

<b>Study program:</b> Environmental protection			
<b>Type and level of study:</b> Bachelor academic studies			
<b>Course Title:</b> Calculus			
<b>Teacher:</b> Zorica Uzelac			
<b>Status:</b> Obligatory, semester I			
<b>ECTS:</b> 8			
<b>Prerequisite:</b> None			
<b>The goal of course</b> Course content focuses on the acquisition of the necessary knowledge of mathematics and statistics that are necessary to overcome further general and specialized subjects and practical application in preparing and solving mathematical and statistical models in certain areas of the profession.			
<b>The outcome of the subject</b> □ Student is able to create and solve mathematical and statistical models in specialized subjects in further education.			
<b>Syllabus</b> <i>Theoretical study</i> - Lectures are conducted in combination. Lectures present the theoretical part of the subject matter and typical examples that serve to facilitate understanding of the theory are exhibited. Areas to be covered: The real function of one real variable, Differential calculus, Integral calculus, Basic concepts of probability theory, Numerical characteristics of the sample and the population, Interval estimate of parameters, Test the hypothesis, Regression and correlation. <i>Practical classes</i> -			
<b>Literature</b> 1. Pap, E., Šešelja, B. & Takači, A. (1983). Matematika za biološke smerove, treće izdanje. Prirodno-matematički fakultet. Novi Sad. 2. Grbić, T., Likavec, S., Lukić, T., Pantović, J., Sladoje, N. & Teofanov, LJ. (2007). Zbirka rešenih zadataka iz Matematike I, treće izdanje. Novi Sad. 3. Adžić, N. (1998): Zbirka rešenih zadataka iz matematike za Arhitektonski odsek. Fakultet tehničkih nauka. Novi Sad. 4. <u>Essential Calculus Skills Practice Workbook with Full Solutions</u> , <u>Chris McMullen</u> , (2018) ISBN 978-1-941691-24-3			
<b>Number of lectures: 5</b>			Other Classes
Lectures: 2	Practices: 3	Other forms of teaching: Student research work:	
<b>Teaching methods:</b>			
Score (maximum 100 points)			
<b>Pre-commitments</b>	<b>Poens</b>	<b>The final exam</b>	<b>Poens</b>
Activity during lectures	5	Written exam	50
Practical classes	0	Oral examination	10
Colloquia	35		
Seminars			
<i>Total</i>	40		60