

Study programmes: Master – Mathematics			
Course name: Combinatorial Optimization			
Lecturers: Aleksandar Savić			
Status: Optional			
ECTS: 8			
Attendance prerequisites: No preconditions			
Course aims: Earning general and specific knowledge from Combinatorial Optimization.			
Course outcome: Knowledge of methods for solving problems in Combinatorial Optimization.			
Course content: Elements of Graph Theory and Combinatorics. Optimizational problems on graphs and nets (paths, flows, matchings, coverings). Matroids..			
Literature: Korte B., Vygen J., Combinatorial Optimization, Springer 2005. Diestel R., Graph Theory, 3rd ed. Springer-Verlag, Heidelberg 2005. Вељан Д., Комбинаторика с теоријом графова.			
Number of hours: 5	Lectures: 3	Tutorials: 2	Laboratory: - Research: -
Teaching and learning methods: Frontal / In groups / Practical / Independent research			
Assessment (maximal 100 points)			
Course assignments	points	Final exam	points
Lectures	5	Written exam	40
Exercises / Tutorials	5	Oral exam	20
Colloquia	30		
Essay / Project	-		