

Title Fundamentals of Electronics	Code 1010334131010330211
Field Control Engineering and Robotics	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: 2 Projects / seminars: -	Number of credits 8
	Language polish

Lecturer:

dr inż. Jan Deskur
Instytut Automatyki i Inżynierii Informatycznej
e-mail: Jan.Deskur@put.poznan.pl

Faculty:

Faculty of Electrical Engineering
ul. Piotrowo 3A
60-965 Poznań
tel. (061) 665-2539, fax. (061) 665-2548
e-mail: office_deef@put.poznan.pl

Status of the course in the study program:

Fundamentals of Electronics

Assumptions and objectives of the course:

Knowledge concerning principles of operation of the electronic circuits.

Contents of the course (course description):

Lectures: Analysis and synthesis of digital circuits. Integrated circuits of medium- and large-scale of integration. Applications of operational amplifiers to analogue signal processing. Analogue controllers and filters. Electronic switches, S&H, DA and AD converters; switched capacitors devices. Selected problems of industrial electronics.

Laboratory: diodes, transistors, operational amplifiers, filters.

Introductory courses and the required pre-knowledge:

Basic knowledge of the theory of electric circuits

Courses form and teaching methods:

Lectures , laboratory exercises

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

Written examination, evaluation of laboratory reports .

Basic Bibliography:

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Additional Bibliography:

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