

## Subject card

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|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Climate Changes, PG_00102450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                         |                                     |                                                                          |            |     |
| Field of study                              | Economics, International Economic Relations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                         |                                     |                                                                          |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | Academic year of realisation of subject |                                     | 2025/2026                                                                |            |     |
| Education level                             | Master's studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | Subject group                           |                                     | Obligatory subject group in the field of study<br>Optional subject group |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | Mode of delivery                        |                                     | at the university                                                        |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | Language of instruction                 |                                     | English                                                                  |            |     |
| Semester of study                           | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | ECTS credits                            |                                     | 5.0                                                                      |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          | Assessment form                         |                                     | credit                                                                   |            |     |
| Conducting unit                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                         |                                     |                                                                          |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | dr Maria Matusiewicz                    |                                     |                                                                          |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          | dr Maria Matusiewicz                    |                                     |                                                                          |            |     |
| Lesson types                                | 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                                                       |                                         | 0.0                                 |                                                                          | 0.0        | 30  |
| Subject objectives                          | <p>Understanding the nature and significance of climate change, its economic impact on local and global economies, and the evaluation of climate policies and sustainable development strategies.</p> <p>This course aims to equip students with the knowledge to analyze the costs and benefits of climate action, as well as the tools to assess the risks and opportunities associated with the transition to a low-carbon economy</p> <p>General objectives:</p> <ol style="list-style-type: none"><li>1. Understanding the impact of individual economic sectors on climate change.</li><li>2. Analyzing dilemmas and trade-offs in climate policy.</li><li>3. Assessing the effectiveness of low-emission and adaptation solutions.</li><li>4. Discussing individual and collective choices in the context of climate justice.</li></ol> |                                                          |                                         |                                     |                                                                          |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                      | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Method of verification                                                                                                                                                                  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | [EKONMU2_W04] knows different types of economic and social ties and regularities governing them; has an in-depth knowledge of economic and financial ties between enterprises       | The student knows the sources of current knowledge on the economic, social and environmental aspects of climate change and understands the need for its continuous updating in a dynamically changing global context. The student is able to independently develop and supplement knowledge and skills in the field of climate economics, using various learning methods (self-education, teamwork, e-learning platforms) and actively participates in the exchange of knowledge with other participants in the educational process. The student is open to new ideas, approaches and techniques related to combating climate change and shows initiative and commitment in team activities aimed at developing knowledge and good practices in the field of sustainable development. | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report                                                            |
|                   | [EKONMU2_W05] has an extended knowledge of the human being as a manufacturer and consumer and extended knowledge of the human being as a creator of culture and social structures   | The student understands the importance of intersectoral and intercultural cooperation in the processes of combating climate change and knows the role of interdisciplinary teams in developing climate policies and projects. The student is able to cooperate effectively in a group, also in an international environment, taking on various roles in teamwork related to the analysis of climate problems and designing solutions in the spirit of sustainable development. The student demonstrates willingness to cooperate, openness to diverse cultural perspectives and responsibility for the common goals of the team working for the climate.                                                                                                                              | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report                                                            |
|                   | [EKONMU2_U01] can creatively interpret and explain economic and social phenomena and relations between them, using acquired knowledge of economics, finance and management sciences | Student posiada wiedzę na temat zasad ekonomicznych i finansowych funkcjonowania podmiotów gospodarczych oraz organizacji publicznych w kontekście przeciwdziałania zmianom klimatycznym. Zna obowiązujące regulacje prawne, ramy instytucjonalne oraz normy moralne i etyczne dotyczące odpowiedzialności środowiskowej i społecznej. Student potrafi analizować strategie i modele zarządzania stosowane przez przedsiębiorstwa i instytucje publiczne w odpowiedzi na wyzwania klimatyczne, uwzględniając aspekty ekonomiczne, prawne i etyczne. Student rozumie potrzebę etycznego i odpowiedzialnego działania w sektorze gospodarczym i publicznym w obliczu globalnych zagrożeń klimatycznych oraz jest gotów wspierać inicjatywy zgodne z zasadami zrównoważonego rozwoju.    | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |

