

Incoming student mobility

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	Graduate Mathematics and Informatics Education Study Programme - obligatory
Study level	Graduate (master)
Course title	History of Mathematics
Course code (if any)	M117
Language of instruction	English
Brief course description	<p>Syllabus.</p> <ol style="list-style-type: none"> 1. Early mathematics: ancient Egyptian and Sumerian-Babylonian Mathematics. Ancient Greek mathematics: pre-euclidian, Euclidean and post-euclidean; mathematics in the Roman Empire. 2. Mathematics of non-European nations: India, China. Arab and European mathematician of the Middle Ages. 3. Renaissance: development of mathematical notation, the development of algebra, discovery of logarithms, applications of mathematics in physics, astronomy and art. 4. The development of mathematical analysis after the renaissance: predecessors, discovery and development of calculus; series, continuity; complex numbers. 5. Probability theory: the origin and development to axiomatization. 6. The development of geometry after the Renaissance: discovery of projective and analytic geometry, non-Euclidean geometry. The emergence of topology. 7. The development since the Renaissance algebra: beginnings of group theory, matrix theory, vector spaces, basic algebraic theorem.

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	<p>8. The development of number theory in the new century.</p> <p>9. The emergence of set theory. A short review of mathematics in the XX. Century. And the most recent outcomes.</p>
Form of teaching	Consultative teaching.
Form of assessment	Lectures are required. The exam consists of written and oral part, taken after the lectures. During semester students can write mid-terms which can replace a part of the written exam or the whole written exam. The students have to present seminar which will be assessed as well.
Number of ECTS	4
Class hours per week	3+0+0
Minimum number of students	
Period of realization	Summer semester
Lecturer	Tomislav Marošević