
		UNIVERSITY OF EAST SARAJEVO Faculty of Philosophy					
		Study programs: Mathematics and informatics, Mathematics and Physics					
		Bachelor		I - year of studies			
Full course title		Analysis 2					
Chair		Department of Mathematics - Faculty of Philosophy					
Course code		Status		Semester		ECTS	
MP2-1		O		II		9	
Lecturer/s		Assoc. Prof. Vladimir Vladicic, PhD					
Teaching assistant/s		Jelena Radovic					
Number of classes / teaching workload (weekly)			Individual workload (number of hours per semester)			Individual workload coefficient S_0^1	
L	AE	LE	L	AE	LE	S_0	
4	4	0	84	84	0	1.4	
total teaching workload (number of hours per semester)				total individual workload (number of hours per semester)			
120				168			
Total course workload (teaching + individual): 120+168=288 hours per semester							
Learning outcomes		<ol style="list-style-type: none"> 1. Applications of the derivative real functions. 2. Introduction to Riemann integral. 3. Determination of the Riemann integral of the Elementary functions. 4. Introduction to Series of the real numbers. 					
Requirements		No					
Teaching methodology		lecture, exercise and application					
Course content (by week)		<ol style="list-style-type: none"> 1. Basic theorems for Differentiation. 2. Taylor formula. 3. Graphs of the Elementary functions. 4. Indefinite integrals. Linearity. Integration by Parts. Substitution. 5. Indefinite integral of the Rational functions. 6. Indefinite integral of the Irrational functions. 7. Indefinite integral of the Trigonometric functions. 8. Riemann integral. Definition and properties. 9. Newton-Leibniz formula 10. Basic theorems of the Riemann integral. 11. Applications of the Riemann integral in geometry. 12. Applications of the Riemann integral in geometry. 13. Improper integral. 14. Series of the positive real numbers. 15. Series of the real numbers. 					
Compulsory reading list							
Author		Title, publisher			Year	Pages (from-to)	
W.Rudin.		Principles of Mathematical Analysis			1976	103--200	
Complementary reading list							
Author/s		Title, publisher			Year	Pages (from-to)	
Obligations, forms of assessment		Types of student work evaluation			Points	Percentage	
		Pre-exam obligations					

and grading	e.g. attendance of lectures/exercises	10	10
	e.g. test/colloquia 1	20	20
	e.g. test/colloquia 2	20	20
	Final exam		
	e.g. final exam (oral/written)	50	50
	TOTAL	100	100 %
Web page	ffuis.edu.ba		
Date of verification			