Study programmes: BACHELOR STUDIES - Mathematics

Course name: Differential equations B

Lecturers: Nebojša Lažetić, Đorđe Krtinić, Darko Milinković, Jelena Katić

Status: Compulsory

ECTS: 5

Attendance prerequisites: No prerequisites.

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

Course outcome: By the end of the course, the student has basic knowledge about differential equations (ordinary, partial, etc). Furthermore, he understands notions from differential equations. He is capable for solving various types of differential equations, basic and known equations from applications. He is able to apply his knowledge in dynamicals systems and other applications in order to solve the problem.

Course content: Differential equations, boundary problems, dynamical systems and stability of solutions, partial differential equations.

Literature:

1. R. Šćepanović, J. Knežević-Miljanović, Lj. Protić, Diferencijalne jednačine, 2005.
2. S. Janković, J. Knežević-Miljanović, Diferencijalne jednačine (zadaci sa elementima teorije I deo), 2000.
3. S. Janković, J. Knežević-Miljanović, Diferencijalne jednačine II (zadaci sa elementima teorije II deo), 2003.

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	-		