|  | Course outcome                                                                                                                                                                                                                                                                          | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Method of verification                                                                                                                                                                  |
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|  | [EKONMU2_U02] can use acquired knowledge to describe and analyse the causes and course of economic and social processes and phenomena, and can formulate his/her own opinions and critically select data and analysis methods based on the achievements of economic and social sciences | The student knows the main causes, mechanisms and effects of climate change in the socio-economic context and understands the relationships between climate policy and the functioning of economic entities and public institutions. The student is able to analyze the causes and course of social and economic processes related to climate change and accurately interpret these phenomena, using adequate methods and tools of economic and social analysis (e.g. cost-benefit analysis, scenario modeling, sustainable development indicators). The student understands the complexity of climate phenomena in the socio-economic context and is ready for critical reflection and responsible action when analyzing and designing transformation solutions. | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |
|  | [EKONMU2_U07] can independently propose solutions to complex economic or social problems, select methods of analysis and conduct conclusive procedures in this respect                                                                                                                  | The student knows the basic concepts, theories and relationships concerning climate change, its causes and effects in economic and social terms. The student is able to correctly interpret economic and social phenomena resulting from climate change and apply knowledge of economics, finance and management sciences to analyze their effects and to design adaptation and mitigation strategies. The student is ready to take responsible actions for sustainable development and to cooperate in interdisciplinary teams analyzing and counteracting the effects of climate change.                                                                                                                                                                        | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |
|  | [EKONMU2_U08] can independently analyse economic and social phenomena and processes, and can perform a theoretically deepened assessment of such phenomena, using appropriately selected research method                                                                                | The student knows the basic principles of business ethics and the concept of corporate social responsibility (CSR) in the context of combating climate change and conducting sustainable economic activity. The student is able to identify and analyze ethical and social aspects of business decisions regarding the environment and climate, taking into account the interests of various stakeholder groups. The student is ready to be guided in professional life by the principles of business ethics, corporate social responsibility and respect for the natural environment and public interest in the context of climate challenges.                                                                                                                   | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |

|  | Course outcome                                                                                                                                                                                                                                                                                                                              | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Method of verification                                                                                                                                                                  |
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|  | [EKONMU2_U10] has an advanced ability to prepare specialist oral presentations on economic and social issues, using specialist theoretical approaches, the principles of collecting various sources of data, their description and interpretation, and drawing conclusions based on scientific literature; can prepare and conduct a debate | The student knows the economic, financial and management mechanisms related to the issue of climate change and their impact on economic and social decision-making. The student is able to use knowledge of economics, finance and management to analyze and solve dilemmas related to climate change in the context of economic activity, public policy and social responsibility. The student is ready to make responsible professional decisions in situations of economic and social dilemmas resulting from climate challenges, taking into account the common good and sustainable development.      | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |
|  | [EKONMU2_U15] can independently expand and improve acquired knowledge and skills in economics; is open to new ideas and techniques; tends to learn using any accessible method and to interact with other participants of the learning process                                                                                              | The student knows typical professional and social dilemmas resulting from the need to take into account climate and environmental aspects in economic and management activities. The student is able to analyze different variants of solutions to professional problems related to the impact of economic activity on the climate and indicate rational, ethical and sustainable development options. The student is ready to identify, diagnose and responsibly resolve professional dilemmas regarding environmental and climate issues, taking into account social and economic effects.               | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written<br>[SU8] observation of student's independent or team work |
|  | [EKONMU2_K01] recognises the importance of knowledge in the field of economics in the process of identifying and solving economic problems and of consulting experts when having difficulties in solving them independently                                                                                                                 | The student has advanced knowledge of social sciences and understands the role of economic sciences in the analysis of climate change issues; knows and applies economic terminology in the context of sustainable development, climate policy and low-emission economy. The student is able to use universal economic terminology to describe and interpret phenomena related to climate change and its impact on the economy and society. The student is ready to use knowledge of social and economic sciences in public and professional debate on climate change and its socio-economic consequences. | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written<br>[SK8] observation of student's independent or team work |
|  | [EKONMU2_K03] inspires and organises preparation of economic and social projects, following the idea of sustainable development, reconciling legal, economic, ecological, political and social requirements                                                                                                                                 | The student knows the methods of analysis and forecasting of economic and social processes in the context of climate change and their potential effects in various sectors of the economy. The student is able to predict the directions of economic and social changes related to climate phenomena and prepare forecasts of the effects of climate policies and adaptation strategies. The student is ready to take actions based on forecasts and analysis of climate trends and their impact on the socio-economic environment, while respecting the principles of sustainable development.            | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written<br>[SK8] observation of student's independent or team work |

|  | Course outcome                                                                                                                                                                                                                                                                                                                                                                                 | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Method of verification                                                                                                                                                                  |
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|  | [EKONMU2_K06] is ready to observe and develop in his/her professional life principles of business ethics and corporate social responsibility, respect others, be loyal to their employer, taking into account changing social needs.                                                                                                                                                           | The student knows the specialist terminology and selected theories and methodological approaches used in the analysis of socio-economic aspects of climate change, both nationally and internationally. The student is able to prepare written studies in Polish and English on selected issues related to climate change, using scientific literature, statistical data and international reports, using appropriate terminology, theoretical and methodological approaches and making comparisons between countries and regions. The student demonstrates responsibility in formulating conclusions and cares for the reliability and transparency of scientific communication in the context of the public debate on climate change. | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written<br>[SK8] observation of student's independent or team work |
|  | [EKONMU2_K05] correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession                                                                                                                                                                                                                                                                          | The student has in-depth knowledge of the impact of climate change on economic and social systems and knows the legal, economic and ecological mechanisms supporting sustainable development. The student is able to analyze and evaluate climate policies and design solutions for adaptation and mitigation of the effects of climate change, taking into account social, economic and environmental conditions. The student is able to cooperate in the development of economic and social projects related to climate change, reconciling various requirements: legal, economic, ecological, political and social, and demonstrates readiness to act for the common good in the context of climate transformation.                  | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written<br>[SK8] observation of student's independent or team work |
|  | [MSGMU2_W09] has an in-depth knowledge of selected areas of the functioning of a modern enterprise in the national and international environment; understands the conditions, principles and consequences of decisions taken in its structures aiming at the development, and the dependencies among enterprises on the international market                                                   | The student has in-depth knowledge of the functioning of contemporary enterprises in the context of climate change and its consequences for national and international operations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report                                                            |
|  | [MSGMU2_U03] can identify and analyse relations between business entities and institutions in their national and international environment                                                                                                                                                                                                                                                     | The student analyzes the relationships between economic entities and national and international institutions working to combat climate change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written                                                            |
|  | [MSGMU2_U02] can observe, evaluate and critically analyse the causes and course of processes and phenomena taking place in the open economy; can formulate his/her own opinions on the subject, interpret statistical data and economic indicators necessary in this respect, and also forecast economic processes and phenomena using advanced methods and tools applied in economic sciences | The student critically analyses climate processes and their economic impacts using data, indicators and advanced analytical methods.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written                                                            |

