

Physics of Solid Materials Course Description

Faculty: Faculty of Natural Sciences

Study program: Physics

Course Title: Physics of solid materials

Course Credits: 6 (ECTS)

Language of Instruction: Albanian

Course Description: This subject aims to deepen students' knowledge about the construction of crystal structures of materials, matter-radiation interaction, thermal and magnetic properties of crystalline structures. Also part of this subject is the study of semiconductors, as a material with intermediate electrical properties. The student must have basic knowledge of the subject "General Physics" and "Mathematics", developed during the teaching process of the high school.

Course Goals: Through this program, students will deepen their knowledge in the field of solid state physics and will be further trained to materialize the knowledge gained in other fields, e.g. of the structure of matter, nuclear physics, etc.

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 ->grade4;
- 45-54points ->grade 5;
- 55-64points ->grade 6;
- 65-74points ->grade 7;
- 75-84 points ->grade 8;
- 85-94points ->grade 9;
- 95-100 points ->grade 10

Course Schedule: The course extends over 8 weeks in the second semester of the third year of study. The student will have the opportunity to attend 5 hours of lectures and 3 hour of seminar per 8 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)