

Study programme(s): Mathematics AN-08				
Level: PhD studies				
Course title: Semigroups of operators				
Lecturer: Stevan Pilipović				
Status: obligatory				
ECTS: 10				
Requirements: none				
Learning objectives				
Learning of notions and assertions of semigroups of operators				
Learning outcomes				
Necessary knowledge for the vector-valued functions and Co semigroups				
Syllabus				
<i>Theoretical instruction</i>				
Co semigroups, Hille Yosida type theorems, Lumer Philips theorems. Differentiable and analytic semigroups Evolution equation				
<i>Practical instruction</i>				
Seminar work of a student				
Literature				
F. Varner, Foundation of Differential Manifolds and Lie Groups, Springer-Verlag, New York-Berlin, 1983. 272 pp				
Aubin, T., A course in differential geometry. Graduate Studies in Mathematics, 27. American Mathematical Society, Providence, RI, 2001. 184 pp				
Grosser, M., Kunzinger, M., Oberguggenberger, M., Steinbauer, R., Geometric theory of generalized functions with applications to general relativity. Mathematics and its Applications, 537. Kluwer Academic Publishers, Dordrecht, 2001. 505 pp.				
Weekly teaching load				Other:
				0
Lectures:	Exercise:	Other forms of teaching:	Student research:	
2		0	6	
Teaching methodology				
Classical lectures, exercises, students seminar works				
Grading method (maximal number of points 100)				
Pre-exam obligations	points	Written exam		50
		Oral exam		50