Annex No. 3		Second Cycle Studies Course Programme							
1.	Course Title	Financial Econometrics							
2.	Code	CFM521							
3.	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 Management							
4.	Level (first, second.	Second Cycle Studies Course Programme Corporate Financial							
	third cycle)	Management							
6.	Academic year	2022-2023 (winter/summer semester)	7.	Numbe credits	er of ECTS	6			
8.	Professor	Prof. Vesna Bucevska, PhD							
9.	Preconditions for enrolment	Completed first cycle of studies with at least 240 credits and have basic knowledge of econometrics.							
10.	 Course Objectives (Competencies): After taking this course, students should be able to: 1. Implement Generalized Autoregressive Models (GARCH Models) and Stochastic Volatility Models to represent the dynamic behavior of uncertainty. 2. Estimate time-varying correlations between financial returns. 3. use econometric models to test different financial hypotheses and models, such as testing the effectiveness of markets, assessing the risk of an individual stock by calculating its value at risk (Value at Risk), etc. 								
11.	 Course content: Summary of the classical linear regression model (CLRM): assumptions, statistical inference, prediction, nonlinear models and further development and analysis of the CLRM; Modeling and forecasting of univariate time series (AR, MA, ARMA and ARIMA, Exponential smoothing and Prediction using ARMA models); Multivariate models (Simultaneous equations in finance, Structural, reduced and final form, Triangular systems, Procedures for evaluating systems of simultaneous equations, Vector autoregressive models (VAR) and VAR models with exogenous variables); Modeling of long-term relationships in finance (examination of the existence of stationarity, cointegration, error correction models, methods for estimating parameters in cointegrated systems) 								
12.	 Learning methods: Lectures, exercises, case studies, interactive teaching, quizzes, projects, films, supported by LCD and Power Point. 								
13.	Total hours	6ECTS x 30 classes = 180 classes							
14.	Allocation of hours per activity			24+1	24+16+40+10+90 = 180 classes				
15.	Types of teaching	15.1.	Lectures		24 classe				
L	activates	15.2.	Exercises (Se	eminars)	16 classes			
16.	Other types of activities	16.1.	Project tasks		40 classes				
		16.2.	Independent	tasks		10 classes			
		16.3	Home study			90 classes			
17.		Grading method: 60+30+10 = 100 points							
	17.1.	Fests (Domain, Essay, Multiple choice60 pointsexam, Case)60 points							
	17.2.	Project work presentation (written and				30 points			

	oral), computer exercise								
	17.3.	Attendance and class participations			10 points				
18.	Grading scale			less than 50 points	5	(five) (F)			
				from 51 to 60	6	5 (six) (E)			
				points	pints				
				from 61 to 70	7 (seven) (D)				
				points					
				from 71 to 80	8 (eight) (C)				
				points					
				from 81 to 90	9 (nine) (B)				
				points					
				from 91 to 100	10 (ten) (A)				
10	Duran ditions for taking the final array			points Dealized extinition f	rom points 15 and 16				
19.	Preconditions for	Realized activities in	rom points 15 and	10					
20.	Language Macedonian (or E				glish)				
21.	Evaluation metho	uation method Internal evaluation a				nd survey			
	Literature								
		Compulsory literature							
	22.1.	No.	Author	Title	Publisher	Year			
		1	Brooks C	Introductory	Cambridge	2010			
		1.	DIOOKS, C.	Econometrics for	University	2019			
				Finance, 4th ed.	Press				
		2.	Linton, O.	Financial	Cambridge	2019			
			7	Econometrics:	University				
				Models and	Press				
				Methods					
		3.	Tsay, R.S.	Analysis of	John Wiley,	2010			
				Financial Time	New York				
22.				Series, 3rd ed.					
	22.2.	Additional literature							
		No.	Author	Title	Publisher	Year			
		1.	Asteriou, Dimitrios	Applied	London : Red	2021			
			and S. G. Hall	Econometrics, 4th	Globe Press				
				ed					
		2.	Cox, D.R., Hinkley	Time Series	Chapman and	2020			
			D.V. and Barndorff-	Models in	Hall, London				
			Nielsen, O.E.,	Econometrics,					
				Finance and other					
		2	Milla C T	The Foor strict	Combridge	2009			
		5.	willis, C. I.	I ne Econometric	Linivorcity	2008			
				Financial Time	Press				
				Series. 3rd ed	Cambridge				