Study programmes: BACHELOR STUDIES - Mathematics	
Course name: Measure Theory and Integration	
Lecturers: Miloš Arsenović, Dragoljub Kečkić	
Status: Compulsory	
ECTS: 5	
Attendance prerequisites: Analysis 2.	
Course aims: Students acquire basic knowledge related to Lebesgue measure and Lebesgue integral in the classic framework.	
Course outcome: Students understand basic convergence theorems of Lebesgue integral.	
Course content: Measure. Outer measure. Measurable sets and Lebesgue measure. Lebesgue integral. Convergence theorems. Relationship between Lebesgue and Riemann integral.	

Literature:

1. M. Arsenović, M. Dostanić, D. Jocić: Teorija mere, funkcionalna analiza, teorija operatora, Matematički fakultet, Beograd 1998.

Number of hours: 4	**Lectures**: 2	**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	-	Oral exam	30
Colloquia	40	Written-oral exam	-
Essay / Project	-		