Add. 3	Course program for the first, second and third degree of studies					
1.	Course title	Bearing metal structures				
2.	Code	229				
3.	Study group(s)	MJSE, DS				
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 degree)	First				
6.	Academic year / semester	summer	7.	Number of ECTS credits	6	
8.	Professor	Prof. Zoran Bogatinoski, Ph.D				
9.	Preconditions for enrolling the course	none				
10.	Purpose of the course program (competences): Introduction to methods and valid standards for calculation and design of bearing metal structures, design of main bearing elements and design of joints.					
11.	Contents of the course program: Bearing metal structure (BMS) types and classification. Load determination, choosing the adequate constructional steel as a structure material using MKS and EC1 standards. Design of basic bearing steel elements of a BMS (roofing sheet metal, beams, columns, bracing and their connections), stress, stability and deformation control. Making model drawings of a BMS (disposition and details).					
12.	Study methods: Interactive lectures, auditory and/or laboratory practice, selfrunning and/or team work on project assignments, selfrunning assignments					
13.	Total available time period	6 ECTS x 30 hours = 180 hours				
14.	Available time assessment	30 + 30 + 60 + 30 + 30 = 180 hours				
15.	Educational activity module	15.1.	Teaching lectures	30 hours		
		15.2.	Practice, seminars, team work	30 hours		
16.	Other activity module	16.1.	Project assignments	60 hours		
		16.2.	Selfrunning assignments	30 hours		
		16.3.	Home studying	30 hours		
17.	Evaluation methods					
	17.1.	Tests	0 points			
	17.2.	Projects	80 points			
	17.3.	Activity and participation	20 points			
18.	Evaluation criteria (points and marks)	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.	Signature and final exam requirements	none				
20.	Language used for performing the teaching	Macedonian language				
21.	Method used for following the teaching quality	Questionnaire and other type of continuum evaluation				

22.	References				
	Main references				
	No.	Author	Title	Publisher	Year
22.1.	1.	З.Богатиноски, Б.Трајаноска	Носечки метални конструкции (script)	МФС	2010
	2.	В.Георгиевски	Теорија на метални конструкции	УКИМ	1993

		3.	Р.Македонија	Норми и стандарди		
	22.2.	Additional references				
		No.	Author	Title	Publisher	Year
		1.				