



Subject card

Subject name and code	Quality Management in Food and Pharmaceutical Industries, PG_00037489						
Field of study	Biotechnology						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Obligatory subject group 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	5	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Chemistry, Technology and Biochemistry of Food -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Robert Tylingo				
	Teachers		dr hab. inż. Robert Tylingo				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	Getting of knowledge about the philosophy of quality and systematic approach to quality management, food safety and food quality management systems. Providing the basic information about quality systems commonly used in the pharmaceutical industry.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W10		The student has basic information about machine science, technology and bioprocess engineering in the food and pharmaceutical industry.				
	K6_U03		The student is able to perform simple synthesis of organic compounds				
	K6_U08		The student has basic information about quality systems commonly used in the food and pharmaceutical industry.				
Subject contents	The Lecture GENERAL CHARACTERISTICS OF QUALITY MANAGEMENT SYSTEMS Presentation of basic concepts like: quality, quality assurance, and quality management. Historical overview of quality systems. Quality management in a free market economy and the reasons for the implementation of quality systems related to the promotion of quality. QUALITY MANAGEMENT in the food industry. GMP and GHP principles used in the food industry. European Union regulatory requirements associated with the production and marketing of foods. Policy, implementation, and auditing of the HACCP system. Basic information related to the quality systems used in the food industry such as ISO 22000, BRC and IFS. QUALITY MANAGEMENT in the pharmaceutical industry. Defining and disseminating best practices in manufacturing (cGMP) - the legal basis, system management, and audits of the system. Responsibilities of QP (qualified persons) - the legal bases, their functions and legal responsibility. Quality control and validation processes conducted in pharmacy. CAPA system and procedures associated with it - general information.						
Prerequisites and co-requisites	Knowledge of specialist courses						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Midterm colloquium		60.0%		100.0%		

Recommended reading	Basic literature	<p>1. Wiśniewska, M. Droga przedsiębiorstwa do uzyskania certyfikatu ISO 9000: praktyczny poradnik menedżera. Ośrodek Doradztwa i Doskonalenia Kadr, Gdańsk, 2000.</p> <p>2. Kijowski J., Sikora T. Zarządzanie jakością i bezpieczeństwem żywności. WNT, Warszawa, 2003</p> <p>3. Rozporządzenie Ministra Zdrowia w sprawie wymagań Dobrej Praktyki Wytwarzania podpisane przez Ministra Zdrowia (Dz.U.06.194.1436) opublikowane 26 października 2006 roku</p>
	Supplementary literature	1. Regulation and Directive EU
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>General characteristics of quality management systems</p> <p>Quality management in the food industry. GMP and GHP principles used in the food industry. European Union regulatory requirements associated with the production and marketing of foods. Policy, implementation, and auditing of the HACCP system.</p> <p>Quality management in the pharmaceutical industry. Defining and disseminating best practices in manufacturing</p>	
Work placement	Not applicable	