



Subject card

Subject name and code	Professional practice, PG_00062751						
Field of study	Technologies for Industry 5.0						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2028/2029		
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	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Institute Of Nanotechnology And Materials Engineering -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marek Augustyniak				
	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		5.0		155.0	160
Subject objectives	The student describes the chemical basis of the process carried out in a given plant. The student learns about the specifics of the functioning of a production plant. The student learns about team work						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		The student is aware of the possible impact of engineering activities on the environment, taking into account social and economic aspects. Learns to recognize the threats associated with this impact.		[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task		
	[K6_K03] effectively, clearly and unambiguously conveys information, describes activities and communicates their results and opinions of a specialist engineer using appropriate communication methods and tools		The student effectively uses knowledge and skills related to the work performed, is capable to communicate results of own work		[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills		
	[K6_K02] makes decisions independently, carries out a critical assessment of own actions and actions of managed teams, is ready to make decisions and accept responsibility for the consequences of these actions		The student is able to conduct a critical analysis of his/her own actions and the actions of the team in which he/she works		[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills		
	[K6_K01] is aware of the need to constantly update and enrich knowledge and practical skills, and improve professional, personal and social competences		The student effectively uses knowledge and skills related to the work performed.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U04] has the ability to perceive and take into account non-technical aspects (legal, economic, ethical, environmental, human factor and others) of engineering problems and tasks and create solutions that take them into account		The student is able to properly analyze the tasks assigned to him/her and is able to solve them skillfully		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		

Subject contents	<p>The aim of the internship is to improve the technological and engineering skills acquired by the student during their studies by comparing them with technological processes implemented on an industrial scale, in the conditions of a specific production plant.</p> <p>If possible, the internship should include: - learning about the organization of work in a production plant: - determining the conditions for the location of the production plant, - learning about the technologies used, the raw materials used, the origin of raw materials, the preparation of raw materials, - learning about basic equipment. - learning about the work of a production shift in one of the departments, including learning about the conditions of production in the department and the necessary documentation. - learning about the organization of the technology department. Learning about the duties of the chief technologist, including the scope of responsibility and the documentation he maintains. - solving problems according to the recommendations of the company's Internship Supervisor. - learning about selected issues related to materials management, production control, health and safety, environmental management in the production plant. - learning about the issues of automation, process control and work organization in the plant. Additionally, during the implementation of the professional practice, students will become familiar with the organizational structure, applicable legal regulations and the production structure in the selected enterprise. If possible, the practice should include familiarizing the student with: - company work regulations, regulations on occupational health and safety and on the protection of state and official secrets; - the organizational structure of the plant; - information on products, marketing activities; - the main assumptions of the quality management system and environmental protection; - the main stages of production and technological departments.</p>		
Prerequisites and co-requisites	Knowledge of basic issues related to Industry 5.0 technologies		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	certificate of completion	100.0%	50.0%
	report	60.0%	40.0%
	internship card	100.0%	10.0%
Recommended reading	Basic literature	Regulations for conducting professional internships at the Faculty of Applied Physics and Mathematics of the Gdańsk University of Technology	
		List of departmental supervisors of student internships	
		Health and safety, technological and other materials provided by the institution hosting the intern	
	Supplementary literature	n/a	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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