**Analog Electronics (ECTS credits: 5)**

Language: the course is offered in Serbian and Hungarian.

**Course description:**

The course covers the basic components and circuits of Analog Electronics. In the first part, electronic components are described and analyzed. In the second part, basic analog electronic circuits are introduced.

The following topics are covered:

* Lecture 1. Passive components,
* Lecture 2. Active components,
* Lecture 3. Passive circuits,
* Lecture 4. Basic logic circuits,
* Lecture 5. Basic amplifiers,
* Lecture 6. Feedback amplifiers,
* Lecture 7. Discrete and integrated implementations of amplifiers,
* Lecture 8. Nonlinear analog circuits.

**Aims:**

The goals of the course are the following:

* Students have get an understanding of electronic components' data sheets.
* They have to learn the analysis of electronic circuits by hand and to simulate their behavior on the digital computer.
* Through laboratory practice, students have to become familiar with the implementation of electronic circuits on proto-board.
* They have to learn taking measurements with a digital oscilloscope.