



Subject card

Subject name and code	Legal and Ethical Aspects of Biomedical Engineering, PG_00047807						
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
Education level	first-cycle 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	1	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Mariusz Kaczmarek					
	Teachers	dr hab. inż. Mariusz Kaczmarek prof. dr hab. inż. Jerzy Wtorek dr n. med. Marta Michowska					
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 Adresy na platformie eNauczanie:						
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	Introduction to ethical problems in medicine and in medical engineering; also to certification of medical products and instruments as well as with intellectual rights protection.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	It is ready to act in the public interest and to act in an entrepreneurial manner in the field of biomedical technologies.	[SK3] Assessment of ability to organize work
	[K6_W08] Knows and understands the fundamental dilemmas of modern civilisation and basic economic, legal and other conditions of various types of activities related to the field of study, including the basic concepts and principles in the field of industrial property and copyright protection.	He knows the legal and ethical aspects of biomedical engineering.	[SW3] Assessment of knowledge contained in written work and projects
	[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: n - observing rules of professional ethics and require it from others, n - care for the achievements and traditions of the profession	Adheres to the principles of professional ethics. Knows and understands the certification process of medical products.	[SK2] Assessment of progress of work
Subject contents	<p>Basic concepts in ethics. Ethics in business, work, corruption etc.</p> <p>Conflict situations in healthcare. Human rights and bioethics, problems in procreation and other.</p> <p>Ethics in science; clinical trials; transplantology, genetics, cloning,</p> <p>Ethics in management and healthcare.</p> <p>Intellectual property rights and patent regulations.</p> <p>Certification of medical products and instruments. Duties and rights of medical producers.</p> <p>Accreditation and quality in medical engineering.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	competent test	75.0%	50.0%
	participation in lectures	75.0%	50.0%
Recommended reading	Basic literature	Digital material of the subject	
	Supplementary literature	Materials concerning certification of medical products	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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