

## Nuclear Physics\_Course Description

**Faculty:** Faculty of Natural Sciences

**Study program:** Bachelor in Physics

**Course Title:** Nuclear Physics

**Course Credits:** 4 (ECTS)

**Language of Instruction:** Albanian

**Course Description:** The object of this course is to provide basic knowledge on Nuclear Physics and, in particular, the physics of atomic nuclei. In this course, students will be introduced to the classical and quantum characteristics of the nucleus, the phenomenon of natural radioactivity, nuclear reactions, nuclear energy, nuclear models. Also, this course will provide an introduction to elementary particles and some applications of nuclear physics.

**Course Goals:** The student becomes familiar with the problems of radiation protection and its importance of nuclear energy. Discipline of characteristic formation of the program.

**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 second semester of the third year of study for 6 weeks. Student will have the opportunity to attend 5 hours of lectures and 3 hours of seminars per 6 weeks.

**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)