

Physics 1_Course Description

Faculty: Faculty of Natural Sciences

Study program: Bachelor in Physics

Course Title: Physics 1

Course Credits: 11 (ECTS)

Language of Instruction: Albanian

Course Description: The subject "General Physics 1" is one of the characteristic disciplines of the program.

The purpose of this course is to deepen the knowledge gained up to this study cycle in the field of Physics, one of the fundamental sciences of nature. In this discipline, the necessary knowledge is given for the study of one of the movements of matter, mechanical movement, as well as the basic laws of mechanics. The study of mechanical movement is carried out by analyzing it from both a kinematic and a dynamic point of view, which is done first for the material point and then for the rigid body. A special place in this study is occupied by topics dealing with mechanical energy and the laws of its conservation. The subject of this program also includes some general knowledge on the Theory of Universal Attraction, Special Theory of Relativity and Fluid Mechanics.

Course Goals: Knowledge and use of concepts and basic theoretical laws of mechanics.

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 takes place in the first semester of the first year of study for 15 weeks. Student will have the opportunity to attend 3 hours of lectures, 3 hours of seminars and 3 hours of laborators 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)
- 100% lab attendance are mandatory