

Program		Type of studies (cycle)	Third cycle		
		Name of the program	SEE Doctoral Studies in Mathematical Sciences		
Course					
Course title		Hilbert Function Spaces and Pick Interpolation			
Course code	Semester	Course status	ECTS credits	Contact hours	
	II		10	30	
Teaching staff	Teacher	Doc. Dr. Saida Sultanic			
	Other staff				
Course goals	The aim of the course is to introduce students to Hilbert function spaces and an operator theory approach to the Pick interpolation problem.				
Course content/topics					
<p>Kernels and function spaces Nevanlinna Pick interpolation problem Characterizing Kernels with the Complete Pick Property The Toeplitz-Corona theorem Beurling theorems Interpolating Sequences</p>					
LITERATURE		Grading			
<p>Agler J., McCarthy J.E.: <i>Pick Interpolation and Hilbert Function Spaces</i>, Graduate Studies in Mathematics, American Mathematical Society, 2002.</p> <p>J. Agler, Some interpolation theorems of Nevanlinna-Pick type, Preprint, 1988.</p> <p>Axler S., McCarthy J.E., Sarason D.(editors): <i>Holomorphic Spaces</i>, Mathematical Sciences Research Institute Publications, Cambridge University Press, 1998</p>			Criterion	Points	Cut-off points
		1.	Homework assignment	60	35
		2.	Project	40	20
		3	Final exam		
		Total			100