



Subject card

Subject name and code	Professional Practice, PG_00038162						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2026/2027		
Education level	first-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			6.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Controlled Electric Drives -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Daniel Kowalak				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	0	0.0		160.0		160
Subject objectives	The professional practices make possible extension captured knowledge about practical skills used in industrial conditions. The practices permit students to check captured theoretical knowledge in practical situations. The practices make possible to get to know the future employers of requirement and to adapt the competence and knowledge of student to technical problems of institution. The practices help in choice of further individual interests and the future directions of deepening of theoretical knowledge.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_U06] has the preparation necessary to work in an industrial environment, applies the principles of occupational health and safety		The student, alone, but under the supervision of those responsible at the workplace, solves tasks that are an integral part of the practice. He or she is familiar with the applicable legal regulations in the scope of design standards and OHS.			[SU3] Assessment of ability to use knowledge gained from the subject	
	[K6_W07] has basic knowledge related to control and automation systems		The student selects the devices, is able to make numerical calculations and carry out measurements on objects.			[SW1] Assessment of factual knowledge	
	[K6_U81] is able to communicate appropriately in foreign language at B2 level of the Common European Framework of Reference for Languages (CEFR) in everyday life, in academic and professional environments		The student is able to find his/her own place of professional practice, arranges the necessary administrative formalities resulting from the study programme regulations, understands the consequences of not applying legal requirements.			[SU4] Assessment of ability to use methods and tools	

Subject contents	<p>The practical training must include design, workshop and operational work in the field of electrical engineering.</p> <p>I. General technical issues</p> <ol style="list-style-type: none"> 1. Familiarizing oneself with the structure of the company and organization of work in the company. 2. Getting to know the technical processes carried out in the plant, their final products. 3. Getting to know the technological installations in the plant including the problems of power supply, control, reliability, diagnostics and environmental protection. <p>II. Maintenance and workshop works (only under the supervision of authorized people)</p> <ol style="list-style-type: none"> 1. Auxiliary works in the operation, control, repair, installation and start-up of electrical or electric power devices. 2. Auxiliary work on periodic inspections and operational measurements of electrical and power installations. 3. Auxiliary work on the maintenance, repair or replacement of electrical apparatus and devices in the following installations: electronic, heating, pneumatic, hydraulic, etc. <p>III. Work project - design</p> <ol style="list-style-type: none"> 1. Familiarise oneself with and understand the available technical documentation and operating manuals of subassemblies and devices of technological installations: electrical, power, electronic, etc. 2. Familiarise oneself with the computer systems, equipment and software used in the plant and their functions. 3. Participate in designing industrial electrical installations as well as in selecting electrical equipment in other installations. 								
Prerequisites and co-requisites	Basic knowledge of electrical engineering and electronics								
Assessment methods and criteria	<table border="1" data-bbox="448 1021 1497 1093"> <thead> <tr> <th data-bbox="448 1021 798 1055">Subject passing criteria</th> <th data-bbox="802 1021 1142 1055">Passing threshold</th> <th data-bbox="1147 1021 1497 1055">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 1061 798 1093">The signed report</td> <td data-bbox="802 1061 1142 1093">60.0%</td> <td data-bbox="1147 1061 1497 1093">100.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	The signed report	60.0%	100.0%		
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Recommended reading	<table border="1" data-bbox="448 1099 1497 1205"> <tbody> <tr> <td data-bbox="448 1099 798 1133">Basic literature</td> <td data-bbox="802 1099 1497 1133">Industrial sectors of the monthly Drives and Controls www.nis.com.pl</td> </tr> <tr> <td data-bbox="448 1140 798 1173">Supplementary literature</td> <td data-bbox="802 1140 1497 1173">None</td> </tr> <tr> <td data-bbox="448 1180 798 1205">eResources addresses</td> <td data-bbox="802 1180 1497 1205">Adresy na platformie eNauczanie:</td> </tr> </tbody> </table>	Basic literature	Industrial sectors of the monthly Drives and Controls www.nis.com.pl	Supplementary literature	None	eResources addresses	Adresy na platformie eNauczanie:		
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Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Describe the basic structure and organization of work at the factory. 2. Explain the structure of electrical power and control systems in a production plant. 3. Rules for safe performance of work in the plant under the supervision of authorized persons. 4. Describe the procedures for performing work on the repair and commissioning of electrical power devices. 5. Explain the principles of carrying out technical documentation and instructions for electrical power devices. 								
Work placement	Not applicable								