Add	. 3	Course progran	n for t	he f	irst, second an	d third	d degree	e of studies	;	
1.	Course title			Related welding methods						
2.	Code			297						
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			winter 7. Number of E credits			of ECTS	6		
8.	Professor			Prof. Dobre Runchev, Ph.D						
9.	Preconditions for enrolling the course			Joining techniques - passed						
10.	Purpose of the course program (competences): Selection, preparation and realization of various technologies for: surfacing, thermal spraying and thermal cutting.									
11.	Contents of the course program: Introduction to related welding methods: surfacing, thermal spraying - metallization and thermal cutting, brazing and adhesive bonding. Introduction in details with preparation and realization of technologies for: surfacing, thermal spraying and thermal cutting with gas flame, electric arc, plasma and laser.									
12.	Study methods: Interactive lectures, auditory and/or laboratory practice, individual and/or team work on project assignments, individual study.									
13.	Total available time period				6ECTSx30 hours =180 hours					
14.	Available time assessment				30+30+12+8+100=180 hours					
15.			15.1		eaching lecture			30 hou		
			15.2	work			m		30 hours	
16.	Other activity module		16.1		Project assignments			1	12 hours	
		10		<u> </u>		ts		8 hours		
				. Home studying		100 hours				
17.	Evaluation methods						ı		0 : 1	
	17.1. Tests							70 points		
	17.2. Projects							20 points		
10	17.3. Activity and participation				· ·			0 points		
18.	Evaluation criteria (points and marks)				Under 50		_	5 (five) (F)		
				51 - 60 points 61 - 70 points			6 (six) (E)			
			}	71 - 80 points			7 (seven) (D) 8 (eight) (C)			
				81 - 90 points			9 (nine) (B)			
				91 - 90 points 9 (nine) (B						
19.	Signature and final exam requirements				Realization of activities 15.1, 15.2, 16.1 and 16.2					
20.	Language used for performing the teaching			Macedonian language						
21.	Method used for following the teaching quality				Questioners and other forms of continues evaluation					

22. References

		Main references							
	22.1.	No.	Author	Title	Publisher	Year			
		1.	Добре Рунчев	Сродни постапки на заварување	Машински факултет - Скопје	2004			
		2.			-				
		3.							
		Additional references							
	22.2.	No.	Author	Title	Publisher	Year			
		1.	K. Smolka	Termisches Spritzen	DVS Band 15	1985			
		2.	N.N.	Handbuch für das Reparaturschweißen und Instandhaltungsschweiße n	ESAB, Sgzetterqvist, Göteborg	1999			
		3.	Robert Killing	Welding processes and thermal cutting	DVS Verlag	2004			