Level of stu							Third cycle						
Study program Title of program					study		Science and mathe			ematics education			
Course title Selected chapters of comb						natorics							
Course ID			Semester Cours			atus		ECTS credits		Cor	Contact hours		
PMAT 602			<u> </u>			ective 7			60				
Lecturers			Lecturer in charge										
			Other lecturers										
Cour	rse aims	The goal is to train students to independently carry out the procedure of analyzing trace elements, familiarising themselves with the measures to be taken to prevent contamination of the sample.											
CONTENT													
#		Teaching units							Contact hours				
77			104	reacting units					L	E/	E/S C		
	- Generating functions, ordinary and exponen						ial generating functions 30)		
	with applications												
	- Polya theory of counting												
- Latin squares.													
- Hamarad's matrices.													
	- Designs. Projective and orthogonal geometri												
	- Association schemes												
	L	ERATURE	ASSESSMENT OF LEARNING										
[1]]	I.H.van Lint	Course in		Asse	essment	method	Points		Thre	shold			
	Combinatorics, Cambrige prees, 2001					Part	al exams			25		15	
[2] Beth T., Jungickel D., Lenz H. Design T					2.	Sem	inar pap	bers	25		10		
[0]	Volume 1. And	. 1007	3 Final exam			50		30					
[3] 1	Aigner M., Con	atorial Theory, Sj	4.										
	Combinatorics	Enumerative	Total				100 55			55			
[5] Merris R. Combinatorics, Wiley, 2003 Stanley R.P., Enumerative Combinatorics, Volume 1, CUP, 2011													