

Program		Type of studies (cycle)	Third cycle		
		Name of the program	SEE Doctoral Studies in Mathematical Sciences		
Course					
Course title		Integral Operators			
Course code	Semester	Course status	ECTS credits	Contact hours	
	I		10	30	
Teaching staff	Teacher	Doc. Dr. Saida Sultanić			
	Other staff				
Course goals	The primary aim of this course is to familiarize students with concepts and methods that are central to the area of integral operators.				
Course content/topics					
<p>Introduction to integral operators: definition and properties of integral operators</p> <p>Integral operator kernels</p> <p>Boundedness</p> <p>Compactness</p> <p>Carleman kernels</p> <p>Symmetric kernels</p> <p>Unitary equivalence</p> <p>Examples of integral operators</p>					
LITERATURE		Grading			
P.R. Halmos, V.S. Sunder: Bounded Integral Operators on L^2 Spaces, Springer-Verlag, 1978 E.M. Stein: Singular Integrals and Differentiability Properties of Functions, Princeton University Press, Princeton, New Jersey, USA, 1970			Criterion	Points	Cut-off points
		1.	Homework assignment	60	35
		2.	Project	40	20
		3.	Final exam		
		Total			100