



## Subject card

Subject name and code	Practice, PG_00049381						
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering						
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			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Polymers Technology -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Radosław Pomećko					
	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	2.0		48.0		50
Subject objectives	Student describes the chemical basis of production in the plant Student gains knowlegde on functioning of the production company Student works in groups.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_K01] is ready to cultivate and disseminate models of proper behaviour in and outside the work environment; make independent decisions; critically evaluate actions of their own, teams they lead and organisations they are part of; take responsibility for results of these actions; responsibly perform professional roles, including: - observing rules of professional ethics and require it from others, - care for the achievements and traditions of the profession	Students has practical knowledge about biomedical engineering aspects.	[SK5] Assessment of ability to solve problems that arise in practice [SU2] Assessment of ability to analyse information
	[K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems	The student has the knowledge and abilities in the field of biomedical engineering.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice
	[K6_U08] while identifying and formulating specifications of engineering tasks related to the field of study and solving these tasks, can: - apply analytical, simulation and experimental methods, - notice their systemic and non-technical aspects, - make a preliminary economic assessment of suggested solutions and engineering work	The student can analyze given problems and data, to find the right the solution.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject
	[K6_K03] is ready to meet social obligations, co-organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way	The student knows the role and importance of engineer profession.	[SK5] Assessment of ability to solve problems that arise in practice
	[K6_U11] can plan and organise individual and team work	The student can prepare a detailed documentation about the work placement. The student is able to work individually and in a team.	[SK2] Assessment of progress of work [SK1] Assessment of group work skills [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
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 biomedical 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 biomedical engineering.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written report on the apprenticeship	60.0%	40.0%
	A certificate of completion	100.0%	50.0%
	Chart of apprenticeship	100.0%	10.0%
Recommended reading	Basic literature	Regulamin odbywania praktyk zawodowych Politechniki Gdańskiej, Zarządzenie Rektora nr 2/2011 z 28 stycznia 2011r. ( <a href="http://www.pg.gda.pl/chem/pl/images/stories/dokumenty_wydzialowe/reg-2011.pdf">http://www.pg.gda.pl/chem/pl/images/stories/dokumenty_wydzialowe/reg-2011.pdf</a> ) Lista katedralnych opiekunów praktyk studenckich dostępna pod adresem: <a href="http://www.pg.gda.pl/chem/pl/images/stories/dokumenty_wydzialowe/katedralni_opiekunowie_praktyk.pdf">http://www.pg.gda.pl/chem/pl/images/stories/dokumenty_wydzialowe/katedralni_opiekunowie_praktyk.pdf</a> Instrukcje BHP, technologiczne i inne materiały dostarczane przez zakład goszczący praktykanta.	
	Supplementary literature	No requirements	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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