GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Professional practice, PG_00062751		
Field of study	Technologies for Industry 5.0		
Date of commencement of studies	October 2024	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	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		
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_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	[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
[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_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	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice
[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	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice
[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.	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information

<table>
<tr><td>Subject contents</td><td>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.

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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge of basic issues related to Industry 5.0 technologies</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>internship card</td><td>100.0%</td><td>10.0%</td></tr>
<tr><td>report</td><td>60.0%</td><td>40.0%</td></tr>
<tr><td>certificate of completion</td><td>100.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>n/a</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
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</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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