

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Designing for safety			
2.	Code	264			
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. Marjan Gavriloski, Ph.D			
9.	Preconditions for enrolling the course	none			
10.	Purpose of the course program (competences): Introduction to concepts, principles and methods for providing safety; safety measures according to valid standards and European regulations. Risks and ways of protection during: welding, constructing and exploiting of bearing structures and machines.				
11.	Contents of the course program: Introduction to designing for safety. Anthropological measures and data. Defining safety, danger and risk. Models of designing, basic concepts, principles and safety methods. Basic requirements of the European regulations for safety and health standards for machines. Construction of safety assets, general seeing. Types of safety devices and personal safety assets. Dangers during welding. Types of safety devices and ways of protection during welding and building bearing structures. Overloading safety measures for bearing structures.				
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 + 15 + 45 + 0 + 90 = 180 hours			
15.	Educational activity module	15.1.	Teaching lectures	30 hours	
		15.2.	Practice, seminars, team work	15 hours	
16.	Other activity module	16.1.	Project assignments	45 hours	
		16.2.	Selfrunning assignments	0 hours	
		16.3.	Home studying	90 hours	
17.	Evaluation methods				
	17.1.	Tests			75 points
	17.2.	Projects			20 points
	17.3.	Activity and participation			5 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				
	22.1.	Main references			
		No.	Author	Title	Publisher

		1.	М. Гаврилоски	Проектирање за Сигурност - script	Машински факултет - Скопје	2006
		2.				
		3.				
	22.2.	Additional references				
		No.	Author	Title	Publisher	Year
		1.	Group of authors	Метод образовања кадрова из области заштите на раду	ЈИДЗР-Ниш	1974
		2.	W.Christensen, F.Manuele	Safety Through Design	Ohio Univesity	1999