Add.	3	Course program for the first, second and third level (cycle) of studies											
1.	Course title				Medical Engineering								
2.	Code Study group(s)				194 Dist								
3. 4	The orga	hizer of	the study program		Faculty of Mechanical Engineering - Skopie								
	(unit, inst	itute, de	partment)		Ss. Cyril and Methodius University in Skopje								
5.	Level (first, second, third)					First							
6.	Academic year / semester					summer 7. ECTS credits 6							
8.	Instructor					Prof D-r Ljuben Dudeski Prof D-r Jasmina Caloska							
9	Prereguisites					N/A							
10.	Course objectives (competences):												
	Introduction to technical equipment and software support in medical operations.												
11.	Course content: Historical development of medical engineering. Equipment and software support in medical diagnosis. General methods and equipment for medical diagnostics (ECG, ambulatory blood pressure, ambulatory ECG stress test). Methods and equipment for medical ultrasound diagnostic. Systems for monitoring the patient's condition. Laboratory tests in medicine. Physical therapy techniques and equipment. Computer aided design of orthopedic devices. Information systems in medical operations. Advanced techniques in medical engineering.												
12.	Study methods: Interactive lectures, exercises auditory and / or laboratory, individual and / or team working on project assignments, self-study.												
13.	Total hou	rs			6 ECTS x 30 hours = 180 hours								
14.	Hours all	ocation	per activity:	30 + 30 + 30 + 30 + 30 + 6	$\cdot 30 + 60 = 180$ hours								
15.	Lectures/	Lab		15.1	. L	ectures ab (student work)		30 hours					
16.	Project W	/ork/Ass	ignments	16.1	. P	roject assignments		30 hours					
			•										
				16.2	2. Ir	ndividual assignments		30 hours					
				16.3	3. S	elf-study		60 hours					
17.	Points/Ma	arks:					1						
	17.1. T	ests	70 points										
	17.2. P	rojects					20 points						
	17.3. A	ttendan	се					10 points					
18.	Grading s	scale				Under 50		5 (five)	(F)				
						51 - 60 points		6 (six) (	( <u>E)</u>				
					61 - 70 points			7 (seven) (D) 8 (oight) (C)					
						81 - 90 points		9 (nine) (B)					
						91 - 100 points	ts 10 (ten) (A)		(A)				
19.	Prerequis	ites for	taking the final exa	m	Realized activity 17.2								
20.	Language of Instruction					Macedonian							
21.	Course e	valuatio	n		Student questionnaire								
22.	Textbooks												
	20.4	Instruction materials											
	22.1.	No.	Author			Title		Publisher Year					

		1.	Lj. Dudeski, J. Caloska	Medical Engineering	Faculty of Mechanical Engineering - Skopje	2011					
		2.									
		3.									
		Supplemental Instruction Materials									
	22.2.	No.	Author	Title	Publisher	Year					
		1.									
		2.									