	Subject program of the second cycle of studies											
1.	Title of the teaching course Business Analytics											
2.	Code	MGT-523										
3.	Study program	MBA Management										
4.	Organizer of the study program		Methodius University in Skopje									
	(unit, i.e., institute, department)	Faculty of Economics - Skopje										
5.	Degree (cycle of studies)	Second cycle										
6.	Academic year/semester	2022/23-2	7. Number of ECTS 6									
8.	Professor		leta Cvetkoska									
9.	Prerequisites for enrolling in the											
)·	course	First cycle of studies completed with at least 240 credits										
10.	Objectives of the subject program	(competencies)·									
10.												
	•	ion of the course, students will be able to:										
	_	to understand the power of data and find opportunity in the numbers that they will use to generate a										
	competitive advantage for the business organization.											
	2. to understand how to analyze, model, and visualize data to solve business problems faced by											
	business organizations.											
	3. to use popular analytical methods and techniques to support managerial decision-making.											
	4. skillfully use known software tools to solve real and complex business problems.											
11.	Content of the subject program:											
11.		iates the need	to apply business analytics in organizations to									
			titive advantage. Business analytics as an area of									
			on of data into insights based on which managers									
			nalytics are based on four pillars (descriptive,									
	diagnostic, predictive, and prescriptive analytics), which will be our subject of study with a special focus on their most popular methods and techniques. The aim of this course is for students to											
	• •		· ·									
	analyze, model, and visualize real data sets with extensive application of software tools and to interpret the obtained results in a suitable business context.											
	1. Overview of business analytics											
	2. Creating value from data		inalytics									
	3. Analytics using spreadshe											
	4. Data exploration with pive											
	5. Visualizing data with Power BI Desktop											
	6. Drill-down analysis											
	7. Forecasting techniques											
	8. Data mining											
	9. Business simulation: Mon	soonSIM										
	10. Decision analysis											
	11. Optimization techniques											
12.	Learning methods (example methods)	ods): lectures v	vith presentations, videos, lab sessions, interactive									
	case studies, quizzes, guest lecturers, student presentations, MoonsoonSIM gamification											
	Software packages:											
	1. Excel and Excel add-ins (Analysis ToolPak and Solver (install by using the File tab											
	(Options-Add-ins and check Analysis ToolPak and Solver) so they will show up in the Data											
	Tab; StatTools (available	Tab; StatTools (available at: https://www.palisade.com/stattools/default.asp (free 15 day										
	trial versions)											
	2. Power BI Desktop (available at: https://powerbi.microsoft.com/en-us/desktop/ (free version)											
	Platform for business simulation and gamification:											
	1. MonsoonSIM (http://www	•										
13.	Total amount of time available		$6 ECTS \times 25 classes = 150 classes$									

40+10+100 = 150 classes

14.

Allocation of available time

15.	Forms of teaching activities		15	.1.	Lectures-theoretica		40			
	g			15	.2.	Tutorials (laborator				
						classroom), semina				
						teamwork	,			
16.	Other forms of activities			16	5.1.	Project tasks		30		
				16	5.2.	Independent tasks	30			
					5.3.	Home study	me study			
17.	Method of assessi	ment		00 point	S					
	17.1.	Te	Tests 60 points							
	17.2. Seminar work			rk/proje	rk/project (presentation: written and oral)			30 points		
	17.3.					* U · ·				
18.	Evaluation criteri	a	less than 60 points					10 points 5 (five) (F)		
					from 61 to 68 point		6 (six) (E)			
						from 69 to 76 point			even) (D)	
			from 77 to 84 points					8 (eight) (C)		
			from 85 to 92 points						9 (nine) (B)	
						from 93 to 100 point	10 (ten) (A)			
19.	Signature require	ments a	•							
	passing the final e	exam								
20.	Language of instr	uction								
21.										
	quality of teachin	g								
22.	Literature									
	22.1.	Requi	Required literature							
		No.				Title Publisher			Year	
		1.				Business Analytics (in prepara		n)	2022	
	22.2.	Additi	Additional literature							
		No. Author					Publisher Year		Year	
		1		Cochran, J. J. (ed.) Davenport, T. H. and Harris, J.		INFORMS	Wiley		2019	
			(ed.)			Analytics Body of				
						Knowledge				
		2.				Competing on		ısiness	2017	
			and Har			Analytics: The Review Pro				
						New Science of				
			.		1	Winning	GD G 5		2012	
		3.	Liebow	itz, J. (e	ed.)	Big Data and	CRC Press		2013	
						Business Analytics				