

Title Dynamic of Systems	Code 10103222310103201124
Field Electrotechnics	Year / Semester 2 / 3
Specialty Microprocessor Control Systems in Electrotechnics	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: 1	Number of credits 3
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:

Presentation of description analysis, synthesis and optimization methods of dynamical systems.

Contents of the course (course description):

Introduction into dynamic of systems. Description of systems with diverse physical nature. Continuous and discrete description. Identification, analysis and synthesis of linear and nonlinear, continuous and discrete systems. Observability and control ability. Stability and optimization of dynamical systems. Properties of nonlinear dynamical systems.

Introductory courses and the required pre-knowledge:

Basic knowledge with physics, mechanics and electrotechnics.

Courses form and teaching methods:

Lectures illustrated with viewgraphs.

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

Writing tests, laboratory examination.

Basic Bibliography:

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Additional Bibliography:

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