

Study program: Bachelor academic studies of Environmental Economics (BASEP)			
Type and level of studies: Bachelor academic studies, I level			
Subject name: Quantitative Methods		Subject code	601KVM
Professor: dr Svetlana Živković Radeta, assistant professor			
Subject status: Elective			
Number of ECTS points: 5			
Condition: none			
Subject goal Mastering basic mathematical concepts, which are essential for the profession, keeping in mind that the quantitative methods are the basis of any scientific calculations.			
Subject outcome The goal is to enable students to use mathematical tools in clarifying and solving problems, knowing that today, mathematical modeling is the only real way of solving scientific problems for any profession, especially ecology.			
Subject content Matrices and determinants. Systems of linear equations and solving methods. The notion of function, properties of functions, limit value of functions and continuity of functions. Derivative of a function. Derivatives of basic elementary functions, derivative table. Derivatives of higher order. Applications of differential calculus. Testing the performance of the functions. Integral calculus. Indefinite and definite integral and applications. Differential equations of first and second order. <i>Practical classes</i> Calculation exercises follow the lectures.			
Literature: 1. I. Kovačević, <i>Matematika sa zbirkom zadataka</i> , Univerzitet Singidunum, Beograd, 2012 2. O. Niklić, M. Žižović, I. Kovačević, <i>Kvantitativne metode</i> , Univerzitet Singidunum, Beograd, 2012 3. B. Boričić, M. Ivočić, <i>Matematika</i> , Ekonomski fakultet, Beograd 2012			
Number of active teaching classes			Other classes
Lectures: 2 (30)	Practical classes: 1 (15)	Other forms of classes:	
Teaching methods Lectures, calculation exercises, consultations, seminar work and homework, colloquiums, exam.			
Knowledge evaluation (maximum number of points is 100)			
Pre-exam obligations	points	Final exam	Points
Activity during lectures	10	written exam	
Practical classes	-	oral exam	30
Colloquium	60	