

## Atomic Physics\_Course Description

**Faculty:** Faculty of Natural Sciences

**Study program:** Bachelor in Physics

**Course Title:** Atomic Physics

**Course Credits:** 5 (ECTS)

**Language of Instruction:** Albanian

**Course Description:** The object of this course is to provide basic knowledge on the physics of atoms, starting from the construction of the atom and its models in classical or quantum physics, the interaction of the atom with an electromagnetic field, the spin of the electron, the basics of atomic and molecular spectra and the characterization of levels respective energy.

**Course Goals:** This course aims, on the one hand, for students to master the issues fundamentals of quantum physics, closing the full cycle of formation in General physics, as well as, on the other hand, lay the foundations for acquisition of the future disciplines of theoretical Physics.

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

- Participation: 5 points
- Activation: 15 points
- Assignment 1: 30 points
- Assignment 2: 30 points
- Assignment 2: 20 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 third year of study for 7 weeks. Student will have the opportunity to attend 5 hours of lectures and 4 hours of seminars 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)