

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Mechanical components and connections			
2.	Code	208			
3.	Study group(s)	IND, DK			
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	7.	Number of ECTS credits	6
8.	Instructor	Associated professor PhD Petar Simonovski			
9.	Prerequisites	Materials, technologies and tests – signature Technical mechanics 1 - passed			
10.	Course objectives (competences): Ability of the student - future engineer-designer for the proper practical application, selection and calculation of general mechanical components and their relationships in all products during the process of design.				
11.	Course content: Introduction to the application, function, selection and calculation of general mechanical components of products: bolts and nuts with general and special shape and their connections with metallic and non-metallic substrates, pins, springs, axles, bearings, couplings, pipes and pipe fittings and general concepts of mechanical transmissions that occur in industrial products.				
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning				
13.	Total hours	6 ECTS x 30 classes = 180 classes			
14.	Hours allocation per activity:	30 + 30 + 30 + 15 + 75 = 180 classes			
15.	Lectures/Lab	15.1.	Teaching lectures	30 classes	
		15.2.	Practice, seminars, team work	30 classes	
16.	Project Work/Assignments	16.1.	Project assignments	30 classes	
		16.2.	Selfrunning assignments	15 classes	
		16.3.	Home studying	75 classes	
17.	Points/Marks:				
	17.1.	Tests			80 points
	17.2.	Projects			15 points
	17.3.	Attendance			5 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	Implemented activities 17.2 and 17.3			
20.	Language of Instruction	Macedonian language			
21.	Course evaluation	Surveys and other forms of continuous activities			
22.	Textbooks				
	22.1.	Instruction materials			
		No.	Author	Title	Publisher
1.	Robert O. Pamley	Illustrated Source Book of Mechanical Components	McGraw-Hill	2008	

		2.	D. Stamboliev	Machine elements	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje	2011
		3.	P. Simonovski, I. Mircheski, N. Avramov	Machine elements - exercises	Internal edition - script	2012
		Supplemental Instruction Materials				
	22.2.	No.	Author	Title	Publisher	Year
		1.	Budinas - Nisbett	Shigley's Mechanical Engineering Design	Mc Graw Hill	2010