

<b>Course title: Selected Chapters of Calculus-didactical approach</b>			
<b>Lecturers: Đurđica Takači, Ljiljana Gajić</b>			
<b>Status:</b> obligatory/elective <b>elective</b>			
<b>ECTS:</b> 15			
<b>Requirements:</b>			
<b>Course objective:</b> The aim of course is to enable students to carry out independent research in the field of education, didactic-methodical approach to Calculus contents.			
<b>The outcome of the course:</b> Students will develop the ability to apply different didactical methods and approaches to different calculus contents.			
<b>Syllabus</b> <i>Theoretical instruction</i> The field of real numbers, Functions, Limits and continuity, Derivative of a function, <a href="#">Examination</a> and the <a href="#">graphs</a> of functions, Indefinite integrals.			
<b>Suggested literature:</b>  1) Љ.Гајић Предавања из анализе 1, Симбол, Нови Сад, 2005 2) О. Хаџић, Ђ. Такачи, Математичке методе Нови Сад 2000 3) Ђ.Такачи, А. Такачи Диференцијални и интегрални рачун, Стилос Нови Сад, 1997 4) Derek Holton, The Teaching and Learning of Mathematics at University Level: An Icmi Study Springer, 2001 5) William Flannery, Calculus Without Tears: Lesson Sheets for Learning Calculus for Students from the 4th Grade Up Publisher: Berkeley Science Books 2002 6) John P. D'Angelo Douglas B. West Mathematical Thinking: Problem-Solving and Proofs 6y, Prentice Hall; December 17, 1999			
<b>Weekly teaching load</b>			Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5
<b>Teaching methodology</b> Lectures, solving problems with and without computer. Exercises and colloquiums in Computer laboratory.			
<b>Grading (maximal number of points 100)</b>			
<b>Pre-exam requirements</b>	points	<b>Final exam</b>	points
Activities during lectures	<b>4</b>	Oral exam	<b>40</b>
Practical teaching	<b>4</b>		
Colloquia	<b>52</b>		
Seminar papers			