

Study programmes: BACHELOR STUDIES – Mathematics			
Course name: Analysis 3B			
Lecturers: Danko Jocić, Miloš Arsenović, Đorđe Krtinić			
Status: Compulsory			
ECTS: 5			
Attendance prerequisites: Analysis 2, Analysis 3A			
Course aims: Expanding and integrating previous knowledge of mathematical analysis mathematical analysis in order to understand the fundamental principles of functional analysis.			
Course outcome: The student needs to learn the basic notions and theorems of functional analysis.			
Course content: Basic notions of functional analysis. Banach and Hilbert spaces. Linear operators on Banach and Hilbert spaces and their properties.			
Literature:			
1. M. Arsenović, M. Dostanić, D. Jocić: Teorija mere, Funkcionalna analiza, teorija operatora, Beograd 1999.			
Number of hours: 5	Lectures: 3	Tutorials: 2	Laboratory: -
Research: -			
Teaching and learning methods: Frontal / Tutorial			
Assessment (maximal 100 points)			
Course assignments	points	Final exam	points
Lectures	-	Written exam	30
Exercises / Tutorials	10	Oral exam	30
Colloquia	30	Written-oral exam	-
Essay / Project	-		