GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

| | | | |
|---|---|---|---|
| Subject name and code | Philosophy of Science, PG_00049197 | | |
| Field of study | Chemistry | | |
| Date of commencement of studies | October 2022 | Academic year of realisation of subject | 2022/2023 |
| Education level | first-cycle studies | Subject group | Optional subject group<br>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 | 2 | ECTS credits | 2.0 |
| Learning profile | general academic profile | Assessment form | assessment |
| Conducting unit | Department of Philosophy and Science Methodology -> Faculty of Management and Economics | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. Przemysław Parszutowicz | |
| | Teachers | dr hab. Przemysław Parszutowicz | |

**Lesson types and methods of instruction**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |

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 | 30 | 2.0 | 18.0 | 50 |

**Subject objectives**

Getting acquainted with the basic notions of philosophy. Course provides a basic introduction to the philosophical problems, focusing especially on science, philosophy of technology and philosophy of nature.

**Learning outcomes**

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [K6_K01] understands the need for lifelong learning, can inspire and organize the process of teaching other people | Student is able to evaluate the influence of the particular worldview on the reality and is able to discuss the ethical and anthropological implications of acceptance of certain epistemological view of reality. | [SK4] Assessment of communication skills, including language correctness |
| [K6_K05] can identify the dilemmas (also ethical) associated with the practising of chemical engineer profession | Student is fully aware of the axiological and metatheoretical conditioning of knowledge, is able to point at the particular rootedeness of the given interpretation of the world. | [SK5] Assessment of ability to solve problems that arise in practice |

**Subject contents**

The concept of method in philosophy; Basic problems of philosophy and the theory of cognition; Humanities and natural sciences; Positive method and its assumptions; Transcendental method and its assumptions (the problem of synthetic a priori judgements); The basis of the critical method in the philosophy of science; The specificity of scientific concepts and the principles of their construction (sciences) Specifics of scientific concepts and the principles of their construction (humanities); The problem of model, symbol and scientific experiment; Selected concepts of the philosophy of science (Popper's falsificationism, Fleck's research collectives, Kuhn's theory of scientific revolutions, Feyerabend's methodological anarchism); The problem of the Anthropocene; Science and pseudoscience - or how conspiracy theories are created.

**Prerequisites and co-requisites**

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Final exam</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>• A. Chalmers, Czym jest to, co zwiemy nauką, Wrocław 1997.<br>• M. Grabowski, Elementy filozofii nauki, Toruń 2000.<br>• Filozofia nauki i metodologia badań naukowych, Wybór tekstów źródłowych, red. M. Łojewska, Warszawa 1982.<br>• A. Miś, Filozofia współczesna: główne nurty, Warszawa 2006.<br>• Roman Murawski, Filozofia matematyki: zarys dziejów, Warszawa 1995.</td></tr>
<tr><td>Supplementary literature</td><td>• W. Tatarkiewicz, Historia filozofii, t. 3, Warszawa 2005.<br>• Przewodnik po literaturze filozoficznej XX wieku, t. 15, red. B. Skarga.</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Describe the main divisions in philosophy; Present the main principles of the positivist view of science; Discuss the main conceptions of the general methodology of science; What is methodological anarchism; Elucidate the concepts of conventionalism and falsificationism.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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