Add. 3		**Course program for the first, second and third level (cycle) of studies**
1.	Course title	MECHANISMS IN ROBOTICS
2.	Code	206
3.	Study group(s)	MHT
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje
5.	Level (first, second, third)	First
6.	Academic year / semester	Winter term	7.	ECTS credits	6

8.	Instructor	Assistant Prof. Hristijan Mickoski, Ph. D.
9.	Prerequisites	Kinematics and Dynamics - passed

10.	Course objectives (competences): Robots analysis and structure. Control and their application.
11.	Course content: Introduction to robotics; Rigid movements and homogeneous transformations; Direct and inverse kinematics; Jacobians; Movement generator and trajectory; Statics; Dynamics; Control of robots.
12.	Study methods: interactive lectures, auditory practice and/or labaratory practice, self-running and/or team work projects, self-learning

13.	Total hours	6 ECTS x 30 Hours = 180 Hours
14.	Hours allocation per activity:	30 + 45 + 0 + 45 + 60 = 180 Hours

15.	Lectures/Lab	15.1.	Lectures	30 Hours
		15.2.	Lab (student work)	30 Hours
16.	Project Work/Assignments	16.1.	Project assignments	60 Hours
		16.2.	Individual assignments	0
		16.3.	Self-study	60 Hours

17.	Points/Marks:		
	17.1.	Tests	60 points
	17.2.	Projects	30 points
	17.3.	Attendance	10 points

18.	Grading scale	Under 50	5 (five) (F)
		51 - 60 points	6 (six) (E)
		61 - 70 points	7 (seven) (D)
		71 - 80 points	8 (eight) (C)
		81 - 90 points	9 (nine) (B)
		91 - 100 points	10 (ten) (A)
19.	Prerequisites for taking the final exam	completed activities 16.1
20.	Language of Instruction	Macedonian
21.	Course evaluation	Student questionnaire

22.	Textbooks				
	22.1.	Instruction materials			
		No.	Author	Title	Publisher	Year

		1.	Hristijan Mickoski	Script from lectures and exams	Faculty of Mechanical Engineering - Skopje	2011
		2.				
		3.				
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	Craig, J.J.	Introduction to Robotics: Mechanics and Control	Pearson Education	2005
		2.				
		3.				