

<b>Study programmes:</b> BACHELOR STUDIES - Informatics				
<b>Course name:</b> CODE M114 – Analysis 4				
<b>Lecturers:</b> Z. Kadelburg, M. Arsenović, D. Milinković, D. Kečkić, J. Katić, M. Knežević, Đ. Krtinić				
<b>Status:</b> Optional				
<b>ECTS:</b> 5				
<b>Attendance prerequisites:</b> M111, M112, M113				
<b>Course aims:</b> Acquiring additional knowledge from the Mathematical Analysis.				
<b>Course outcome:</b> The student should supplement knowledge from the Mathematical Analysis and be able to apply it.				
<b>Course content:</b> Integral with parameter. Riemann–Stieltjes integral. Fourier transform. Application of calculus in the theory of curves and surfaces and elementary mechanical interpretation. Some topics of differential equations. Asymptotic relations. Metric spaces.				
<b>Literature:</b>				
1. F. Tomas, R. L. Fini: Tomasova matematička biblija, Građevinska knjiga, 2007				
2. D. Adnađević, Z. Kadelburg: Matematička analiza 2, Matematički fakultet, Beograd 2008.				
<b>Number of hours:</b> 5	<b>Lectures:</b> 2	<b>Tutorials:</b> 3	<b>Laboratory:</b> -	<b>Research:</b> -
<b>Teaching and learning methods:</b> Frontal, tutorial and practical				
<b>Assessment (maximal 100 points)</b>				
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>		<b>points</b>
Lectures	-	Written exam		-
Exercises / Tutorials	10	Oral exam		-
Colloquia	30	Written-oral exam		60
Essay / Project	-			