

Subject card

Subject name and code	Professional Training, PG_00042116								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/	2022/2023		
Education level	first-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
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 Mechatronics and High Voltage Engineering -> Faculty of Electrical and Control Engineering								
Name and surname	Subject supervisor	dr inż. Daniel Kowalak							
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	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		10.0		150.0		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_K02		The student is able to effectively solve engineering problems on the basis of provided design requirements according to the applicable legal regulations.						
			The student is able to organize the training materials necessary to solve the engineering problems. He is aware of legal responsibility in case of using illegal sources.						

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Subject contents	The practical training must include design, workshop and operational work in the field of electrical engineering and power industry.						
	I. General technical issues						
	 Familiarizing oneself with the structure of the company and organization of work in the company. Getting to know the technical processes carried out in the plant, their final products. 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)						
	Auxiliary works in the operation, control, repair, installation and start-up of electrical or electric power devices.						
	Auxiliary work on periodic inspections and operational measurements of electrical and power installations.						
	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						
	mentation and operating manuals al, power, electronic, etc. are used in the plant and their selecting electrical equipment in						
Prerequisites and co-requisites	Basic knowledge of electrical engineering and electronics and mechanics.						
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 Katalog branżowy miesięcznika Napędy i Sterowanie; www,nis.com.pl Wiatr J.; Orzechowski M.: Poradnik projektanta elektryka. Medium.						
	Supplementary literature None						
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	 Describe the basic structure and organization of work at the factory. Explain the structure of electrical power and control systems in a production plant. Rules for safe performance of work in the plant under the supervision of authorized persons. Describe the procedures for performing work on the repair and commissioning of power industry devices. Explain the principles of carrying out technical documentation and instructions for power industry devices. 						
Work placement	Not applicable						

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