

Title <b>(Układy elektroniczne)</b>	Code <b>1018011410108000064</b>
Field <b>Electronics and Telecommunications</b>	Year / Semester <b>2 / 4</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: <b>2</b> Projects / seminars: -	Number of credits <b>0</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

Obligatory course for students of Electronics and Telecommunications

**Assumptions and objectives of the course:**

To provide students with the knowledge concerning modern electronic circuits. Students should be able to perform simple calculation connected with designing of basic electronic circuits with transistors and op amps.

**Contents of the course (course description):**

Amplifiers: frequency and time response. Differential amplifiers. Linear and nonlinear op amp applications. RC generators. LC generators. Tuned amplifiers. Feedback in electronic circuits. Power supplies. Analog multipliers and function networks. . Power amplifiers. Active filters. Modulators and demodulators.Noise in electronic circuits. Microwave circuits.

**Introductory courses and the required pre-knowledge:**

Basic knowledge of semiconductor devices and operational amplifiers.

**Courses form and teaching methods:**

Lectures supported by slides and laboratory projects.

**Form and terms of complete the course - requirements and assessment methods:**

Written and oral exam.

**Basic Bibliography:**

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**Additional Bibliography:**

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