената се развија способност да спроводе анализе и идентификују проблеме у оквиру задате проблематике. Практичном применом стечених знања код студената се развија способност да сагледају место и улогу инжењера у изабраном подручју, потребу за сарадњом са другим струкама и тимским радом.		
Subject content				
Theoretical lectures		It is performed individually, in accordance with requirements of a specific master thesis, its complexity and structure. According to student's preferences and inclinations, he / she chooses the field of study and the subject teacher from the list of teachers in the study program. The chosen teacher defines the topic and the specific task for a student. The student studies literature, professional and scientific papers dealing with similar topics, performs analyses in order to find a solution for the specific problem, or performs certain experiments in the laboratory. The study includes active monitoring of primary knowledge, organization and performance of experiments, numerical simulations and statistical data processing, preparation of seminar paper from the field to which the topic of the study and research work belongs.		
Practical lectures (practice, other types of teaching, research)				
Literature				
	1			
	2			
	3			
	4			
	5			
Number of classes of active teaching weekly during semester/trimester/year				
Lectures	Practice	OTT	Research work	Other classes
			15	
Types of teaching				
Assessment (maximum 100 points)				
Pre-exam requirements	Points	Final exam		Points
Activities during lectures		Written exam		
Practical		Oral exam		50
Colloquium				
Seminar papers	50			