## Faculty of Science and Mathematics / MATHEMATICS / EQUATIONS OF MATHEMATICAL PHYSICS

Course:	EQUATIONS OF MATHEMATICAL PHYSICS						
Course ID	Course status	Semester	ECTS credits	<b>Lessons</b> (Lessons+Exer cises+Laboratory)			
12075	Mandatory	3	5	3+1+0			
Programs	MATHEMATICS						
Prerequisites	Information about the course can be found within the EQUATIONS OF MATHEMATICAL PHYSICS course, Masters studies, MATHEMATICS AND COMPUTER SCIENCE program.						
Aims	Information about the course can be found within the EQUATIONS OF MATHEMATICAL PHYSICS course, Masters studies, MATHEMATICS AND COMPUTER SCIENCE program.						
Learning outcomes	After the student passes this exam, he will be able to: 1. Apply the basic principles of modeling natural and social phenomena with partial differential equations 2. Adjust the coefficients of partial differential equations in accordance with the considered situation 3. Prove the existence and uniqueness of solutions of known nonlinear partial differential equations 4 Recognize the type of partial differential equation and find its numerical solution. 5. Interprets solutions of equations as a description of the natural or social phenomenon it models.						
Lecturer / Teaching assistant	Information about the course can be found within the EQUATIONS OF MATHEMATICAL PHYSICS course, Masters studies, MATHEMATICS AND COMPUTER SCIENCE program.						
Methodology	Information about the course can be found within the EQUATIONS OF MATHEMATICAL PHYSICS course, Masters studies, MATHEMATICS AND COMPUTER SCIENCE program.						
Plan and program of work							
Preparing week	Preparation and registration of the semester						
I week lectures							
I week exercises							
II week lectures							
II week exercises							
III week lectures							
III week exercises							
IV week lectures							
IV week exercises							
V week lectures							
V week exercises							
VI week lectures							
VI week exercises							
VII week lectures							
VII week exercises							
VIII week lectures							
VIII week exercises							
IX week lectures							
IX week exercises							
X week lectures							
X week exercises							
XI week lectures							
XI week exercises							
XII week lectures							
XII week exercises							
XIII week lectures							

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XIII week ex	ercises						
XIV week led	tures						
XIV week ex	ercises						
XV week lec	tures						
XV week exe	ercises						
Student wo	orkload						
Per week		Per semester					
<ul> <li>5 credits x 40/30=6 hours and 40 minuts</li> <li>3 sat(a) theoretical classes</li> <li>0 sat(a) practical classes</li> <li>1 excercises</li> <li>2 hour(s) i 40 minuts</li> <li>of independent work, including consultations</li> </ul>		Classes and final exam: 6 hour(s) i 40 minuts x 16 =106 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 6 hour(s) i 40 minuts x 2 =13 hour(s) i 20 minuts Total workload for the subject: 5 x 30=150 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 30 hour(s) i 0 minuts Workload structure: 106 hour(s) i 40 minuts (cources), 13 hour(s) i 20 minuts (preparation), 30 hour(s) i 0 minuts (additional work)					
Student obligations							
Consultations							
Literature							
Examination methods							
Special remarks							
Comment							
Grade:	F	E	D	С	В	А	
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points	