GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Professional Practice, PG_00038162						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2025		Academic year of realisation of subject	2027/2028			
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 Electric Drives And Energy Conversion -> Faculty Of Electrical And Control Engineering -> Wydziały Politechniki Gdańskiej						
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_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
[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_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

Subject contents	The practical training must include design, workshop and operational work in the field of electrical engineering. I. General technical issues 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. II. Maintenance and workshop works (only under the supervision of authorized people) 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. III. Work project - design 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	

Subject passing criteria	Passing threshold	Percentage of the final grade
The signed report	60.0%	100.0%

Recommended reading		
	Basic literature	Industrial sectors of the monthly Drives and Controls www.nis.com.pl
	Supplementary literature	None
	eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	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

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