_	Level		Secon	ond cycle					
Program		of the program		Pure Mathematics, Applied Mathematics					
		1 0	COU		, 11				
Course title Functional Analysis									
Course code	Semest	er Cour	rse status		ECTS		Contact L+AE+LE)	hours	
PMAT 470	II	Mane	datory course		8	3	+2+0		
Lecturer									
Course Goals	and un	Applications of general concepts of fuctional analysis to establish conditions of existence and unicity of solutions of classical partial differential equations.							
Learning Outcomes	- Th spa - Or dif	 The ability to determine facts relating The theory of proper functions of operators and orthonormal families in Hilbert spaces Orthogonality structures on Hilbert spaces and existence of solutions of partial differential equations. Differential operators and spectar theory. 							
			COURSE C						
 Compact oper Adjoint oper Proper funct Dirichlet pro 	ator and Fr ions	redholm theor	у						
			LITERA	TURE					
[2] Abdul H	assan Sidd	iqi: Applied Fi ctional Analysi	unctional Ana	lysis, CRC, 2 , McGraw H	004 [ill, 1991		rators, Springer,	1973	
Lectures	45	Exercises	30	Individual		125	Total	200	
GRADING				REMARKS					
Criterion		Maximum points	Minimum points						
Midterm exams		60	30						
Final exam		40	25						
Total		100	55						