University of Gdańsk

Subject card

Subject name and code	Ethics in science, PG_00117768						
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		6.0		10.0	31
Subject objectives	Acquire or expand knowledge of ethics, philosophy of science and methodology of sciences to understand and analyze the ethical dimension of science: axiology and arethology in science, moral problems related to scientific research and their consequences, ethics of scientific research, ethical codes in science.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 from scientific knowledge resulting from recognizing its entanglement with philosophical and socio-ethical issues.	[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 the philosophy of science, the ethics of science and the methodology of science in relation to his own field and the social-ethical dimension of science itself.	[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 embody the epistemic and ethical principles and values central to good practice in the science	[SK4] test/exam - oral or written
	[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	offers solutions that incorporate understanding insights into the social-ethical and philosophical-worldview aspects of scientific knowledge and the institutional world of science.	[SU4] 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 adopted as a result of critical thinking and an in-depth look at the nature and social-ethical dimensions 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	interprets the principles of occupational health and safety from the perspective of the values and principles that organize scientific cognition.	[SK4] 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 oceanographic knowledge is accompanied by a critical assessment of the cognitive and ethical dimensions of scientific knowledge.	[SW4] 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 organize scientific activity and evaluates various aspects of science and his own work in light of the	[SK4] test/exam - oral or written
	[OCEANMU2-U02] can use scientific terminology fluently and appropriately in presenting and discussing problems in the field of oceanography	proficiently and appropriately applies the terminology of the philosophy of science, ethics of science and general methodology of sciences to the problems of oceanography and other scientific fields.	[SU4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>1. Elements of the methodology of sciences: ambiguity of the term science, characteristics of scientific cognition (purpose, object, method), science vs. other spheres of culture (common knowledge, philosophy, religion, ideology, wisdom), science vs. quasi-scientific fields (protoscience, pseudoscience, para-science).

2. Elements of the philosophy of science: the main problems of the philosophy of science, contemporary positions: inductionism, falsificationism/critical rationalism, relativism, methodological anarchism, realism/anti-realism.

3. Ethics: peculiarities of the field (descriptive ethics vs. normative ethics, divisions of ethics, naturalistic error, moral dilemmas, moral norms vs. moral standard, models of practical ethics), 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 doing science, arethology in science, ethical codes in science.</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>written exam</td><td>51.0%</td><td>100.0%</td></tr>
</table></td></tr>
<tr><td>Recommended reading</td><td><table>
<tr><td>Basic literature</td><td>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.</td></tr>
<tr><td>Supplementary literature</td><td>Nie dotyczy.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
</table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Nie dotyczy.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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