



Subject card

Subject name and code	PRACTICE, PG_00049387						
Field of study	Chemistry						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2023/2024		
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 Organic Chemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Monika Gensicka-Kowalewska					
	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	Student describes the chemical basis of production in the plant. Student gains knowledge on functioning of the production company Student works in groups.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W04] knows and understands the general principles for the creation and development of individual forms of entrepreneurship, categories, rules and laws of economic theory, necessary to interpret today's economic problems and on the functioning of the production plant on the selected example	The student knows and is able to use the knowledge obtained during the studies			[SW1] Assessment of factual knowledge		
	[K6_U02] can work individually and in a team; he/she can assess the necessary task time and plan and organize individual work and in a small team in a way that ensures the execution of the task within a set deadline	The student is able to work individually and in a team. The student is able to plan work in a way that ensures the implementation of the task within the set deadline.			[SU1] Assessment of task fulfilment		
	[K6_K05] can identify the dilemmas (also ethical) associated with the practising of chemical engineer profession	The student is able to use the knowledge obtained during the studies and solve the dilemmas related to the performance of the profession of chemical engineer			[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U09] can recognize the danger, counteract and work with chemical reagents and basic technical apparatus in accordance with the safety regulations	The student knows and obeys the rules of health and safety			[SU4] Assessment of ability to use methods and tools		
	[K6_K06] is aware of the importance of well-thought-out activities in an entrepreneurial way	The student knows the scope and nature chemistry as a science, basic the issues it deals with chemist and the most important contemporary problems market economies.			[SK3] Assessment of ability to organize work		

Subject contents	The aim of the general apprenticeship is to improve of technological and engineering skills obtained by students in the course of studies by comparison with technological processes and questions of engineering realized on an industrial scale, in a given institution. If possible, the general apprenticeship should familiarize students with the following problems: - getting familiar with the organization of work: - the determination of location conditions, - knowledge of applied technologies, the origin and preparation of materials, - basic apparatus, - getting familiar with the shift work, production conditions and necessary documents, - getting acquainted with organization of technological section, duties of the chief technologist, - solving problems according to the recommendations of the apprenticeship supervisor. Students spend at least four weeks in the institution related to the area of study (industrial plant, R & D laboratory). In addition, during the general apprenticeship students acquaint with organizational structure, its regulations as well as the structure of production in the chosen company. If this is possible, the apprenticeship should familiarize students with the following problems: - institutional work regulations, safety and hygiene procedurs as well as the protection of state secret and confidential information; - the organizational structure of institution; - information about manufactured products and marketing; - the main foundations of system of quality management and environmental protection; - main stages of production as well as technological sections.		
Prerequisites and co-requisites	The basic knowledge of chemistry and chemistry of building materials.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Chart of apprenticeship	100.0%	10.0%
	Written report on the apprenticeship	60.0%	40.0%
	A certificate of completion	100.0%	50.0%
Recommended reading	Basic literature	The rules for the implementation of internships by students at chemical department are available at: https://chem.pg.edu.pl/dziekanat-wch/dla-studentow/praktyki-i-staz The list of cathedral tutors of student internships is available at: https://chem.pg.edu.pl/documents/614792/0d715aad-4b62-47cf-acce-a9005782525d OHS instructions, technology and other materials provided by the facility hosting the apprentice.	
	Supplementary literature	No requirements	
	eResources addresses	Adresy na platformie eNauczenie:	
Example issues/ example questions/ tasks being completed	1. Getting to know the workplace: - Location, - Organizational and production structure of the workplace. - Technologies used, raw materials used, origin of raw materials, preparation of raw materials, - apparatus, 2. Getting to know the work of a production shift in one of the departments: - Production conditions in the department, - Knowing the documentation. 3. Getting to know the organization of the technological department (chief technologist): - Responsibility of the chief technologist and technologists, - Technological issues, - Documentation. 4. Problem solving according to the recommendations of the in-house internship tutor. 5. Presentation of the task that the trainee will be able to perform independently during the internship. 6. Selected issues related to materials management, production control, health and safety rules, environmental management. 7. Getting to know the issues of automation, process control and work organization in the plant. 8. Familiarization with projects implemented by the company (in particular with projects financed from EU funds). 9. Getting to know the company's marketing activities.		
Work placement	Not applicable		