Study programmes: PhD – Mathematics, Applied Mathematics

Course name: Discrete optimization

Lecturers: Aleksandar Savić

Status: Optional

ECTS: 9

Attendance prerequisites: No preconditions

Course aims: Introduction to problems of discrete optimization and methods of solving them. Training of students for future independent work in discrete optimization

Course outcome: Knowledge of mathematical models of conflicts and negotiations.

Course content:
Acquiring necessary theoretical knowledgde in discrete optimization and methods for solving problems of dicrete optimization

Literature:

Korte B., Vygen J., ***Combinatorial Optimization***, Springer 2005.

Diestel R., ***Graph Theory***, 3rd ed., Springer-Verlag, Heidelber 2005.

R.G. Parker, R. L. Rardin, ***Discrete Optimization***, Academic Press, Boston.

G. I. Nemhauser, L. A. Wolsey, ***Integer and Combinatorial Optimization***, J. Willey & Sons, London 1988.

Д. Цветковић, М. Чангаловић, Ђ. Дугошија, В. Ковачевић-Вујчић, С. Симић, Ј. Вулета, ***Комбинаторна Оптимизација,*** Друштво операционих истраживача Југославије, Београд, 1996.

Number of hours: 10	**Lecures: 4**	**Research: 6**

Teaching and learning methods: Lectures, consultations, seminar works

Assessment (maximal 100 points)

Course assignments	**points**	**Final exam**	**points**
Lectures		Written exam	-
Exercises / Tutorials		Oral exam	70
Colloquia			
Essay / Project	30		