## **Specification for the book of courses**

Study program			Electrical Engineering and Computer Science	
Module			Common	
Type and level of studies			Doctoral studies	
The name of the course			Digital Control Techniques	
Lecturer (for lectures)			Veselić R. Boban	
Lecturer/associate (for exercises)				
Lecturer/assoc	iate (for OF	E)		
Number of EC	гз	10	Course status (obligatory/elective)	Elective
Prerequisites				
	Mastering the content that is related to the techniques of digital control. Training the students for active			
Course	literature monitoring and scientific research in the field of digital control systems.			
objectives	5 5 7			
Course	Ability of critical analysis of existing solutions and finding original solutions on selected topics in the			
outcomes	theory of digital control systems.			
Course outline				
	Modern theory of digital control systems. Sampling in digital signal processing and digital control			
Theoretical	theory. Uniform approach to the analysis and synthesis of digital control systems. Some elements of			
teaching	analysis and synthesis of nonlinear digital control systems.			
J. J. J.				
Practical				
teaching				
(exercises.				
OFE. study				
and research				
Textbooks/references				
1 R. H. Middleton, G.C. Goodwin, Digital Control and Estimation: A Unified Approach, Englewood Cliffs,				
	N.J.: Prentice-Hall. 1990.			
2	A. Feuer and G. C. Goodwin, Sampling in Digital Signal Processing and Control, Boston; Birkhäuser,			
	1996.			
3				
4				
5				
Number of classes of active education per week during semester/trimester/vear				
Lectures	Exercises	OFE	Study and research work	Other classes
3	0	0	0	0
	Lectures/consultations (depending on the number of students); study and research work (insight into			
	literature, problem analysis, finding solutions, writing and presentations of individual paper)			
Teaching	······································			
methods				
Grade (maximum number of points 100)				
Pre-exam duties Point		Points	/ Final exam	Points
Activity during lectures		0	Written exam	0
Exercises		0	Oral exam	50
Colloguia		0		
Projects		50		