Course: Banach algebras and spectral theory		
Teacher(s): Snežana Živković Zlatanović, Suzana Aleksić		
Course status:	Elective	
ECTS:	12	
Prerequisites:	None	
Goal		
Mastering advanced notions and result in spectral theory.		
Outcomes		
Student can solve problems related to Banach algebras and spectra of operators on Banach and Hilbert spaces.		
Contents		
divisors of zero; spectrum Perturbation classes and ra spectrum of selfadjoint and Spectra of operators: shift operators; spectrum of indu Basics of C*-algebras.	and subalgebras.  dical, maximal ideals, commutative unitary operator.  operator, residual and continuous aced operator; semicontinuity of semicontinuity of semicontinuity.	tral radius; spectral mapping theorem; topological ve Banach algebras, spectrum of compact operator, spectrum; normal, unitar, selfadjoint and compact spectrum.
<ol> <li>С. Курепа, Функцион</li> <li>С. S. Kubrusly, Spectr</li> </ol>	ционална анализа", Научна књи нална анализа - елементи теориј al theory of bounded linear opera	е оператора, Школска књига, Загреб, 1980.
Number of classes per wee		Practical:
Methods of teaching  Group, individual, interact		, 2
Knowledge rating (max 10		

Knowledge estimation: Seminars: 30 points Final exam: 70 points