Study programmes: BACHELOR STUDIES - Mathematics

Course name: Equations of Mathematical Physics

Lecturers: Miodrag Mateljević, Miloš Arsenović, Đorđe Krtinić

Status: Compulsory

ECTS: 5

Attendance prerequisites: No prerequisites.

Course aims: Acquiring of general and specific knowledge from partial differential equations.

Course outcome: Upon completion of the course, the student has basic knowledge of partial equations. Furthermore, he understands terms from partial differential equations. It is capable of solving various types of partial differential equations (hyperbolic, parabolic and elliptic types). It is able to apply knowledge in applications to solve the problem.

Course content: Classification and canonization of the linear second order PDE.
Hyperbolic partial differential equations. Parabolic partial differential equations. Elliptic partial differential equations.

Literature:

1. J. Knežević-Miljanović, S. Janković, J. Manojlović, V. Jovanović, Parcijalne diferencijalne jednačine (teorija i zadaci), Univerzitet u Beogradu 2000.

Number of hours: 4	**Lectures**: 2	**Tutorials**: 2	**Laboratory**: -	**Research**: -

Teaching and learning methods: Frontal / Tutorial

Assessment (maximal 100 points)

Course assignments	**points**	**Final exam**	**points**
Lectures	10	Written exam	30
Exercises / Tutorials	-	Oral exam	40
Colloquia	20	Written-oral exam	-
Essay / Project	-		