

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Control of electrical drives		Code 1010331251010339995
Field of study Automatic Control and Robotics	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 5
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: - Laboratory: 15 Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 2 100%
Responsible for subject / lecturer: prof. dr hab. inż. Krzysztof Zawirski email: krzysztof.zawirski@put.poznan.pl tel. 61 6652386 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		Responsible for subject / lecturer: prof. dr hab. inż. Krzysztof Zawirski email: krzysztof.zawirski@put.poznan.pl tel. 61 6652386 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Student should have knowledge in chosen branches of physics including the electricity and the magnetism and the knowledge of the theory of electric circuits.
2	Skills	Student is able to obtain information from literature, databases and other sources; has abilities of the self-education for improving qualifications and the update of professional competence
3	Social competencies	Student is aware of a need to expand his competence and readiness to undertake the cooperation in the team; has an awareness of the importance and understands other aspects of engineering activity, including its influence on the environment
Assumptions and objectives of the course: -Getting knowledge of building, operation and characteristics of the basic drives with converters		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student has a knowledge tidied up in the structure, the application and control of the automation and robotics systems - [K_W19++]		
2. Student knows and understands typical engineering technologies, knows and understands principles of the selection of servo- and measuring-testing devices - [K_W20++]		
Skills:		
1. Student is able to use models of simple electromechanical systems, as well as to use them for analysis and design automations and robotics systems - [K_U05+++]		
2. Student is able to select the kind and parameters of servo- and measuring system, control unit for the chosen application and to effect their integration in the form of the ultimate measuring-control system - [K_U17++]		
Social competencies:		
1. Student has an awareness of the need for the professional approach towards technical issues, of meticulous acquainting oneself with documentation and environmental conditions, in which devices and their elements can function - [K_K04++]]		
Assessment methods of study outcomes		
Laboratory exercises are counted independently from the lecture, based on attendance and activity in the class and reports (one per exercise group).		

