

APPLICATION OF SOFTWARE PACKAGES IN MATHEMATICS (ECTS 4)

COURSE SCHEDULE

Lectures and exercises - 30 hours

GENERAL AND SPECIFIC COURSE GOALS

The main goal is to introduce to the students Excel and the known open – source software packages, especially Wolfram Alpha, Maxima and R. The accepted knowledge will be applied for solving known mathematical problems from Mathematical analysis and Linear algebra with applications in economics.

	<u>General course goals</u>	<u>Specific course goals</u>
1.	Students will gain knowledge in known open-source software.	Through lectures, exercises and independent literature reading students will learn basic instructions from open – source software and apply them in solving mathematical problems and group and individual projects. Also, the students will know how to visualize and analyze the problems and obtained results.
2.	Students will develop the ability to get information from the internet	Students will be asked to search for the certain terms and problems on the internet and at the end develop the skill of independent work.
3	Besides software students will gain knowledge about new technologies in general	Students will be asked to search for the certain case studies and information about new technologies on the internet and to implement them during the classes discussing and presenting their opinions and suggestions