

Add. 3		Course program for the first, second and third degree of studies			
1.	Course title	Motor Vehicles			
2.	Code	223			
3.	Study group(s)	MV			
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	Winter	7.	Number of ECTS credits	6
8.	Instructor	Associated professor PhD Darko Danev			
9.	Prerequisites	Mechanical elements - signature Engineering graphics - signature			
10.	Course objectives (competences): Introduction to vehicles, elements from the theory of movement of vehicles and also, introduction to the construction and structure of motor vehicles. (Construction of elements, assemblies and systems of motor vehicles, defining the resistance and calculation of the required power).				
11.	Course content: Classification and division, basic principles of construction, safety aspects, phases in development of motor vehicles, elements of the power transmission system, non-power bridges, suspension, steering and braking. Defining and determining the forces and the resistances which affect the vehicles, as well as defining the required power for motor vehicle motion.				
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or teamwork projects, self learning.				
13.	Total hours	6 ECTS x 30 classes = 180 classes			
14.	Hours allocation per activity:	30 + 30 + 60 + 0 + 60 = 180 classes			
15.	Lectures/Lab	15.1.	Teaching lectures	30 classes	
		15.2.	Practice, seminars, teamwork	30 classes	
16.	Project Work/Assignments	16.1.	Project assignments	60 classes	
		16.2.	Self running assignments	0 classes	
		16.3.	Home studying	60 classes	
17.	Points/Marks:				
	17.1.	Tests			80 points
	17.2.	Projects			10 points
	17.3.	Attendance			10 points
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	Accomplished activities: 15.1, 15.2 and 16.1.			
20.	Language of Instruction	Macedonian language			
21.	Course evaluation	Questionnaires and other forms of continuous evaluation			
22.	Textbooks				
	22.1.	Instruction materials			
		No.	Author	Title	Publisher
1.	Dragi Danev	Construction of the motor	Faculty of	2000	

				vehicles	Mechanical Engineering - Skopje	
		2.	Todor Davchev Slave Jakimovski	Motor vehicles (theoretical foundations and construction)	Faculty of Mechanical Engineering - Skopje	2000
		3.				
		Supplemental Instruction Materials				
	22.2.	No.	Author	Title	Publisher	Year
		1.	Dragi Danev	Theory of movement of the motor vehicles	Faculty of Mechanical Engineering - Skopje	1999
		2.	Malcolm James Nunney	Light & Heavy Vehicle Technology	Butterworth- Heinemann	2006