1.	Course title	Calculus 2/Mathematics 2	
2.	Course code		
3.	Study program	AIS, CSE, CNT, EI, ICE	
4.	Unit offering the course	**FCSE**	
5.	Undergraduate/postgraduate/PhD	**Undergraduate**	
6.	Year/semester 1/Summer/Compulsory	7. ECTS: **6**	
8.	Teacher(s)	Prof. Smile Markovski Prof. Verica Bakeva Asst. Prof. Vesna Dimitrova	
9.	Course prerequisites	Signature from Calculus 1/Mathematics 1	
10.	Goals (competences): This course is a support course. It introduces the terms of an integral in functions with one variable, functions with multiple variables, partial derivates and double integrals.		
11.	Course content: Integration: Indefinite integral, Integration by substitution, definite integral, Fundamental theorem of integral calculus. Integration techniques: integration by parts, trigonometric substitution, integration of fractions. Application of integrals in: area, volume, arc length and rotation area calculation. Arrays and series. Functions with multiple variables. Partial derivates. Double integrals and their application.		
12.	Teaching methods: The new terms, properties and techniques are being learned with self study; solving given problems and exercise problems; making a project assignment.		
13.	Total available time	6 ECTS x 30 hours = 180 hours	
14.	Distribution of the available time	45+45+45+45 = 180 hours	

15.	Teaching activities	15.1.	Lectures	45 hours
		15.2.	Training (labs, problem solving), seminar and team work	30+15 hours
16.	Other activities	16.1.	Project work	
		16.2.	Self study	45 hours
		16.3.	Home work	45 hours

17.	Grading		
	17.1.	Tests	80 points
	17.2.	Seminar work/project (written or oral presentation)	
	17.3.	Active participation	20 points

18.	Grading criteria	to 49 points	5 (five) (F)
		from 50 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.	Final exam prerequisites	Tests: Minimum 20 points Active participation: Minimum 10 points
20.	Course language	Macedonian and English
21.	Quality assurance methods	Internal evaluation mechanisms supported by student polls

22.	Literature					
		Mandatory				
	22.1.	No.	Authors	Title	Publisher	Year
		1.	H.Anton, I.Biven, S.Davis	*Calculus*	John Willey & Sons, Inc.	2002
		2.				
		3.				
		Compulsory				
	22.2.	No.	Authors	Title	Publisher	Year
		1.	Robert Ellis, Denny Gulick	*Calculus with analytic geometry*	Harcourt Brace Jovanovich Publishers	1990
		2.				
		3.				