



Subject card

Subject name and code	Professional Practice, PG_00058676						
Field of study	Hydrogen Technologies and Electromobility						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
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 Electrical Power Engineering -> 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_U11] has the ability to self-educate in order to improve professional qualifications		Is able to organize training materials necessary to solve the given engineering problems. Is aware of legal liability in the event of using sources that are not in accordance with the law.		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	[K6_K01] is aware of the need for continuous education and self-improvement in the field of the profession of an electrician and knows the possibilities of further education		Understands the need for lifelong learning and updating of knowledge. Is able to identify and use sources of knowledge. Adheres to the principles of professional ethics, demonstrates entrepreneurship and professionalism in the performance of duties.		[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U06] has the preparation necessary to work in an industrial environment, applies the principles of occupational health and safety		Possesses knowledge and skills related to the work performed.		[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		

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 installations for the production, storage and transport of hydrogen (or methane, ammonia, methanol).2. Auxiliary work on periodic inspections and operational measurements of installations for the production, storage and transport and energy use of hydrogen (or methane, ammonia, methanol)..3. Auxiliary work on the maintenance, repair or replacement of devices and installations for the production, storage, transport and energy use of hydrogen (or methane, ammonia, methanol), including for the needs of electromobility. <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 installations for the production, storage, transport and energy use of hydrogen (or methane, ammonia, methanol), including for the needs of electromobility.2. Familiarise oneself with the computer systems, equipment and software used in the plant and their functions.3. Participate in designing industrial installations and devices for the production, storage, transport and energy use of hydrogen (or methane, ammonia, methanol), including for the needs of electromobility.											
Prerequisites and co-requisites	Basic knowledge of electrical engineering, automation, control theory of industrial installations and devices for the production, storage, transport and energy use of hydrogen (or methane, ammonia, methanol), including for the needs of electromobility.											
Assessment methods and criteria	<table><tr><td>Subject passing criteria</td><td>Passing threshold</td><td>Percentage of the final grade</td></tr><tr><td>The signed report</td><td>60.0%</td><td>100.0%</td></tr></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><tr><td>Basic literature</td><td colspan="2">Order of the Rector of the Gdańsk University of Technology No. 31/2024 of August 27, 2024</td></tr><tr><td>Supplementary literature</td><td colspan="2">None</td></tr><tr><td>eResources addresses</td><td colspan="2">Podstawowe https://eia.pg.edu.pl/studenci/dziekanat/praktyki-i-staze-zawodowe - Information on the program and principles of implementing professional internships at the Faculty of Electrical Engineering and Automation at Gdańsk University of Technology, internships and placements offered by cooperating companies. Adresy na platformie eNauczanie:</td></tr></table>	Basic literature	Order of the Rector of the Gdańsk University of Technology No. 31/2024 of August 27, 2024		Supplementary literature	None		eResources addresses	Podstawowe https://eia.pg.edu.pl/studenci/dziekanat/praktyki-i-staze-zawodowe - Information on the program and principles of implementing professional internships at the Faculty of Electrical Engineering and Automation at Gdańsk University of Technology, internships and placements offered by cooperating companies. 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 industrial installations and devices for the production, storage, transport and energy use of hydrogen (or methane, ammonia, methanol), including for the needs of electromobility.5. Explain the principles for preparing technical documentation and industrial instructions for installations and devices for the production, storage, transport and energy use of hydrogen.											
Work placement	Not applicable											

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