

Title Diploma Project	Code 10103242910103201404
Field Electrical Engineering	Year / Semester 5 / 9
Specialty Mechatronic Electric Systems	Course core
Hours Lectures: - Classes: - Laboratory: - Projects / seminars: 9	Number of credits 2
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Engineering, Specialty: Mechatronic Electric Systems, Extramural first-degree studies.

Assumptions and objectives of the course:

The student should obtain knowledge of the modern methods of investigation, design and analysis of actuators in automatic control, mechatronics, electromagnetic and electromechanical converters.

Contents of the course (course description):

Computer-aided design of electromagnetic and electromechanical converters. Simulation of operating conditions of chosen machines. Analysis of electromagnetic field in chosen electromagnetic devices. Measuring stands for investigation of phenomena in transformers and mechatronics actuators.

Introductory courses and the required pre-knowledge:

Knowledge of the performances and analysis of electrical machines and actuators and fundamental knowledge of the methods of CAE, CAD, CAMAC, FEM.

Courses form and teaching methods:

Project supported by computer presentations and transparencies.

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

Assessment based on current progress of task realization.

Basic Bibliography:

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Additional Bibliography:

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