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Title Mechanics and Mechatronics	Code 1010321241010320155
Field	Year / Semester
Electrical engineering	2/4
Specialty	Course
•	core
Hours	Number of credits
Lectures: 1 Classes: - Laboratory: - Projects / seminars: -	1
	Language
	polish

Lecturer:

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Status of the course in the study program:

Obligatory subject, Electrical Engineering Faculty, field: Electrical engineering. Full-time first-degree studies

Assumptions and objectives of the course:

The student should obtain knowledge of construction and operation principle of mechatronics devices.

Contents of the course (course description):

The definition and key elements of mechatronics. Mechatronic Systems? analysis, optimization and design; examples. Electromechanical, Electrostatic, Piezoelectric, Hydraulic and Pneumatic Actuators. Microelectromechanical systems (MEMS): microsensors, microactuators, silicon technology applications. Electrostatic Microactuators.

Introductory courses and the required pre-knowledge:

Basic knowledge of physics, electrical engineering, electronics and mechanics.

Courses form and teaching methods:

Lectures supported by transparencies.

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

Tests.

Basic Bibliography:

Additional Bibliography: