(Table 5.2) Course unit description

Study program: Informatics				
Type and level of studies: Undergraduate academic studies				
Course unit: Educational software				
Teacher in charge: dr Tatjana Tomović Mladenović, Associate Professor				
Language of instruction: English				
ECTS: 4				
Prerequisites:				
Semester: *Winter Semester*				
Course unit objective This course focuses on the knowledge and skills necessary for teaching mathematics in higher education. This course is designed for students interested in an academic career or teaching. Lectures include: designing exam and homework questions, incorporating histories of science, creating absorbing lectures using different software tools. The course is appropriate for both novices and those with teaching experience.				
Learning outcomes of Course unit On completion of this course, students will be skilled in using software such as: Power Point, Prosper, Beamer, Mathematics, GeoGebra as well as scaffolding strategies. They will be able to use the software in subsequent courses to prepare their seminars, scientific and teaching material.				
Course unit contents Theoretical and Practical classes Part 1: Interactive teaching, History of computers in education Part 2: How to make a presentation (Power Point, Prosper, Beamer) Part 3: Software: Mathematica and GeoGebra. Part 4. Scaffolding strategies.				
Literature • M. Hohenwarter, J. Hohenwarter, GeoGebra Help, www.geogebra.org. • J. Hohenwarter, M. Hohenwarter, Introduction to GeoGebra, www.geogebra.org • Mark S. Gockenbach, Mathematica Tutorial, SIAM, 2010 • http://www.math.mtu.edu/~msgocken/pdebook2/mathtut2.pdf				
Number of active teaching hours				
Lectures: 30	Practice: 30	Other forms of classes: mentoring system for small groups of students	Independent work:	Other classes:
Teaching methods				

Examination methods (maximum 100 points)			
Exam prerequisites	**No. of points**	**Final exam**	**No. of points**
Practical classes		Written examination	
Tests	20	Oral examination	
Homework		Other	
Seminars	60	Practical examination	20
Project			

Grading system		
Grade	**No. of points**	**Description**
10	>= 91	Excellent
9	81-90	Exceptionally good
8	71-80	Very good
7	61-70	Good
6	51-60	Passing
5	<=50	Failing