Add. 3		Course program for the first, second and third level (cycle) of studies						
1.	Course title		C	Diagnostics and maintenance				
2.	Code			138				
3.	Study group(s)			MV, TML				
4.	The organizer of the study programme			aculty of Mechanical En	gineering	I - Skopje,		
	(unit, institute, department)			Ss. Cyril and Methodius University in Skopje				
<u>5.</u>	Level (first, second, third)							
b.	Academic year / semester			IV / VII (winter) 7. ECTS credits 6				
8. 0	Distructor	itoo		Dr. Igor Gjurkov, associate protessor				
9.	TML students: Motor vehicles							
10. 11.	Course objectives (competences): Detection, localization, analysis and repair of faults in the main automotive and mechanization machinery systems. Use of basic, universal diagnostic tools and equipment. Diagnostic skills using dedicated modern off-board diagnostics equipment. Course content: Motor vehicles' maintenance – general approach and strategies. Diagnostic methods for motor							
	vehicles and mechanization machinery maintenance. Diagnostic on system's and on component's level. On-board diagnostics. Sensors and actuators. Off-board diagnostics tools and equipment. Modern gasoline and diesel engine diagnostics. Steering, suspension and braking systems' diagnostics and maintenance. Specific diagnostic methods for mechanization machinery.							
12.	Study met	thods: lectures, exercises /	lab, p	roject, self study			_	
13.	Total hour	S		6 ECTS x 30 hours	= 180 hc	burs	_	
14.	Hours allo	cation per activity:	454	30 + 30 + 50 + 0 +	70 = 180	hours	_	
15.	Lectures/L	_ab	15.1.	Lectures		30 hours	4	
16	Project W	Droject Work/Assignments		Lab (Student WORK) Project assignments		30 hours		
10.		Project work/Assignments 16		T. Troject assignments		00 110013		
			16.2.	Individual assignment	S	0	1	
			16.3.	Self-study		70 hours		
17.	Points/Ma	irks:						
	17.1. Te	ests				65		
	17.2. Projects17.3. Attendance					30	_	
						5	-	
18.	Grading s	cale		Under 5	0	5 (five) (F)	-	
lo. Orading of			F	51 - 60 point	S	6 (six) (E)	1	
			F	61 - 70 point	s	7 (seven) (D)	1	
			F	71 - 80 point	S	8 (eight) (C)]	
				81 - 90 point	s	9 (nine) (B)]	
				91 - 100 points 10 (ten) (A				
19.	Prerequisi	ites for taking the final exami	m	completed activity 16.1				
20.	Language of Instruction			Macedonian			1	
21.	Course ev	valuation		Student questionnaire				
22.	Textbook							
		Instruction materials						
		monuoninnateriais						

	22.1.	Instruction materials						
		No.	Author	Title	Publisher	Year		
		1.	Todor Davchev	Automotive engines: components, diagnostics, maintenance (in	Studentski zbor, Skopje	2011		

			Macedonian)					
	2.	Todor Davchev	Motor vehicles' braking systems (in Macedonian)	Studentski zbor, Skopje	2000			
	3.	Tom Denton	Advanced automotive fault diagnosis	Elsevier, Oxford	2006			
	Supplemental Instruction Materials							
22.2.	No.	Author	Title	Publisher	Year			
	1.	Tom Denton	Automotive electrical and electronic systems	Elsevier, Oxford	2004			