

Incoming student mobility**Name of UNIOS University Unit:** DEPARTMENT OF MATHEMATICS**COURSES OFFERED IN FOREIGN LANGUAGE
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

Department or Chair within the UNIOS Unit	Department of Mathematics
Study program	<i>Undergraduate university study programme in Mathematics</i>
Study level	Undergraduate (Bachelor)
Course title	Set Theory
Course code	M106
Language of instruction	English
Brief course description	Syllabus. 1. Axioms of the empty set, of the partitive set and of the union. Cartesian product and axiom of the pair. Set of the natural numbers and Peanno's axioms. Relations. 2. Equipotent sets. Cantor-Schroeder-Bernstein theorem. Finite and infinite sets. Countable and uncountable sets. 3. Axioms of the set theory. Axiom of choice and Zorn's lemma. Partially ordered sets and well ordered sets.
Form of teaching	Consultative teaching.
Form of assessment	Attendance at lectures and exercises is required. The exam consists of written and oral part, and can be taken after completion of lectures and exercises. During the semester students can take colloquiums that replace the written examination.
Number of ECTS	4
Class hours per week	1+1+0
Minimum number of students	

ERASMUS+

EU programme for education, training, youth and sport

Period of realization	Summer semester
Lecturer	Mihaela Ribičić Penava