

Title (Układy elektroniczne powszechnego użytku)	Code 1018421910108010115
Field Electronics and Telecommunications	Year / Semester 5 / 9
Specialty Multimedia and Consumer Electronics	Course core
Hours Lectures: 2 Classes: 2 Laboratory: 2 Projects / seminars: -	Number of credits 8
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory course for students Electronics and Telecommunication Multimedia and Consumer Electronics.

Assumptions and objectives of the course:

It aims to provide appropriate exposure to modern electronic circuits, design techniques and applications in the area of consumer electronics.

Contents of the course (course description):

Ebers-Moll model for the bipolar transistor. Power electronics: devices and selected applications. Frequency response of the bipolar and MOSFET transistor amplifiers. Low noise transistor amplifiers. Analog switches. CMOS integrated circuits in consumer electronics. Feedback in consumer electronic circuits Tuned and broadband amplifiers in radio and TV receivers. Hi-Fi power amplifiers: A, AB, D and T classes. FETs in audio amplifiers. Integrated power amplifiers. Active and SC filters in audio applications. Switching power supplies. PLL in radio and TV receivers. Quartz oscillators.

Introductory courses and the required pre-knowledge:

Basic knowledge of semiconductor devices and electronic circuits.

Courses form and teaching methods:

Lectures supported by multimedia presentations, tutorials and laboratory projects.

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

Written and oral exam, individual projects.

Basic Bibliography:

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Additional Bibliography:

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