

Study program : Informatics				
Type and level of studies: Undergraduate academic studies				
Course unit: Educational software 1				
Teacher in charge : dr Tatjana Tomović, Assistant Professor				
Language of instruction: <i>English</i>				
ECTS: 5				
Prerequisites:				
Semester : <i>Winter Semester</i>				
Course unit objective				
This course focuses on the knowledge and skills necessary for teaching informatics in higher education. This course is designed for students interested in an academic career or teaching. Lectures include: designing exam and homework questions, 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, Matlab 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				
<i>Theoretical and Practical classes</i>				
<i>Part 1:</i> Interactive teaching, History of computers in education				
<i>Part 2:</i> How to make a presentation (Power Point, Prosper, Beamer)				
<i>Part 3:</i> Software: Matlab				
<i>Part 4.</i> Scaffolding strategies.				
Literature				
<ul style="list-style-type: none"> • B. Hahn, D.T. Valentine, <i>Esential MATLAB For Engineers and Scientists</i>, Published by Elsevier, Third edition, 2007. • Getting Started with Matlab, Version 2012a, The MathWorks, Inc., 2012. • Matlab Programming Fundamentals, Version 2012a, The MathWorks, Inc., 2012. • http://www.mathworks.com/help/matlab/ 				
Number of active teaching hours				Other classes
Lectures: 30	Practice: 30	Other forms of classes: <i>mentoring system for small groups of students</i>	Independent work:	
Teaching methods				
Examination methods (maximum 100 points)				
Exam prerequisites	No. of points:	Final exam	No. of points:	
Student's activity during lectures	4	oral examination		
practical classes/tests	46	practical examination	20	
Seminars/homework		seminars	30	
Project				
Other				
Grading system				
Grade	No. of points	Description		
10	91-100	Excellent		
9	81-90	Exceptionally good		
8	71-80	Very good		

7	61-70	Good
6	51-60	Passing
5	0-50	Failing

(Table 5.2) Course unit description