Add. 3 Course program for the first, second and third degree of studies													
1.	Course title				Operations Research 1								
2.	Code				239								
3.	Study group(s)				IEM								
4.	The organizer of the study program				Faculty of Mechanical Engineering - Skopje,								
_	(unit, institute, department)				Ss. Cyril and Methodius University in Skopje								
5. 6.	Level (first, second, third degree) Academic year / semester				First Vinter 7. Number of ECTS 6								
	-					credits			ULECTS	0			
8.	Professor				Prof. Vancho Donev								
9.	Preconditions for enrolling the course					Mathematics 1 – passed							
10.	Purpose of the course program (competences):												
	Optimization of industrial processes												
11.	Contents of the course program:												
	Operations research and management. Linear programming. Transportation problem. Method of sequencing. Queuing theory.												
12.	Study methods:												
	Interactive teaching, Laboratory and/or in-class exercises, individual and/or team work on projects, self-study.												
13.	Total available time period				6 ECTS x 30 hours = 180 hours								
14.	Available time assessment				30 + 30 + 30 + 50 + 40 = 1								
15.	Educatior	al activ	ity module	15.1		eaching lecture			30 hours				
				15.2		ractice, semina ork	rs, te	team 30 ł			urs		
16.	Other act	Other activity module 16			. P	Project assignments			30 hours		urs		
				16.2	2. S	elfrunning assi	gnme	ents 50 hour			urs		
				16.3	3. H	ome studying			4	l0 ho	urs		
17.	Evaluation	n metho	ds										
	17.1. To	ests							70 points				
	17.2. Projects								20 points				
	17.3. A	ctivity a	nd participation					10 points					
18.	Evaluatio	n criteria	a (points and marks	s)	Under 50			0	5 (five) (F)				
					51 - 60 points			S	6 (six) (E)				
						61 - 70 points			7 (seven) (D)				
						71 - 80			8 (eight) (C)				
						81 - 90 points			9 (nine) (B)				
10	Signatura	and fin		nto	91 - 100 points			S	10 (ten) (A)				
19.	Signature and final exam requirements					Realized activity 17.2							
20.	Language used for performing the teaching					Macedonian language							
21.	Method u quality	sed for	following the teachi	ing	Surveys and other forms of continuous evaluation								
22.	Reference	es											
		Main re	eferences										
	22.1.	No.	Author		Title				Publisher		Year		
		1.	Vancho Donev			Operations research linear programming			Sistem+		2002		

	2.	Vancho Donev	Operations research – transportation problems	Sistem+	2002				
	3.	Vancho Donev	Operations research – queuing theory	Sistem+	2002				
22.2.	Additional references								
	No.	Author	Title	Publisher	Year				
	1.								