GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Legal and Ethical Aspects of Biomedical Engineering, PG_00047807		
Field of study	Biomedical Engineering		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2023/2024
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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Mariusz Kaczmarek	
	Teachers	dr hab. inż. Mariusz Kaczmarek	

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

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 professionn	Adheres to the principles of professional ethics. Knows and understands the certification process of medical products.	[SK2] Assessment of progress of work

<table>
<tr><td>Subject contents</td><td>Basic concepts in ethics. Ethics in business, work, corruption etc.

Conflict situations in healthcare. Human rights and bioethics, problems in procreation and other.

Ethics in science; clinical trials; transplantology, genetics, cloning,

Ethics in management and healthcare.

Intellectual property rights and patent regulations.

Certification of medical products and instruments. Duties and rights of medical producers.

Accreditation and quality in medical engineering.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>competent test</td><td>75.0%</td><td>50.0%</td></tr>
<tr><td>participation in lectures</td><td>75.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Digital material of the subject</td></tr>
<tr><td>Supplementary literature</td><td>Materials concerning certification of medical products</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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