Level: master

Course title: Methodology of Problem Solving

Status: obligatory

ECTS: 8

Requirements: none

Learning objectives

The study of physical laws through numerical problems.

Learning outcomes

After completing the course, students should have developed:

- General abilities: solving problems in physics and explaining the physics background of the particular problem.
- Subject-specific abilities: knowledge of the methodological approach to explaining the basic physical laws through problem solving.

Syllabus

Theoretical instruction

Treatment of particular sections of the General physics in terms of numerical problems with emphasis on students' theoretical knowledge necessary for problem solving. Solving of particular problems and the analysis of solutions obtained by different methods

Practical instruction

Independent problem solving related to various sections of physics.

Weekly teaching load				Other:
Lectures: 3	Exercises: 2	Other forms of teaching:	Student research: 1	