

<b>Level:</b> bachelor				
<b>Course title:</b> Mathematics II				
<b>Status:</b> elective				
<b>ECTS:</b> 5				
<b>Requirements:</b> none				
<b>Learning objectives</b> To enable students to apply mathematical knowledge of the multivariable calculus, differential equations, probability and statistics; to enable students to use computer solving in solving mathematical and appropriate chemistry contents.				
<b>Learning outcomes</b> Students should have developed: <b>General abilities:</b> basic knowledge of this field, following the literature, analysis of various solutions and choice of the most adequate one, application in practice and other subjects. <b>Subject-specific abilities:</b> advance mathematical thinking, solving advanced mathematical problems necessary for mathematical modelling process on the chemical problems.				
<b>Syllabus</b> <i>Theoretical instruction</i> <ul style="list-style-type: none"> <li>• Multivariable calculus with mathematical modelling in chemistry.</li> <li>• Ordinary differential equations with mathematical modelling in chemistry.</li> <li>• Probability and statistics with mathematical modelling in chemistry.</li> <li>• Mathematical modelling by using dynamic software.</li> </ul> <i>Practical instruction</i> Problem solving.				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	