

<b>Level:</b> bachelor				
<b>Course title:</b> Office software – advanced course				
<b>Status:</b> elective				
<b>ECTS:</b> 6				
<b>Requirements:</b> none				
<b>Learning objectives</b> Mastering the basic principles of solving both mathematical and programming problems, algorithmic thinking and precise formulation of problems.				
<b>Learning outcomes</b> <i>Minimal:</i> A student should know the concept and basic techniques for algorithmic process of defining, solving and interpreting of programming problems. Basic programming concepts and commands. <i>Desired:</i> A student should master the advanced programming methods, observing the program execution and debugging. Solving real-life problems.				
<b>Syllabus</b> <i>Theoretical instruction</i> Using identifiers and commands. Variables, primitive data types, expressions. Loops and iterations. Error management. Stack and Heap. Arrays. Specialized software for mathematical calculations. Symbolic and numeric calculations. Graphical representation and problem solving. Applications in mathematics and physics.  <i>Practical instruction</i> Getting familiar with the concepts learned in lectures.				
<b>Weekly teaching load</b>				<b>Other:</b>
Lectures:	Exercises:	Other forms of teaching:	Student research:	