Annex No. 3		Second Cycle Studies Course Programme			
1.	Course Title	**Statistical Analysis**			
2.	Code	STM 518			
3.	Study programme	Statistical Methods for Business and Economics			
4.	Organizer of the study programme (university unit i.e. institute, chair, department)	Ss. Cyril and Methodius University in Skopje Faculty of Economics - Skopje			
5.	Level (first, second, third cycle)	Second cycle			
6.	Academic year / semester	First year (winter semester)	7.	Number of ECTS credits	6
8.	Professor	Prof. Kalina Trenevska Blagoeva, PhD			
9.	Preconditions for enrolment	240 ECTS			
10.	**Course Objectives (Competencies):** After taking this course, students should be able to: 1. understand the attributes, measuring scales and to present the data graphically. 2. use descriptive analysis. 3. use probability and random variables in solving business problems. 4. know how to extract an appropriate statistical sample from the population. 5. understand statistical inference which is the basis for interpreting results and making business decisions. 6. be able to use correlation and simple and multiple regression. 7. know the basics of analysis of variance. 8. use chi-square testing.				
11.	Course content: 1. Introduction (types of attributes and measuring scales, graphic display) 2. Descriptive measures 3. Random variables and probability distributions 4. Sampling 5. Statistical inference 6. Analysis of variance 7. Regression and correlation analysis 8. Chi-square tests				
12.	Learning methods:				
13.	Total hours	6 ECTS x 30 classes = 180 classes			
14.	Allocation of hours per activity	24+16+40+10+90=180 classes			
15.	Types of teaching activates	15.1.	Lectures		24 classes
		15.2.	Exercises (Seminars)		16 classes
16.	Other types of activities	16.1.	Projects		40 classes
		16.2.	Homework		10 classes
		16.3	Study		90 classes
17.		Grading method: 60+30+10=100 points			
	17.1.	Tests (Domain, Essay, Multiple choice exam, Case)		60 %	
	17.2.	Individual projects		30 %	
	17.3.	Other activities, attendance and class participations		10 %	
	17.4.				

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 and 16	
20.	Language		Macedonian (or English)	
21.	Evaluation method		Internal evaluation and survey	

22.	Literature					
	22.1.	Compulsory literature				
		No.	Author	Title	Publisher	Year
		1.	David M. Lane, David Scott, Mikki Hebl, Rudy Guerra, Dan Osherson, and Heidi Zimmer	*Introduction to Statistics*	Introduction to Statistics - Open Textbook Library https://open.umn.edu	2003
		2.	Newbold, Paul, William L. Carlson, and Betty Thorne	*Statistics for Business and Economics, 6th ed.*	Prentice Hall	2007
		3.	Joshua M. Tebbs	*Introduction To Descriptive Statistics*	Department of Statistics The University of South Carolina, Lecture Notes	2006
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1.				
		2.				