

Incoming student mobility**Name of UNIOS University Unit: Mechanical Engineering Faculty in Slavonski Brod****COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

Department or Chair within the UNIOS Unit	Department of Industrial Engineering
Study program	Mechanical Engineering
Study level	Undergraduate (bachelor)
Course title	Quantitative Methods
Course code (if any)	P 605
Language of instruction	English
Brief course description	The course includes selected chapters and methods of operational research and related optimization quantitative models. A brief introduction to statistically designed experiments and empirical quantitative models also has been given in the course. The course focuses on linear programming and special cases, the methods and techniques of problem solving as well as uses of linear programming (optimal production program, transportation problem, assignment problem, cutting stock problem, mixture problem, business association ...). There is a great emphasis on the computer support to solve optimization quantitative models and to get empirical quantitative models.
Form of teaching	Lectures and exercises
Form of assessment	Course based assessment; Written and oral exam
Number of ECTS	5
Class hours per week	2 hours of lectures + 2 hours of exercises
Minimum number of students	5
Period of realization	Winter semester
Lecturer	Assoc. Prof. Dr. Katica Šimunović