Annex No. 3		Second Cycle Studies Course Programme							
1.	Course Title	Quantitative methods for financial management							
2.	Code	CFM520	CFM520						
3.	Study programme	Corporate financial management							
4.	Organizer of the study	Ss. Cyril and Methodius University in Skopje							
	programme (university	Faculty of Economics - Skopje							
	unit i.e. institute, chair,	Chair of Corporate financial management							
	department)								
5.	Level (first, second,	Second cycle							
	third cycle)								
6.	Academic year /	2022-2023	7.	Number	of ECTS	6			
	semester	(winter		credits					
		semester							
8.	Professor	Prof. Violeta Cv	Cvetkoska, PhD						
9.	Preconditions for	Completed the first cycle of studies with at least 240 credits							
	enrolment								
10.	Course Objectives (Con	apetencies):							
	After taking this course,	, students should be able to:							
	<ul> <li>apply the phase</li> </ul>	s of the approach to quantitative analysis in solving problems in							
	the field of cor	porate financial management.							
	- use various stat	istical, optimization, and multi-criteria methods and techniques							
	for analyzing fi	nancial problems.							
	- use the leading	non-parametric data envelopment analysis methodology to							
	assess corporat	e performance.							
	- develop spread	sheet models using real data sets							
	- use software to	ols for data analysis modeling and visualization							
	- to interpret the	obtained solutions in a wider context of the specific problem							
	and to use the obtained knowledge to make better decisions								
11.	Course content:								
	1. The role of quantitativ	e analysis in corporate financial management							
	2. Financial analysis usir	g spreadsheets							
	3. Modeling and visualiz	ation of financial data							
	4. Data mining								
	5. Prediction methods an	d techniques							
	6. Measuring the perform	nance of organizations with data analysis							
	7. Simulation modeling								
	8. Multi-criteria decision	making							
12.	Learning methods: lectu	ires with presentations, videos, laboratory sessions, interactive case							
	studies, quizzes, guest le	cturers, project de	velopment, stuc	lent prese	ntations				
13.	Total hours	6 ECTS x 30 classes = 180 classes							
14.	Allocation of hours per	24+16+40+10+90= 180 classes							
	activity								
15.	Types of teaching	15.1.	Lectures		24 classes				
	activates	15.2.	Exercises (laboratory), Seminars, 16 classes			16 classes			
			teamwork						
16.	Other types of	16.1.	Project tasks		40 classes				
	activities	16.2.	Individual tasks		10 classes				
		16.3	Homework		90 classes				
17.			Grading method: 60+30+10=100 points						
	17.1.	Tests				60%			
	17.2.	individual work / project (presentation:			30 %				
		written and oral)							

	17.3.		Attendance and c	lass 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	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 methodInternal evaluation and s			survey					
	Literature								
		Compulsory literature							
	22.1.	No.	Author	Title	Publisher	Year			
		1.	Render, B.,	Quantitative Analysis	Pearson	2017			
			Stair, R. M.	for Management (13th					
			Jr., Hanna, M.	ed.)					
			E. and Hale,						
			T. S.						
		2.	Цветкоска, В.	Примена на	Магор ДОО	2018			
				повекекритериумски	Скопје				
				методи во					
				банкарството					
22.		Addit	ional literature	literature					
	22.2.	No.	Author	Title	Publisher	Year			
		1.	Mu, E. and	Practical Decision	Springer	2017			
			Pereyra-	Making: An	1 0				
			Rojas, M.	Introduction to the					
				Analytic Hierarchy					
				Process (AHP) Using					
				Super Decisions v2					
		2.	Cooper,	Data Envelopment	Springer	2007			
			W.W.,	Analysis: A					
			Seiford,	Comprehensive Text					
			L. M. and Topa K	With Models,					
			1011C, K.	References and DEA					
				Solver-Software	ί <b>Λ</b>				
				boliver bolitimate					