Specification for the book of courses

Study program		Computing and Informatics		
Module		Software Engineering		
Type and level of studies		Master studies		
The name of the course		Requirements Engineering		
Lecturer (for lectures)		Rančić D. Dejan, Milosavljević Lj. Aleksandar		
Lecturer/associate (for exercises)		Mihajlović T. Vladan		
Lecturer/associate (for OFE)				
Number of ECTS	4	**Course status (obligatory/elective)**		Elective
Prerequisites				
Course objectives	Introduce students to the field of requirements engineering. Getting aquainted with principles of requirements management as well as with the basic models of requirements engineering.			
Course outcomes	Getting to know the basic principles and models of requirements engineering.			
Course outline				
Theoretical teaching	Introduction and a brief history of requirements engineering. Requirements management. Functional and non-functional requirements. Problems in the requirements specification. Use of standards in the requirements specification. Spiral model for requirement management process. Requirements elicitation. Requirements analysis. Requirements validation. Types of the requirements. Characteristics of the requirements. Fake requirements. Requirements engineering methods. DFD diagrams. Relational methods. Object-oriented methods. Formal methods. Methods based on system behavior. Use-case specification. Viewpoint-based methods. Software tools for requirements engineering.			
Practical teaching (exercises, OFE, study and research	Getting acquainted with software tools for requirements engineering.			
Textbooks/references				
1	Klaus Phol, Requirements Engineering - Fundamentals, Principles, and Techniques., Springer, 2010.			
2	Klaus Phol, Chriss Rupp, Requirements Engineering Fundamentals - A Study Guide for the Certified Professional for Requirements Engineering Exam - Foundation Level - IREB compliant, RockyNock, 2013.			
3	E. Hull, Ken Jackson, Jeremy Dick, Requirements Engineering, Springer, 2005.			
4				
5				

Number of classes of active education per week during semester/trimester/year				
Lectures	**Exercises**	**OFE**	**Study and research work**	**Other classes**
2	1	0		
Teaching methods	Lectures, auditory exercises, independent student work on a project.			

Grade (maximum number of points 100)			
Pre-exam duties	**Points**	**Final exam**	**Points**
Activity during lectures	10	**Written exam**	
Exercises		**Oral exam**	40
Colloquia			
Projects	50		