

Title of Course	Bases of Electrotechnics and Electronics- lab		
Semester	Spring		
Teaching Hours per Course:	Total	- Lectures:	- Tutorials:
	30	30	0
ECTS Credits	2		
The content of education			
Aims of Course	The aim of teaching the subject is to obtain by students basic knowledge of simple electric circuits of direct and alternating current, operating characteristics of electric devices and drives and their control. Students learn the basics of the operation of typical sensors and actuators..		
Program	Laboratory Study of alternating current circuits with R, L, C elements. Study of the characteristics of single-stage AC amplifiers. Research on integrated operational amplifier circuits. Contactor-relay control systems. Programming LOGO drivers. Study of electromechanical characteristics of DC machines. Study of electromechanical characteristics of single-phase asynchronous motors. Automatic electric drive control systems.		
Conditions of completion	The condition for passing laboratory classes is to obtain positive marks from written tests of individual laboratory exercises.		
Teacher	Mariusz Szreder		