Add.	3		Course program fo	or the	firs	st, second and third le	vel (cy	cle) of studi	es			
1.	Course title					Robot control						
2.	Code				320							
3.	Study group(s)					ACS						
4.			the study program		Faculty of Mechanical Engineering - Skopje,							
_	(unit, institute, department)					Ss. Cyril and Methodius University in Skopje						
5.	Level (first, second, third)					First						
6.	Academic year / semester					winter 7. ECTS credits 6 prof. d-r AtanaskoTuneski						
8. 9.	Instructor Prerequisites					Systems and control - passed						
9. 10.												
	Study of the principles for control of the manipulation robots, design of the servo system for robot control, design of the dynamic control of robot, robust and adaptive robot control											
11.	Course content: Determination of the dynamic model of the robotic system. Design of the dynamic local servo systems for robot control. Design of the decentralized control with simultaneous motion of the robot joints. Design of the global control with manipulation robot. Computer design of the robot control. Analysis of the manipulation robot stability when control laws are implemented. Study methods: Interactive teaching, laboratory and/or auditory exercises, standalone and/or											
12.					ato	ry and/or auditory exerc	ises, s	tandalone an	d/or			
13.	Total hou		k, standalone learni	ing.		6ECTSx30 classes =	180 hr	ours				
13.		ours allocation per activity:				30 + 30 + 30 + 30 + 30 +						
15.					. Lectures			30 hours				
				15.2		Lab (student work)			0 hours			
16.	Project Work/Assignments			16.1.		Project assignments	3		0 hours			
				16.2.		Individual assignments		3	0 hours			
				16.3.		Self-study		3	0 hours			
17.	Points/Marks:											
	17.1. Tests							70	0 points			
	17.2. Projects							20 points				
	17.3. Attendance					10 points						
18.	Grading scale					Under 50		5 (five) (F)			
				F		51 - 60 points		,	(six) (E)			
				[61 - 70 points			/en) (D)			
						71 - 80 points			ght) (C)			
				Ļ		81 - 90 points			ine) (B)			
	<u> </u>					91 - 100 points		10 (ten) (A)			
19.	Prerequisites for taking the final exam					Accomplished 16.1						
20.	Language of Instruction				Macedonian							
21.	Course evaluation					udent questionnaire						
22.	Textbool	ks										
		Instruc	tion materials									
		No.	Author			Title	P	ublisher	Year			
	22.1.	1.	Миомир Вукобратовиќ, Душан Стокиќ			прављање анипулационим оботима	Техничка књига, Београд		1990			
		2.	R.P.Paul		Ro M	obot Manipulators: athematics, rogramming, and		MIT Press, bridge,	1984			

			Control				
	3.	H.Asada,	Robot Analysis and	John Wiley and	1986		
		J.J.E.Slotine	Control	Sons, Inc., USA			
	Supplemental Instruction Materials						
22.2.	No.	Author	Title	Publisher	Year		
	1.						