

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Construction and Mining Machines			
2.	Code	121			
3.	Study group(s)				
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)	First			
6.	Academic year / semester	Third / 6	6	Number of ECTS credits	6
8.	Instructor	Prof. Janko Janchevski, Ph.D.			
9.	Prerequisites	Machine Elements			
10.	Course objectives (competences): Design, calculations, exploitation and maintenance of construction and mining machines				
11.	Course content: Importance of mechanization. Earth moving machines (digging and loading processes), road machinery, machines for production of construction materials. Mine activities and equipment. Ecological and safety aspects in the design and exploitation processes of the construction and mining machines and equipment.				
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning				
13.	Total hours	30 + 30 + 30 + 30 + 60 = 180			
14.	Hours allocation per activity:	180			
15.	Lectures/Lab	15.1.	Teaching lectures	30	
		15.2.	Practice, seminars, team work	30	
16.	Project Work/Assignments	16.1.	Project assignments	30	
		16.2.	Selfrunning assignments	30	
		16.3.	Home studying	60	
17.	Points/Marks:				
	17.1.	Tests			70
	17.2.	Projects			20
	17.3.	Attendance			10
18.	Grading scale	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.	Prerequisites for taking the final exam				
20.	Language of Instruction				
21.	Course evaluation				

22.	Textbooks				
22.1.	Instruction materials				
	No.	Author	Title	Publisher	Year
	1.	Janko Janchevski	Construction and mining machines	Internal book	2007
	2.	Momir Plavsic	Gragjevinske masine	Naucna knjiga Belgrade	1990
3.					
22.2.	Supplemental Instruction Materials				
	No.	Author	Title	Publisher	Year
	1.	Bogdan Trbojevic	Gragjevinske masine	Gragjevinska Belgrade	1988