

Title Electrohydraulic and electropneumatic drive and control	Code 10102222310102203235
Field Building Machines and Management	Year / Semester 2 / 3
Specialty Construction of Machines and Devices	Course elective
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Additional course at the Faculty of Mechanical Engineering and Management to the second degree studies of Mechanics.

Assumptions and objectives of the course:

Introduction to proportional control in hydraulic and pneumatic.

Contents of the course (course description):

Control actuators in servo valves and proportional valves. Proportional techniques in hydraulics and pneumatics, including valve design, static and dynamic characteristics. Control elements in proportional techniques, including valve electronics and sensors. Exploitation of hydraulic circuit and validation of oil cleanness. Filters and additional hydraulic armature.

Introductory courses and the required pre-knowledge:

Basic knowledge of hydraulics and pneumatics.

Courses form and teaching methods:

Lectures, supported by transparencies and multimedia presentations

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

Examination test. Laboratory validation.

Basic Bibliography:

Additional Bibliography: