Program	Level	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	Contact hours
PMAT 640	I	Elective course	10	30
Lecturer				
Course Goals	The aim of the course is an intrinsic understanding of the relationship between classical and general operations.			

COURSE CONTENT

- Švarco's general functions
- General operations and integral transformations
- Convolution and Fury transformation
- Wave front and microlocal analysis
- Ultradistribution

LITERATURE

[1] L. Schwartz, Theorie des distributiones, Heman Paris, 1960.;
[2] S. Pilipović, B. Stanković, Prostori distribucija, SANU, Ogranak u Novom Sadu, Novi Sad, 2000.
[3] R. Carmichael, A. Kaminski, S. Pilipović, Boundary Values and Convolutiones in Ultradistribution Spaces, ISAAC Series on Analysis Applications and Computations –Vol. 1, 2007.

GRADING			REMARKS	
Criterion	Maximum points	Minimum points		
Homework	50	25		
Final exam	50	30		
T o t a l	100	55		