

<b>Study programmes:</b> PhD studies – Mathematics – Analysis and differential equations			
<b>Course name:</b> 3M123 Interpolation of linear operators			
<b>Lecturers:</b> Danko Jocić, Đorđe Krtinić			
<b>Status:</b> Optional			
<b>ECTS:</b> 9			
<b>Attendance prerequisites:</b> -			
<b>Course aims:</b> Mastering of notions and methods of the interpolation of linear operators.			
<b>Course outcome:</b> Student should understand and be able to apply notions and techniques of the interpolation of linear operators.			
<b>Course content:</b> Banach function spaces. Rearrangement-invariant Banach function spaces. Interpolation of operators on rearrangement- invariant spaces. The classical interpolation theorems. The interpolation methods.			
<b>Literature:</b>			
1. C. Bennet and R. Sharpley, Interpolation of Operators, Academic Press, Boston, 1988.			
2. S.G. Krein, Yu.I. Petunin, E.M. Semenov, Interpolaciya Lineinyh Operatorov, Nauka, Moskva 1978.			
3. J. Bergh and J. Lofstrom, Interpolation Spaces, An Introduction, Springer, Berlin, 1976.			
<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>	<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			