

Study programme(s): Mathematics PhD			
Level: PhD			
Course title: Linear PDEs (AN-04)			
Lecturer: Marko Ž. Nedeljkov			
Status: elective			
ECTS: 10			
Requirements: none			
Learning objectives Invite students into the theory of linear PDEs			
Learning outcomes Understanding of thh basic principles of linear PDEs analysis			
Syllabus <i>Theoretical instruction</i> Characteristics. Holmgrens Theorem , harmonic analysis with applications. Distributions, Sobolev spaces. Wave, heat, Laplace, Schroedinger equations. Energy inebral, maximum principles.			
Literature 1. J. Rauch. Partial Differential Equations, Springer 1992. 2. L.C. Evans, Partial Differential Equations, II ed, AMS 2012			
Weekly teaching load			Other: 0
Lectures: 2	Exercises :	Other forms of teaching:	Student research: 6
Teaching methodology Presentation and student solitary work			
Grading method (maximal number of points 100)			
Pre-exam obligations	points	Final exam	points
Colloquia	50	Oral exam	50