

Subject card

| Outside the second and and a | Philosophy of Science PC 00040107 | | | | | | | | |
|---|---|-----------|--|-------------------------------------|--------------|--|------------|-----|--|
| Subject name and code | Philosophy of Science, PG_00049197 | | | | | | | | |
| Field of study | Chemistry October 2020 | | | | | | | | |
| Date of commencement of studies | October 2020 | | Academic year of realisation of subject | | | 2020/2021 | | | |
| Education level | first-cycle studies | | Subject group | | | Optional subject group 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 Social Sciences and Philosophy -> Faculty of Management and Economics | | | | | | | | |
| Name and surname | Subject supervisor | ralus | | | | | | | |
| of lecturer (lecturers) | Teachers | | dr Andrzej Karalus | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | tory Project | | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 30 | |
| | E-learning hours inclu | ıded: 0.0 | | · · · · · · | | | | | |
| | Adresy na platformie eNauczanie: Filozofia przyrody - Moodle ID: 4990 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=4990 | | | | | | | | |
| Learning activity and number of study hours | | | | 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 out | come | Subject outcome Method of verification | | | | rification | | |
| | [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 | | | |
| | [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 | | | |
| Subject contents | 1. Main conceptions and concepts in philosophy; 2. Distinction between the philosophy of nature, philosophy of science and general methodology of science; 3. History of philosophy of nature: from Aristotle to Galileo and Copernicus. The idea of mathematization of nature. 4. The world-view of classical physics. Dispute between Leibniz and Newton; 5. Basic problems of general methodology of science I: positivism, Kant, conventionalism, Popper; 6. General methodology of science II: Lakatos, Kuhn, Fayerabned, Bas van Fraasen; 7. Contemporary philosophy of science: general theory of relativity and quantum mechanics; 8. Contemporary philosophy of nature: non-linear dynamics, ergodic theory and chaos theory; 9. Basic problems of philosophy of technology. Difference between technique and technology. Frankfurt School, Heidegger, ecophilosophy; 10. Science and technology in the discourse of sociology of knowledge I: classical and non-classical sociology of knowledge; 11. Science and technology in the discourse of sociology of knowledge II: actor-network theory and social studies of sience; 12. Science and technology and trhe risk society (Ulrich Beck, Anthony Giddens); 13. Phenomenology of technology: technology and daily experience; 14. Ethical dimension of science practice; 15. Philosophical status of science and technology nowadays. | | | | | | | | |
| Prerequisites and co-requisites | | | | | | | | | |
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| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
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| and criteria | Final exam | 50.0% | 100.0% | | | |
| Recommended reading | Basic literature | Michał Tempczyk, Fizyka a świat realny. Elementy filozofii fizyki, Warszawa: PWN, 1991. | | | | |
| | | Wojciech Sady, Spór o racjonalność naukową od Poincarego do Laudana, Wrocaw: Fundacja Na Rzecz Nauki polskiej, 2000; | | | | |
| | | 3. Marian Grabowski, Elementy filozofii nauki, Toruń: Wydawnictwo UMK, 2000. | | | | |
| | | 4. Alasdair MacIntyre Krótka historia etyki, Warszawa: PWN, 2000 | | | | |
| | Supplementary literature | Michał Tempczyk, Teoria chaosu dla odważnych, Warszawa: PWN, 2002. | | | | |
| | eResources addresses | Filozofia przyrody - Moodle ID: 4990 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=4990 | | | | |
| Example issues/ example questions/ tasks being completed | Describe the main divisions in philosophy; Enumerate main divisions in philosophy and main problems of ethics; Discuss the main conceptions of the general methodology of science; What philosophical interpretation of reality was developed within the classical physics; Discuss what are the fundaemntal ethical challenges and dilemmas faced by science and technology nowadays; Elucidate the concepts of conventionalism and falsificationism. | | | | | |
| Work placement | Not applicable | | | | | |

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