

Mathematical method in Physics Course Description

Faculty: Faculty of Natural Sciences

Study program: Physics

Course Title: Mathematical method in Physics

Course Credits: 6 (ECTS)

Language of Instruction: Albanian

Course Description: The subject "Mathematical Methods in Physics" is a formative discipline, similar and integrative to the characterizing disciplines. The object of this course is to enable students to use some special mathematical techniques and methods that are often used in solving many physical situations, but specifically in Quantum Physics.

Course Goals: Learn about Differential equations; Laplace's and Poisson's equation; Wave equations.

Course Requirements: The assessments which contribute to course score are listed below:

- Participation: 5 points
- Activation: 5 points
- Assignment 1: 10 points
- Assignment 2: 10 points
- Final Exam: 70 points

Grading: The above activities constitute a quantity of 100 points which are converted into the respective grades:

- 0-44 points -> grade 4;
- 45-54 points -> grade 5;
- 55-64 points -> grade 6;
- 65-74 points -> grade 7;
- 75-84 points -> grade 8;
- 85-94 points -> grade 9;
- 95-100 points -> grade 10

Course Schedule: The course extends over 15 weeks in the first semester of the second year of study. The student will have the opportunity to attend 2 hours of lectures and 2 hour of seminar per week.

Attendance:

- Lectures are optional
- Seminars should be attended to 75% (when the student participates less than 75% does not have the right to attend the exam but passes in the next season)