Add. 3		Course program for the first, second and third degree of studies								
1.	Course title			Design and calculation of structures						
2.	Code			235						
3.	Study group(s)			DS						
4.	The organizer of the study program			Faculty of Mechanical Engineering - Skopje,						
_	(unit, institute, department)			Ss. Cyril and Methodius University in Skopje						
5.	Level (first, second, third degree)			First 7. Number of ECTS 6					•	
6.	Academic year / semester						credits	OT ECTS	6	
8.	Professor				Prof. Marjan Gavriloski, PhD					
9.	Preconditions for enrolling the course				none					
10.	Purpos	Purpose of the course program (competences):								
	Introduction to concepts, principals and methods for correct designing of structures. Computer aided modeling and calculation of elements in machine devices and load bearing constructions.									
11.	Conten	ts of the course program:								
	Types of joints in load bearing constructions. Calculations of butt and angle welds. Calculation of welded joins under dynamical load. Basic rules for designing elements for machines devices and load bearing structures. Selection of joints in construction. Computer aided modeling and calculation of elements for machine elements and loaf bearing structures.									
12.	Study r	nethods:								
	interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning									
13.	Total available time period				6 ECTS x 30 hours = 180 hours					
14. 15.		le time assessment fonal activity module	15.1	30 + 15 + 45 + 0 + 90 = 180 ho 1. Teaching lectures				0 hours		
15.	Euucai	ional activity module	15.1 15.2		<u> </u>		m			
		15.			work			'	o nours	
16.	Other a	ctivity module	16.1	1.	. Project assignments		4	5 hours		
		16.2		2.	Selfrunning assignments		ts	0 hours		
			16.3	3.	Home studying			9	0 hours	
17.	Evaluation methods									
	17.1.	Tests						7	5 points	
	17.2.	Projects					20 points			
	17.3. Activity and participation						5 points			
18.	Evalua	tion criteria (points and mar	ks)			er 50	5 (five) (F)			
					51 - 60 p				(six) (E)	
					61 - 70 points		7 (seven) (D)			
				71 - 80 points			8 (eight) (C)			
							nine) (B)			
19.	Signature and final exam requirements				91 - 100 points 10 (ten) (A) none					
20.	Language used for performing the			Macedonian language						
20.	teaching									
21.	Method used for following the teaching quality			Questionnaire and other type of continuum evaluation						

22.	References								
	22.1.	Main references							
		No.	Author	Title	Publisher	Year			

	1.	С. Стојмановски	Заварени врски и конструкции - скрипта	МФС	2006			
	2.	E. Oberšmit	Osnove konstruiranja	Zagreb	1985			
	3.							
	Additional references							
22.2.	No.	Author	Title	Publisher	Year			
	1.	Р. Македонија	Норми и стандарди					