Study program			2	Le	Level of studies Third cycle							
			11	Ti	tle of the study program Science and mathematics education							
COURSE												
Course title Selected chapters of analysis												
Course ID			Semeste		Course status	ECTS		Contact hours				
PMAT 604 I			ř I		Elective 7 6				50			
1 10		L	ecturer in									
Lec	turers	cł	charge									
		Other lecturers										
Cou aim	ırse s											
CONTENT												
#		Teaching units						Contact hours				
	The content of the teaching process for this module is not fixedly						v formed but the	L 30	E/S 30	C		
	teacher together with students who choose this module with the aim of deepening								50	50		
	the their knowledge in the field of "Analysis" selects topics from disciplines for											
	which students express a special interest. Possible disciplines includ							lude harmonic				
	analysis (Fourier and wavelet analysis), functional analysis, at							ct operators				
	analysis, differential geometry, topological groups and modules,							p-adic analysis,				
	special functions, algebraic theory of numbers and other disc							nes.				
			I	JT	ERATURE		ASSESSMENT OF LEARNING					
The exact choice of literature depends on the choice of topics							Assessment Points Thre		reshold			
that students							method					
se T	lected f	for	study in co	ltation with the		1.	Partial exams	2	25	15		
1 d th	e follos	In:	a headings	are	ng the recommended lit	erature	2.	Seminar papers	2	25	10	
[1]	H. H	lels	elson: "Harmonic analysis", 2 nd ed., 1995					Final exam	5	50	30	
[2	ј Ү.К	atz	nelson: "A	n int	troduction to harmonic	analysis", 3 rd	4.	/T = +=1	1(FF	
ed., Cambridge Ur					rsity Press, 2004			Total			55	
[3] E. M. Stein, R. Shakarchi: "Fourier analysis. An introduction" Princeton University Press 2003												
[4]	1 E. H	leri	nández. G.	. W	eiss: "A first course of							
CRPC, 1996												
[5] H. Siddiqi: "Applied Functional Analysis", CRC, 2004												
[6]	[6] S. Fučik, J. Nečas, J. Součak, V. Souček: "Spectral Analysis											
	ot Nonlinear Operators", Springer, 1973 7. B. O'Neill:											
Elementary differential geometry", 2 nd ed., Academic Press 1997												
[7] J. A. Thorpe: "Elementary topics in differential geometry",												
	Springer 2000											
[8]	[8] Fernando Quadros Gouvea: "p-adic Numbers: An											
ΓO	19 D S Mitrinović: "Specijalne funkcije"											
[⁹]	[10] I.N. Stewart, D. O. Tall: "Algebraic Number Theory". 2 nd											
	ed., Chapman and Hall/CRC Press, 1987											
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							1					