/ (aa.	3		Course progran	n f or	the fi	rst, second an	d thi	rd degre	e of studies	5		
1.	Course tit	е			Desig	n of bearing str	uctu	res				
2.	Code				135							
3.	Study group(s)				ПИ, ТМЛ, ТИ, ХИМВ, МЈЅЕ, ИИМ, МВ, ЕЕ, МХТ, АУС, 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				credits			of ECTS	6			
8.	Professor					Prof. Marjan Gavriloski, Ph.D Prof. Zoran Bogatinoski, Ph.D						
9.			enrolling the cours		none							
10.	Purpose of the course program (competences): Introduction to methods and valid standards for calculation and design of bearing elements (steel beams, columns and their connection), with focus on the most important elements of a bearing structure – the joints, especially welded (butt and fillet welds).											
11.	Contents of the course program: Design and calculation of basic bearing elements (beams, columns and their connections); stress, stability and deformation control. Connection types and classification. Bolted connections (simple and high-strength pre-tensed bolts). Welded joints types (fillet and bead welds). Structural calculation, stress analysis and dimensioning of butt and fillet weld joints.											
12.			nteractive lectures,				/ pra	ctice, self	running and/	or tea	ım	
10			ssignments, selfrur	nning	assig			400.1				
13.	Total avai					6 ECTS x 30 h						
14.	Available			4 - 4	30 + 30 + 0 + 30 + 90 = 180 hours							
15.	Education	Educational activity module		15.1 15.2	2. P	Teaching lectures Practice, seminars, team work		30 hours 30 hours				
16.	Other activity module			16.1		oject assignments		0 hours		urs		
						elfrunning assignments		3	30 hou	ırs		
				16.3	3. H	ome studying			Ç	90 hou	urs	
17.	Evaluation		ds									
	17.1. Tests								80 points		nts	
-	17.2. Projects							10 points				
	17.3. Activity and participation								10 points		nts	
18.	Evaluation criteria (points and marks)						der 5			(five) (
						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)		
9.	Signature	and fina	al exam requireme	nts	none							
20.	Language used for performing the teaching					Macedonian language						
21.	Method us quality	sed for f	following the teachi	Questionnaire and other type of continuum evaluation					on			
22.	Referenc	es										
22.	Referenc		eferences									

	1.	С.Стојмановски	С.Стојмановски	Машински	2006				
				факултет - Скопје					
	2.	3.Богатиноски Б.Трајаноска	Носечки метални конструкции (script)	Машински факултет - Скопје	2010				
	3.								
	Additional references								
22.2.	No.	Author	Title	Publisher	Year				
	1.	Р.Македонија	Норми и стандарди	Р.Македонија					