

1.	Course Title	Calculus 2		
2.	Code	F18L1S034		
3.	Study program	Software engineering and information systems		
4.	Study Program Organizer	Faculty of Computer Science and Engineering		
5.	Degree (first, second, third cycle)	first cycle		
6.	Academic year / semester 1 / summer / optional	7. ECTS credits 6		
8.	Teacher	full professor Verica Bakeva, assistant professor Simona Samardzhiska, assistant professor Vesna Dimitrievska Ristovska, assistant professor Biljana Tojtovska, assistant professor Aleksandra Popovska Mitrovikj		
9.	Course enrollment prerequisites			
10.	Course program goals (competencies): This course is a support course. It introduces the terms of an integrals, application of integrals, sequences and series which are important for advanced courses.			
11.	Course program content: Integration: Indefinite integral, Integration by substitution. Definite integral. Fundamental theorem of integral calculus. Integration techniques: integration by parts, trigonometric integrals, trigonometric substitution, integration of fractions. Application of integrals in computing: area, volume, arc length and rotation area. Arrays and series. Differential equations: solving equation by separation of variables, first-order linear differential equations, second-order homogeneous and non-homogeneous differential equations.			
12.	Learning methods: Lectures using presentations, interactive lectures, exercises (using equipment and software packages), teamwork, case studies, invited guest lecturers, independent preparation and defense of a project assignment and seminar work.			
13.	Total available time	6 ECTS x 30 hours = 180 hours		
14.	Distribution of the available time	45 + 45 + 0 + 10 + 80 = 180 hours		
15.	Teaching activity forms	15.1.	Lectures – theoretical teaching	45 hours
		15.2.	Exercises (laboratory, auditory), seminar papers, teamwork	45 hours

16.	Other activity forms		16.1.	Project Tasks	0 hours	
			16.2.	Independent Learning Tasks	10 hours	
			16.3.	Home learning	80 hours	
17.	Assessment methodology					
	17.1.	Tests			0 points	
	17.2.	Seminar paper/project (presentation: written and oral)			0 points	
	17.3.	Activity and learning			0 points	
	17.4.	Final exam			100 points	
18.	Assessment criteria (points/grade)		up to 50 points		5 (five) (F)	
			51 to 60 points		6 (six) (E)	
			61 to 70 points		7 (seven) (D)	
			71 to 80 points		8 (eight) (C)	
			81 to 90 points		9 (nine) (B)	
			91 to 100 points		10 (ten) (A)	
19.	Course completion and final exam requirements		Realized activities 15.1 and 15.2			
20.	Teaching Language		Macedonian and English			
21.	Teaching quality evaluation method		Internal evaluation mechanisms and questionnaires			
22.	Course Material					
	22.1.	Mandatory course material				
		No	Author	Title	Publisher	Year
		1	H.Anton, I.Bivens, S.Davis	Calculus	John Willey & Sons, Inc.	2012
	22.2.	Additional course material				
		No.	Author	Title	Publisher	Year

