

Name of the course: **ELECTROMECHANICAL MOTION DEVICES**

Field of study: Automatic Control and Robotics

Level of studies: undergraduate studies or postgraduate studies

Duration of the course: Lectures – 15 hours, Laboratory – 15 hours (recommended)

Conducting unit: Department of Electrical Engineering of Transport Faculty of Electrical and Control Engineering

Subject supervisor: Andrzej Wilk, Ph.D., D.Sc., Eng., Associate Professor; Teachers: Ph.D., Eng. Leszek Jarzębowicz

Scope of the course:

- Principles of electromechanical energy conversion,
- Modern motion devices for precise control of angular or linear position, velocity and acceleration,
- Stepper motors and servo motors,
- Linear motors, actuators and positioners,
- Operating characteristics of electromechanical motion devices,
- Applications of electromechanical motion devices in industry and hybrid/electric vehicles.

Properly adapted lectures for undergraduate studies or postgraduate studies.