

<b>Study programmes:</b> PhD STUDIES - Mathematics				
<b>Course name:</b> CODE 3M177 – Geometric function theory 2				
<b>Lecturers:</b> Miodrag Mateljević, Miljan Knežević				
<b>Status:</b> Optional				
<b>ECTS:</b> 9				
<b>Attendance prerequisites:</b> No prerequisites.				
<b>Course aims:</b> Training of the most important methods of geometric function theory.				
<b>Course outcome:</b> The student should understand well and be able to use the concepts and techniques of geometric function theory.				
<b>Course content:</b> Applications of Schwarz lemma. Conformal invariants and geometry. Potential theory. Capacity. Quasiregular mappings. Riemann surfaces. Harmonic mappings and geometry.				
<b>Literature:</b>				
1. Ahlfors L., <i>Conformal invariants</i> , McGraw-Hill Book Company, 1973.				
<b>Number of hours:</b> 10	<b>Lectures:</b> 4	<b>Tutorials:</b> -	<b>Laboratory:</b> -	<b>Research:</b> 6
<b>Teaching and learning methods:</b> Frontal, tutorial and practical				
<b>Assessment (maximal 100 points)</b>				
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>		<b>points</b>
Lectures	-	Written exam		-
Exercises / Tutorials	50	Oral exam		50
Colloquia	-	Written-oral exam		-
Essay / Project	-			