

## Incoming student mobility

UNIOS University Unit: SCHOOL OF APPLIED MATHEMATICS AND INFORMATICS

COURSES OFFERED IN FOREIGN LANGUAGE  
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

Department or Chair within the UNIOS Unit	School of Applied Mathematics and Informatics
Study program	Graduate university study programme in mathematics (Master level) Branch: <ul style="list-style-type: none"> <li>• Financial Mathematics and Statistics-elective</li> <li>• Mathematics and Computer Science-elective</li> </ul>
Study level	Graduate (master)
Course title	Convex Functions
Course code (if any)	M109
Language of instruction	English
Brief course description	Syllabus. 1. Convex sets. Definition of a convex set. Convex sets examples. Operations that preserve convexity. Generalized inequalities. Separation theorem. Dual sets. 2. Convex functions. Convex functions and characterizations. Convex functions defined on convex sets. Conjugate functions. Quasi-convex functions. Log-convex functions and log-concave functions. Convex functions and inequalities. Convexity and majorization.
Form of teaching	
Form of assessment	Lectures and exercises are mandatory. The exam consists of written and oral part, which can be taken after the completion of lectures and exercises. During semester, students can take mid-terms which can replace the written examination.
Number of ECTS	3
Class hours per week	1+1+0

## ERASMUS+

EU programme for education, training, youth and sport

Minimum number of students	
Period of realization	Summer semester
Lecturer	Mihaela Ribičić Penava