Study programmes: Bachelor studies – Mathematics

Course name: Mathematical Software

Lecturers: Vladica Andrejić, Ivan Dimitrijević, Tijana Šukilović, Srđan Vukmirović

Status: Optional

ECTS: 5

Attendance prerequisites: None

Course aims: The aim of this course is to introduce students to the most efficient software for obtaining and presenting mathematical contents.

Course outcome: On completion of this course students will be able to use appropriate software for symbolic calculations, numerical calculations, simulations and geometrical visualization. Students will also be able to produce mathematical documentation and visualize mathematical contents.

Course content: Software for symbolic and numerical computations. Modeling and visualization software. Geometrical visualization. The production of technical and scientific documentation. Creating slides for presentations.

Literature:

1. Aleksandar Samardžić, Goran Nenadić, Predrag Janičić: *LaTeX2ε za autore*, Beograd 2003.
2. Stephen Wolfram: *The Mathematica Book,* 5th Edition, 2003.
3. А.О.Иванов, Д.П.Илютко, Г.В.Носовский, А.А.Тужили, А.Т.Фоменко: *Компютерная геометрия: практикум,* Москва 2010.

Number of hours: 4	**Lecures: 2**	**Tutorials: 2**	**Laboratory: -**	**Research: -**

Teaching and learning methods: Frontal / Individual / Interactive / Lectures / Exercises

Assessment (maximal 100 points)

Course assignments	points	Final exam	points
Lectures	-	Written exam	-
Exercises / Tutorials	-	Oral exam	-
Colloquia	50	Written-oral exam	50
Essay / Project	-		