Program	Level		Second cycle		
	Name of the program		Pure mathematics, Applied Mathematics, Mathematics Education		

COURSE					
Course title	Selected Topics in Combinatorics				
Course code	Semester	Course status		ECTS	Contact hours (L+AE+LE)
PMAT 537	III	Elective course		7	3+2+0
Lecturer					
Course Goals	The goal is to enable students to use advanced selected areas of the combinatorics.				
Learning Outcomes	Gaining ability to use combinatorial tools.				

COURSE CONTENT
Content of this course is not fixed but the lecturer with students decides areas of combinatorics interesting to the students. The possible content include Polyas theory, Latin squares, (0,1)-matrices. Hamarad matrices.

LITERATURE
[1] J. H. Van Lint, R.M. Wilson, A course in combinatorics, Cambrige University Press, 2 edition (December 3, 2001)
[2] Peter Cmeron, Combinatorics, Topics, Techniques, Algorithms, Cambridge University Press, 1994.
[3] J.N. Nienhys, DeBrujin's combinatorics, Lecture notes, 2011.

STUDENT WORKLOAD (hours in a semester)					
Lectures	45	Tutorial	30	Individual work	100	T o t a l	175

GRADING			**REMARKS**	
Criterion	Maximum points	Minimum points		
Midterm exams	50	25		
Homework assignment				
Project				
Laboratory assignments				
Final exam	50	25		
T o t a l	100	55		