

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Computing and Informatics		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Software Testing and Quality		
Lecturer (for lectures)		Janković S. Dragan, Bogdanović D. Miloš		
Lecturer/associate (for exercises)		Bogdanović D. Miloš		
Lecturer/associate (for OFE)		Đorđević Z. Dušan		
Number of ECTS	5	Course status (obligatory/elective)	Elective	
Prerequisites				
Course objectives				
Introduction to the concept of software quality and testing, basic techniques for software testing.				
Course outcomes				
Theoretical and practical knowledge about software quality and testing techniques. Built critical approach to software quality and awareness of the importance of software testing.				
Course outline				
Theoretical teaching	Basic concepts of testing and software quality assurance. The process of testing and software quality assurance. Standards, strategies, techniques and methods of testing and software quality assurance. Test case design. Component, integration, acceptance and systems testing. Testing the quality attributes. User interface testing. Web applications testing. Regression testing. Standards and tools for testing and software quality assurance. Planning, monitoring and documenting the testing process. Measurement and managing of testing process.			
Practical teaching (exercises, OFE, study and research)	Auditory and laboratory exercises. Test generation for different kind of testing. Software testing using different testing tools as Junit, NUnit, etc. Introduction to the use of tool Bugzilla. Introduction to the version control systems.			
Textbooks/references				
1	Boris Beizer, Software Testing Techniques, The Coriolis Group, 1990.			
2	Mauro Pezze, Michal Young, Software testing and Analysis: process, principles and techniques, John Wiley & Sons, 2007.			
3	Rick Craig, Stefan Jaskiel, Systematic Software Testing, Artech House Publisher, London, 2002.			
4	Lectures in a form of Power Point presentations			
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	2	1	0	0
Teaching methods				
Lectures, Auditive exercises, Laboratory exercises. Student project realization.				
Grade (maximum number of points 100)				
Pre-exam duties		Points	Final exam	Points
Activity during lectures		5	Written exam	30
Exercises		15	Oral exam	20
Colloquia		30		
Projects				