

Subject card

Subject name and code	Quality management in biotechnology and related sciences , PG_00153629						
Field of study	Biotechnology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Humanistic-social subject group		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Zakład Zrównoważonego Rozwoju i Nauk o Jakości -> Katedra Strategicznego Rozwoju -> Faculty of Management -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Małgorzata Wiśniewska				
	Teachers						
Lesson types	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		5.0		5.0	25
Subject objectives	The aim is to present theoretical and practical issues concerning basic concepts, systems, methods and tools of quality management relevant to the work of a specialist in biotechnology and related fields, with particular emphasis on research laboratories, cosmetic, agri-food and pharmaceutical companies						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOTECHMU2_W07] The graduate possesses knowledge in the social sciences and humanities that is helpful in entrepreneurship and effective functioning in society, and understands the principles of responsibility in conducting scientific research, is able to interpret scientific and organizational decisions in the light of ethical, social and economic values.	He/She has knowledge of quality management, helpful in leading and managing an organization in his/her field. Understands and applies the principles of responsibility in conducting scientific research, as required by appropriate quality management systems and good practices.	[SW2] presentation/project/paper/report
	[BIOTECHMU2_K07] The graduate is aware of the importance of economic factors in the commercialization of research results. He thinks and acts in an entrepreneurial manner.	He/She is aware of the importance of economic, including managerial, organizational, systemic factors in the process of commercialization of research results and business. He thinks and acts in a managerial way, using the principles, systems and methods of quality management	[SK3] text preparation/written work
	[BIOTECHMU2_U06] The graduate is able to prepare, in a targeted manner in Polish and / or English, a written study, a scientific publication in the field of biotechnology using scientific language, including specialist terminology and conceptual apparatus.	He/She is able to prepare in a targeted manner in Polish and/or English a written study in the field of quality assurance in a biotechnological institution, using scientific language including specialized terminology and conceptual apparatus	[SU8] observation of student's independent or team work
Subject contents	<ol style="list-style-type: none"> 1. The concept of quality and its components, based on an analysis of the quality of a selected food product 2. Quality management systems, including ISO 9001 and other sectoral quality management systems or good practices (laboratory, pharmaceutical, cosmetic, agricultural) 3. Accreditation of testing laboratories; ISO 17025 and ISO 15189 standards 4. Quality policy, its role and practical use 5. Crimes that threaten quality assurance 6. Reliability, risk in process realization, risk analysis method - FMEA (Failure Mode and Effect Analysis) 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written works: Chocolate analysis report; Quality policy; FMEA report	51.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. M.Z. Wiśniewska, P. Grudowski, Culture of quality, excellence and safety in organizations, CeDeWu, Warsaw 2019. 2. M. Z. Wisniewska, Food crime as a pathology in the food market - the essence, types and an attempt at classification Management and Finance. Journal of Management and Finance. - 2017, R. 15, no. 1, pp. 127-141; 3. M. Z. Wisniewska, P. Grudowski, Quality management and innovation in light of the experience of Pomeranian organizations, Innobaltica, Gdansk 2014: 	
	Supplementary literature	n/a	
	eResources addresses		
Example issues/example questions/tasks being completed	Works prepared in accordance with the indications and templates contained in the Education Portal		
Work placement	Not applicable		

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