

Add. 3		Course program for the first, second and third degree of studies				
1.	Course title	Operations Research 1				
2.	Code	240				
3.	Study group(s)	IEM				
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. Vancho Donev				
9.	Preconditions for enrolling the course	Operations Research 1 - signature				
10.	Purpose of the course program (competences): Optimization of service processes					
11.	Contents of the course program: Methods for replacement. Simulation. Inventory management. Game 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 = 180 hours				
15.	Educational activity module	15.1.	Teaching lectures	30 hours		
		15.2.	Practice, seminars, team work	30 hours		
16.	Other activity module	16.1.	Project assignments	30 hours		
		16.2.	Selfrunning assignments	50 hours		
		16.3.	Home studying	40 hours		
17.	Evaluation methods					
	17.1.	Tests			70 points	
	17.2.	Projects			20 points	
	17.3.	Activity and participation			10 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	Realized activity 17.2				
20.	Language used for performing the teaching	Macedonian language				
21.	Method used for following the teaching quality	Surveys and other forms of continuous evaluation				
22.	References					
	22.1.	Main references				
		No.	Author	Title	Publisher	Year
		1.	Vancho Donev	Operations research – queuing methods	Sistem+	2002
2.	Vancho Donev	Operations research – book 1		1991		

		3.	Vancho Donev	Operations research – inventory management	Sistem+	2002
		Additional references				
	22.2.	No.	Author	Title	Publisher	Year
		1.				