

Title <b>Diploma Seminar</b>	Code <b>10103252410103201454</b>
Field <b>Electrical engineering</b>	Year / Semester <b>2 / 4</b>
Specialty -	Course <b>core</b>
Hours Lectures: - Classes: - Laboratory: - Projects / seminars: <b>18</b>	Number of credits <b>8</b>
	Language <b>polish</b>

**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 second-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. Unconventional 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

**Courses form and teaching methods:**

Seminar with lectures and presentations prepared by students

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

Valuation is based on the marks for presentation and the progress in the preparation of diploma thesis

**Basic Bibliography:**

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**Additional Bibliography:**

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