

Level: bachelor			
Course title: History of Mathematics (M4-19)			
Status: obligatory			
ECTS: 5			
Requirements: none			
Learning objectives Introduce students to the history and development of mathematics from ancient times to the beginning of the twentieth century, with special emphasis on the mathematical results and theories that are taught in high school and in faculty (on undergraduate studies).			
Learning outcomes <i>Minimal</i> Understanding the historical development of mathematics and the development of basic mathematical results. Understanding the role of mathematics in Mesopotamia, Ancient Greece, India, China and the Arab world of the formation of mathematics in Renaissance Europe. Understanding the emergence of modern mathematics as abstraction processes and interactions of mathematics, science and social processes. <i>Desirable</i> The successful student will be able to understand the effects of previous mathematical research on the emergence of modern mathematical terms used in secondary and higher education. Students will learn about life and work of famous mathematicians.			
Syllabus Formation and periodization mathematics. Mathematics in Egypt and Mesopotamia. Development of Greek and Hellenistic mathematics. Mathematics in China from the third to the fifteenth century, mathematics in India in the Middle Ages and mathematics in the Arab world from the eighth to the fifteenth century. Byzantine and Western medieval mathematics. Mathematical renaissance of the fifteenth and sixteenth century. The Beginnings of Algebra, Analytic Geometry and Calculus. Mathematics in the eighteenth century. The emergence and development of mathematical disciplines in the nineteenth century. The emergence of abstract mathematics in the early twentieth century.			
Weekly teaching load			Other: 0
Lectures: 3	Exercises: 1	Other forms of teaching: 0	Student research: 0