

Title <b>Diploma Project</b>	Code <b>10103222310103201283</b>
Field <b>Electrical Engineering</b>	Year / Semester <b>2 / 3</b>
Specialty <b>Mechatronic Electric Systems</b>	Course <b>core</b>
Hours Lectures: -    Classes: -    Laboratory: -    Projects / seminars: <b>1</b>	Number of credits <b>0</b>
	Language <b>polish</b>

**Lecturer:**

Dr inż. Mariusz Barański  
Dr inż. Paweł Idziak  
Dr inż. Rafał Wojciechowski  
Instytut Elektrotechniki i Elektroniki Przemysłowej  
60-965 Poznań, ul. Piotrowo 3a  
tel. +48 61 665 2388  
e-mail: Pawel.Idziak@put.poznan.pl  
Mariusz.Baranski@put.poznan.pl  
Rafal.Wojciechowski@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:**

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Engineering, Specialty: Mechatronic Electric Systems, Full-time 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. 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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