University of Gdańsk

Subject card

Subject name and code	Ethics in science, PG_00117890		
Field of study	Oceanography		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	postgraduate 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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	academic	Assessment form	
Conducting unit			
Name and surname of lecturer (lecturers)	Subject supervisor	dr Paweł Pijas	
	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	16.0	10.0	41

Subject objectives	Acquiring or expanding knowledge in the field of ethics, philosophy of science and methodology of science enabling understanding and analysis of the ethical dimension of science: axiology and aretology in science, moral problems related to scientific research and its consequences, ethics of scientific research, codes of ethics in science.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OCEANMU2-U01] is able to formulate and solve complex and unusual problems regarding the functioning of individual components of the marine environment using knowledge from various fields and scientific disciplines and propose solutions	Proposes solutions that take into account an understanding of the socio-ethical and philosophical-worldview aspects of scientific knowledge and the institutional world of science.	[SU4] test/exam - oral or written
	[OCEANMU2-K05] is ready to follow the rules occupational health and safety, taking care of the entrusted person specialized and recognition equipment emergency situations and take appropriate action activities	The principles of occupational health and safety are interpreted from the perspective of values and principles organizing scientific knowledge.	[SK4] test/exam - oral or written
	[OCEANMU2-U09] can take part in a discussion/debate using substantive arguments, has the ability to formulate opinions based on scientific knowledge and experience and creating synthetic summaries	The opinions expressed by the student are informed by critical thinking and an in-depth look at the nature and socio-ethical dimensions of science.	[SU4] test/exam - oral or written
	[OCEANMU2-W10] knows and understands the principles of creating and developing forms of individual entrepreneurship using knowledge in the field of oceanography	The use of knowledge from the field of oceanography is accompanied by a critical assessment of the cognitive and ethical dimensions of scientific knowledge.	[SW4] test/exam - oral or written
	[OCEANMU2-K02] is ready to take full responsibility in terms of actions taken and compliance with professional ethics and principles intellectual honesty, is aware of the importance professional approach in every situation	Knows, understands and is ready to implement the epistemic and ethical rules and values that are key to good practice in science.	[SK4] test/exam - oral or written
	[OCEANMU2-K03] is ready to effectively organize his/her own work, is active and persistent and punctuality in completing tasks, is ready to carrying out evaluation of their own activities	Is aware of the values and goals that organise scientific activity and evaluates various aspects of science and his/her own work in their light.	[SK4] test/exam - oral or written
	[OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)	Knows and understands the terminology of philosophy of science, ethics of science and methodology of science in relation to his/her own field and the socio-ethical dimension of science itself.	[SW4] test/exam - oral or written
	[OCEANMU2-U02] can use scientific terminology fluently and appropriately in presenting and discussing problems in the field of oceanography	Fluently and appropriately uses terminology from the philosophy of science, ethics of science, and general methodology of science in relation to issues in oceanography and other scientific fields.	[SU4] test/exam - oral or written
	[OCEANMU2-K04] is ready to critically evaluate his/her knowledge and received content in the field of natural sciences in in particular in the field of the studied specialty, a in problematic situations, supports oneself with knowledge experts	Has a healthy distance towards scientific knowledge resulting from the perception of its entanglement in philosophical and socio-ethical issues.	[SK4] test/exam - oral or written
Subject contents	1. Elements of the methodology of science: the ambiguity of the term "science", the characteristics of scientific knowledge (goal, object, method), science and other spheres of culture (ordinary knowledge, philosophy, religion, ideology, wisdom), science and quasi-scientific fields (protoscience, pseudoscience, parascience). 2. Elements of the philosophy of science: the main problems of the philosophy of science, contemporary positions: inductivism, falsificationism/critical rationalism, relativism, methodological anarchism, realism/anti-realism. 3. Ethics: the specificity of the field (descriptive ethics and normative ethics, branches of ethics, naturalistic fallacy, moral dilemmas, moral norms and the norm of morality, models of practical ethics), the main ethical theories and their conceptual tools (utilitarianism/consequentialism, Kantianism/deontologism, virtue ethics, value ethics, personalism). 4. Ethics in science: axiology of science, ethics of scientific research, moral consequences of practicing science, aretology in science, codes of ethics in science.		

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam	51.0%	100.0%
Recommended reading	Basic literature	1. Lekka-Kowalik A., *Odkrywanie aksjologicznego wymiaru nauki*, Wydawnictwo KUL, Lublin 2008. 2. Chalmers A., *Czym jest to, co zwiemy nauką*?, tłum. Chmielewski A., Wydawnictwo Siedmioróg, Wrocław 2003. 3. Hajduk Z., *Ogólna metodologia nauk*, Wydawnictwo KUL, Lublin 2007. 4. Hajduk Z., *Metanaukowe ujęcie relacji między etyką a nauką*, "Nauka" 3/2010, s. 14-31. 5. Williams B., *Moralność. Wprowadzenie do etyki*, tłum. Hernik M., Aletheia, Warszawa 2000. 6. Mepham B., *Bioetyka*, tłum. E. Bartnik, P. Golik, J. Klimczyk, PWN, Warszawa 2008. 7. Galewicz W., *O etyce badań naukowych*, "Diametros" 19 (2009), s. 48-57.	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Explain concepts, e.g. fallibilism, inductivism. Present the main theses of a position, e.g. Kuhn's. Using the ethical theories you have learned, analyze a case, e.g. related to freedom of speech in the academic world.		
Work placement	Not applicable		

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