

Title Signal Processors	Code 10103222310103201123
Field Electrical Engineering	Year / Semester 2 / 3
Specialty Microcomputer Control Systems in Electrical Engineering	Course core
Hours Lectures: 2 Classes: - Laboratory: 1 Projects / seminars: 1	Number of credits 4
Language polish	

Lecturer:

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Status of the course in the study program:

Obligatory course, Faculty of Electrical Engineering, field: Electrical Engineering, speciality: Microcomputer Control Systems in Electrical Engineering.

Assumptions and objectives of the course:

Absorbing of knowledge about: architecture, basics of working and programming of digital signal processors and practical aspects of their utilization in measurement and control systems as well.

Contents of the course (course description):

Architecture of DSP. Analog Devices inc. ADSP-218X/9X families of DSP: realization of arithmetic and logic functions by DSP core, co-operation of DSP core with internal and external memory, data addressing and realization of fundamental DSP algorithms. Practical utilization of development tools.

Introductory courses and the required pre-knowledge:

Basic knowledge about: microprocessors, digital technique, programming in high and low level languages.

Courses form and teaching methods:

Lectures, laboratory experiments.

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

Written tests, laboratory examination.

Basic Bibliography:

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Additional Bibliography:

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