

<b>Study programmes: PhD studies – Mathematics – Analysis and Differential equations</b>			
<b>Course name: Manifold theory</b>			
<b>Lecturers:</b> Darko Milinković			
<b>Status:</b> Optional			
<b>ECTS:</b> 9			
<b>Attendance prerequisites:</b> none			
<b>Course aims:</b> Training of the most important methods of manifold analysis.			
<b>Course outcome:</b> The student should understand well and be able to use the concepts and techniques of analysis on the manifolds.			
<b>Course content:</b> Smooth manifolds, integration of differential forms, de Rham cohomology, derivative of tensor fields, degree theory, intersection index, bundles, examples of differential operators on manifolds, applications.			
<b>Literature:</b>			
<b>В. Драговић, Д. Милинковић:</b> <i>Анализа на многострукостима.</i>			
<b>Number of hours:</b> 10	<b>Lectures:</b> 4	<b>Research:</b> 6	
<b>Teaching and learning methods:</b> Frontal, individual, research			
<b>Assessment (maximal 100 points)</b>			
<b>Course assignments</b>	points	<b>Final exam</b>	points
Lectures		Written exam	
Exercises / Tutorials	50	Oral exam	50
Colloquia		Written-oral exam	
Essay / Project		Written exam	