

Study programme(s): Information Technologies				
Level: Bachelor				
Course title: Analysis for Students of Informatics				
Lecturer: Dušanka Perišić				
Status: mandatory				
ECTS: 8				
Requirements: ---				
Learning objectives The aim of the course is to help students to master tools of differential and integral calculus so that they are able to use them in analyzing the functions of one real variable.				
Learning outcomes Minimum: Understanding the basic concepts of the differential and integral calculus. Desirable: Effective application of these concepts in analysis of functions of one real variable				
Syllabus <ul style="list-style-type: none"> • The concepts of function, limit values and continuity • Derivatives and their applications • Antiderivative • Integrals and their applications • Sums and Functional sums 				
Literature <ol style="list-style-type: none"> 1. Gilbert Strang. <i>RES.18-001 Calculus Online Textbook</i>. Spring 2005. Massachusetts Institute of Technology: MIT OpenCourseWare, https://ocw.mit.edu. License: Creative Commons BY-NC-SA. 2. J. Stewart, <i>Calculus, Early Transcendentals</i>, Brooks/Cole, 2008 				
Weekly teaching load				
Lectures: 3	Exercises: 3	Practical Exercises: 3	Student research: 0	Other: 0
Teaching methodology Lecture sessions and exercise sessions.				
Grading method (maximal number of points 100)				
Pre-exam obligations	points	Final exam	points	
<i>Two colloquia</i>	30+30	<i>Oral exam</i>	<i>40</i>	