

Program		Type of studies (cycle)	Third cycle		
		Name of the program		SEE Doctoral Studies in Mathematical Science	
Course					
Course title		Generalized functions and transformations			
Course code	Semester	Course status	ECTS credits	Contact hours	
	I		10	30	
Teaching staff	Teacher	Prof. Dr. Stevan Pilipović			
	Other staff	Prof. Dr. Arpad Takači			
Course goals	The main goal of this subject is fundamental understanding of classical and generalized operations.				
Course content/topics					
<ul style="list-style-type: none"> • Schwartz's generalized functions • Generalized operations and integral transformations • Convolution and Fourier transformation • Wave front and microlocal analysis • Ultradistributions 					
LITERATURE		Grading			
<p>L. Schwartz, Theorie des distributions, Heman Paris, 1960;</p> <p>S. Pilipović, B. Stanković, Prostori distribucija, SANU, Ogranak u Novom Sadu, Novi Sad, 2000.</p> <p>R. Carmichael, A. Kaminski, S. Pilipović, Boundary Values and Convolutiones in Ultradistribution Spaces, ISAAC Series on Analysis Applications and Computations – Vol. 1, 2007</p>			Criterion	Points	Cut-off points
		1.	Written assignment	50	25
		2.	Project		
		3.	Final exam	50	30
		Total			100