University of Gdańsk

Subject card

Subject name and code	Ethics in Science - lecture, PG_00204978		
Field of study	Oceanography		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	1.0
Learning profile	academic	Assessment form	credit
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	1.0	9.0	25

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-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-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

<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>test</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></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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