

## Statistical Physics Course Description

**Faculty:** Faculty of Natural Sciences

**Study program:** Physics

**Course Title:** Statistical Physics

**Course Credits:** 7 (ECTS)

**Language of Instruction:** Albanian

**Course Description:** The subject "Statistical Physics" is an integrative formative discipline with the characteristic disciplines of the program. Through the material covered in this subject, students are given the opportunity to deepen their knowledge of thermodynamics, as well as gain new knowledge in the quantum aspects of thermodynamics. Also, students will be able to materialize the acquired knowledge in other fields, e.g. of mathematics, making them applicable in the field of physics.

**Course Goals:** Multiplicity, Dispersion, Fluctuations, absorption, Thermocapacity, Absorption, Chemical potential, Canonical distribution, The critical exponent, Phase equilibrium, Regularity parameter

**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 14 weeks in the second semester of the third year of study. The student will have the opportunity to attend 3 hours of lectures and 2 hours 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)