

Subject card

| Subject name and code | Climate change consequences, PG_00062785 | | | | | | | | |
|---|---|--|--|-------------------------------------|---------|--|--------------|-------|--|
| Field of study | Mathematics | | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2023/2024 | | | |
| Education level | second-cycle studies | | Subject group | | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | e-lear | e-learning | | |
| Year of study | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 4 | | ECTS credits | | | 2.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Energy Conversion and Storage -> Faculty of Chemistry | | | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Anna Dettlaff | | | | | | |
| | Teachers | | dr inż. Anna Dettlaff | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | :t | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | | 0.0 | 30 | |
| | E-learning hours included: 30.0 | | | | | | | | |
| | Address on the e-lear | ning platform: | https://enaucza | nie.pg.edu.pl/ı | moodle/ | course/ | view.php?id= | 19108 | |
| 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 | To familiarise students with the scientific explanation of currently occurring climate change and to familiarise students with the environmental and social consequences. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems | | The student has advanced knowledge of solutions used to reduce the impact on global warming; the student is able to search, select and critically analyze the available sources of information on climate change and to make their creative interpretation | | | [SU4] Assessment of ability to use methods and tools | | | |
| | [K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment | | The student has an extended knowledge of the phenomena, mechanisms and feedbacks occurring in the Earth's climate system | | | [SK5] Assessment of ability to solve problems that arise in practice | | | |
| | [K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications | | The student is aware of the social, economic and psychological consequences of climate change in the world | | | [SW1] Assessment of factual knowledge | | | |

Data wygenerowania: 12.04.2025 02:38 Strona 1 z 3

| Subject contents | The concept of the greenhouse effect | | | | | | | |
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| | The climate as a public good | | | | | | | |
| | The diffiale as a public good | | | | | | | |
| | Psychological consequences of climate change | | | | | | | |
| | | | | | | | | |
| | Barriers to pro-environmental behaviour | | | | | | | |
| | | | | | | | | |
| | Social and political aspects of the climate crisis | | | | | | | |
| | Climate change mythsNatural and anthropogenic causes of climate change | | | | | | | |
| | Carbon cycle in natureMechanisms and feedbacks controlling climate change | | | | | | | |
| | Environmental consequences of climate change | | | | | | | |
| | The concept of biodiversity | | | | | | | |
| | Scientific methods for assessing and monitoring climate change Scenarios for changes in temperature, sea level, precipitation Climate models Discussion of recent reports published by the Intergovernmental Panel on Climate Change Mitigation of climate change | | | | | | | |
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| Prerequisites and co-requisites | | | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | |
| and criteria | Course assessment | 60.0% | 85.0% | | | | | |
| | Quizzes during lectures | 0.0% | 15.0% | | | | | |
| Recommended reading | Basic literature | c literature Popkiewicz M., Kardaś A., Malinowski S., Nauka o Klimacie, Wydawnictwo Nieoczywiste, 2023 M. Budziszewska, A. Kardaś, Z. Bohdanowicz, Klimatyczne ABC. Interdyscyplinarne podstawy współczesnej wiedzy o zmianie klima Wydawnictwa Uniwersytetu Warszawskiego, 2023 | | | | | | |
| | | | | | | | | |
| | Supplementary literature | Thunberg G., Książka o klimacie, V | • | | | | | |
| | eResources addresses | Uzupełniające | | | | | | |
| | | | | | | | | |
| | | Zmiany klimatyczne i ich skutki środowiskowe - Moodle ID: 23975 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23975 | | | | | | |
| Example issues/ | | 1 , , , , , , , , , , , , , , , , , , , | 1 1 22 2 | | | | | |
| example questions/ tasks being completed | | | | | | | | |
| tasks being completed | List and explain the barriers to pro-e | environmental behaviour. | | | | | | |
| | | | | | | | | |
| | List the anthropogenic causes of the greenhouse effect? | | | | | | | |
| | What is the mitigation of climate change? | | | | | | | |
| | te change do you know? | | | | | | | |

| Work placement | Not applicable |
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Data wygenerowania: 12.04.2025 02:38 Strona 3 z 3