

Elements of electrotechnics_Course Description

Faculty: Faculty of Natural Sciences

Study program: Bachelor in physics

Course Title: Elements of electrotechnics

Course Credits: 3 (ECTS)

Language of Instruction: Albanian

Course Description: Elements of electrotechnics it is an elective formative discipline. Through this program, students will receive general information of its applications in various fields of science and technology. This course provides the following basic knowledge:

- Irrational and logarithmic and exponential equations.
- Linear and non-linear systems.
- Differential equations with linear partial derivatives of the second order.
- Analysis of DC and AC circuits.
- Three-phase circuits.
- Electric cars, transformers, diodes and transistors

Course Goals: The course " Elements of electrotechnics " plays an important role in of its applications in various fields of science and technology

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

- Participation: 5 points
- Activation: 5 points
- Assignment: 15 points
- Laboratory: 15 points
- Final Exam: 60 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 the second semester of the third year of study. In the second semester, the student will have the opportunity to attend 2 hours of lectures, and 1 hour of laboratory 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 is mandatory