

Annex No. 3		First Cycle Studies Course Programme			
1.	Course Title	<b>Economic Statistics</b>			
2.	Code	MST 210			
3.	Study programme				
4.	Organizer of the study programme (university unit i.e. institute, chair, department)	Ss. Cyril and Methodius University in Skopje Faculty of Economics - Skopje Chair of Mathematics and Statistics			
5.	Level (first, second, third cycle)	First cycle			
6.	Academic year / semester	2022-2023 4 <sup>th</sup> (Summer semester)	7.	Number of ECTS credits	7.5
8.	Professor	Prof. Dragan Tevdovski, PhD			
9.	Preconditions for enrolment	None			
10.	<p><b>Course Objectives (Competencies):</b> The aim of the course is to prepare students in the best possible way to use statistical databases (either domestic or foreign), according to their needs for quantitative research. Upon completion and passing of this course, students should be able to:</p> <ul style="list-style-type: none"> <li>- understand the theoretical background necessary to construct composite indices</li> <li>- be able to interpret the results of economic measurements and use them for international and local comparisons</li> <li>- use the statistical program R to solve real problems.</li> </ul>				
11.	<p>Course content: Data analysis with the help of composite indexes is of great importance for decision making in various domains of the economy: from international trade, through finance, to the business sector. In addition, index figures are often displayed in public and used in political and economic debates. Hence, it is of particular importance for students to gain critical knowledge of how to construct and interpret composite indices using one of the most commonly used statistical software R. The course content consists of:</p> <ol style="list-style-type: none"> <li>1. Methods for constructing composite indices</li> <li>2. Descriptive analysis of composite indices</li> <li>3. Visualization of composite indices</li> <li>4. Methods of statistical inference</li> <li>5. Measuring economic activity and capacity</li> <li>6. Measuring international trade</li> <li>7. Measuring economic welfare</li> </ol>				
12.	Learning methods: interactive lectures with presentations, problem solving exercises, team projects, individual tasks, and home learning.				
13.	Total hours	7.5 ECTS x 30 classes = 225 classes			
14.	Allocation of hours per activity	60+30+30+15+90= 225 classes			
15.	Types of teaching activates	15.1.	Lectures	60 classes	
		15.2.	Exercises (Seminars)	30 classes	
16.	Other types of activities	16.1.	Written projects	30 classes	
		16.2.	Individual tasks	15 classes	
		16.3.	Home studying	90 classes	
17.	Grading method: 60+30+10=100 points				
	17.1.	Written test		60%	
	17.2.	Written projects (written an oral presentation)		30%	

	17.3.	Attendance and class participations			10%	
18.	Grading scale		less than 50 points	5 (five) (F)		
			from 51 to 60 points	6 (six) (E)		
			from 61 to 70 points	7 (seven) (D)		
			from 71 to 80 points	8 (eight) (C)		
			from 81 to 90 points	9 (nine) (B)		
			from 91 to 100 points	10 (ten) (A)		
19.	Preconditions for taking the final exam		Realized activities from points 15.1, 15.2, 16.1, 16.2, 16.3			
20.	Language		Macedonian (or English)			
21.	Evaluation method		Internal evaluation and survey			
22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	Fischetti, T.	Data analysis with R	Packt Publishing Ltd	2015
	2.	Ralph, J., O'Neill, R. and Winton, J.	A practical introduction to index numbers	John Wiley & Sons	2015	
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.	Van kerm, P. and Jenkins, S. P.	The measurement of economic inequality	Oxford University Press	2009
		2.	Hausmann, R., Hidalgo, C.A., Bustos, S., Coscia, M. and Simoes	The atlas of economic complexity: Mapping	Mit Press	2014
		3.	Timmer, M., Erumban, A.A., Gouma, R., Los, B., Temurshoev, U., de Vries, G.J., Arto, I.A., Genty, V.A.A., Neuwahl, F., Francois, J. and Pindyuk, O.	The world input-output database (WIOD): contents, sources and methods	Institute for International and Development Economics	2012
4.	Билбиловска, Г.	Економска статистика	Економски факултет - Скопје	2006		

		5.	Ристески, С. И Секуловска- Габер, Б.	Економска статистика: моделирање на статистичките податоци	Економски факултет – Скопје	2004
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