Add. 3		Course program for the first, second and third degree of studies						<b>i</b>	
1.	Course title			Metrology and measurement systems					
2.	Code			204					
3.	Study gro	up(s)	F	PI					
4.	The organizer of the study program (unit, institute, department)			Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje					
5.	Level (firs	t, second, third degree)	F	irst					
6.	Academic	year / semester	V	winter 7. Number of ECTS credits			6		
8.	Professor			Professor Mikolaj Ku	ızinov	ski, PhD			
9.		ions for enrolling the cours		not have					
10.	Purpose of the course program (competences):  Getting of the knowledge for the metrological characteristics of measurement tools and machines. Capable of the conducting measurements and processing the results of measurements in manufacturing processes.								
11.	Contents of the course program: Introduction to the basic concepts and terminology of metrology. Measurement methods. Classification of measurement errors and measurement tools and machines. Geometrical tolerances and measurements of the geometrical sizes of parts. Deviation of the shape and position. Managment of the measurement tools and machines. Computer-aided measurements and processing of the measurement results.								
12.	Study methods: Interactive teaching, auditory and /or laboratory practical, individual and / or team working on the project assignments, self-study.								
13.	Total avai	lable time period		6 ECTS x 30 hours = 180 hours					
14.		time assessment		30 + 30 + 30 + 30 + 60 = 180 hours					
15.	Education	nal activity module	15.1.	- U			30 hours		
			15.2.	,	rs, tea	am	;	30 hours	
40	Oth (	9.26 d. 1 .	40.4	work			00.1		
16.	Other acti	ivity module	16.1.	, 3			30 hours		
		16.2. Selfrunning assignment 16.3. Home studying		ű ű			30 hours		
47	F 1 0				60 hours				
17.		n methods				1		70 nainta	
		ests						0 points	
		rojects					20 points		
		ctivity and participation						0 points	
18.	Evaluation	n criteria (points and marks	s) _	Under 50			5 (five) (F)		
			-	51 - 60				(six) (E)	
				61 - 70				ven) (D)	
			71 - 80 points				8 (eight) (C)		
			81 - 90 points			9 (nine) (B)			
19.	91 - 100 points							(ten) (A)	
	Signature and final exam requirements The realized activities 15.2; 16.1 and 16.2						<u> </u>		
20.	teaching	e used for performing the		Macedonian language					
21.	<ol> <li>Method used for following the teaching quality</li> </ol> The polling and other forms of continuous					ntinuous eva	aluation		
22	Reference								

22.	Referen	nces							
	22.1	Main references							
	22.1.	No.	Author	Title	Publisher	Year			

	1.	M. Kuzinovski	Metrology and Measurement systems (reproduced lectures)	Faculty of mechanical engineering- Skopje	2012			
	2.	W. Plowucha	Metrologia warsztatowa	Poland	1993			
	3.	W.Jakubiec	Metrologia wielkosci geometrycznych	WNT, Poland	1999			
	Additional references							
22.2.	No.	Author	Title	Publisher	Year			
	1.							