Course title: History of Mathematics

Lecturer: Rozalia Madarasz

Status: elective

ECTS: 15

Requirements: none

Learning objectives Introduction of students to the most important moments of the development of mathematics and the work of the most influential scientists during the history of mathematics.

Learning outcomes

By the end of the course, it is expected that the successful student demonstrates ability to understand relationship between various actors in the development of mathematics, ability to outline key concepts reached over time and to illustrate them through the most representative examples for a given issue.

Syllabus

Theoretical instruction: The origin of mathematics, Prehistoric mathematics, Babylonian mathematics Egyptian mathematics, Greek mathematics, Chinese mathematics, Indian mathematics, Islamic mathematics, Medieval European mathematics, Renaissance mathematics, Mathematics during the Scientific Revolution, 17th century, 18th century, Modern mathematics, 19th century, 20th century

Students research-Exercises follow lectures as topics are presented. They cover analysis of presented concepts, but also creation and presentation of seminar papers for selected fields.

Literature

- Jeremy Gray, *Plato's Ghost: The Modernist Transformation of Mathematics*, Princeton University Press, 2008.
- Bell, E. T., Men of Mathematics: The Lives and Achievements of the Great Mathematicians from Zeno to Poincare, Touchstone Book, 1986.
- Dirk J. Struik, *A Concise History of Matematics*, Dover Books on Mathematics, 1987.
- Znam, Štefan i dr., *Pogled u povijest matematike*. Tehnička knjiga, Zagreb 1989.

Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	

Teaching methodology

Teaching theoretical contents with permanent interaction with students.

Grading (maximal number of points 100)

Pre-exam requirements	points	**Final exam**	points
Colloquia	**60**	Oral exam	**40**