|  | Course outcome                                                                                                                                                                                                                                              | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Method of verification                                                                                                       |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|  | [MSGMU2_U01] can creatively interpret and explain complex and atypical economic phenomena and the relations occurring between them, using the acquired knowledge in economics, finance and international economic relations                                 | The student is able to creatively interpret complex phenomena related to climate change and its impact on the global economy and institutional relations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
|  | [MSGMU2_W14] has an in-depth knowledge of the human being as an individual making economic decisions, acting in social structures and organisational units, in particular in enterprises operating on the international market                              | The student understands the decision-making conditions of individuals and social groups in the context of global environmental and climate challenges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
|  | [EKONMU2_W03] has an in-depth knowledge of relations between economic phenomena, entities and organisations as well as public institutions functioning in the national, international and intercultural spheres                                             | The student has in-depth knowledge of the socio-economic effects of climate change and methods for assessing risks and costs associated with the transformation towards sustainable development. The student has the ability to observe, understand and analyze social and economic phenomena and processes resulting from climate change, using adequate scientific methods, including data analysis, economic models and environmental impact assessment tools. The student is ready to critically evaluate social and economic actions in the context of climate change and to participate in climate protection and just transformation activities.                                                                                                | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
|  | [EKONMU2_W01] has an in-depth knowledge of the nature of social sciences and their place in the system of sciences; understands the differences between contemporary trends in economic thought; knows the claims of contemporary economic theories         | The student has advanced knowledge of the economic consequences of climate change, in particular in the context of relations between economic entities and social organizations operating at the national, international and intercultural levels. The student is able to analyze climate policies and sustainable development strategies, assessing their impact on the functioning of economic entities and on intersectoral and intercultural relations. The student is aware of the importance of social and economic responsibility in the context of climate change and is able to actively participate in the debate on the transformation towards a low-emission economy, taking into account diverse cultural and institutional perspectives. | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
|  | [MSGMU2_K02] is ready to critically assess the level of acquired knowledge, skills and professional competence in the area of international economic relations                                                                                              | The student critically evaluates the level of his/her knowledge of the economic effects of climate change and the need for its further development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written |
|  | [MSGMU2_K01] is ready to recognise the importance of knowledge of economics in the process of identifying and solving problems in the area of international economic relations and to consult experts in case of difficulties in solving them independently | The student recognizes the importance of economic knowledge in analyzing and solving global climate problems and uses expert opinions when necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | [SK1] oral statement/conversation/discussion<br>[SK2] presentation/project/paper/report<br>[SK4] test/exam - oral or written |

| Course outcome                                                                                                                                                                                                                                                                                                                                                                                               | Subject outcome                                                                                                                                                                            | Method of verification                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| [MSGMU2_U14] has a thorough ability to prepare specialist oral presentations on economic and social issues, using specialist theoretical approaches, the principles of collecting data from various sources, their description and interpretation, and drawing conclusions on the basis of scientific literature; can prepare and lead a debate                                                              | The student is able to prepare and deliver specialist presentations on the economic, social and political aspects of climate change, also in a foreign language.                           | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
| [MSGMU2_U11] independently formulates and tests hypotheses related to simple research problems, appropriately selects and applies methods and tools, including statistical tools and data acquisition techniques in order to verify hypotheses and diagnose economic processes, and on this basis to take appropriate economic decisions                                                                     | The student independently formulates research hypotheses related to the impact of climate change on the economy and makes economic decisions based on empirical data.                      | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
| [MSGMU2_U10] can accurately select and use sources of information on international economic relations, evaluate, critically analyse and creatively interpret them, and can present them in an innovative way, using advanced information and communication techniques                                                                                                                                        | The student searches for, evaluates and creatively interprets sources of information on the economic aspects of climate change, using advanced information tools.                          | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
| [MSGMU2_U09] can innovatively solve problems in the field of international economic relations and the functioning of economic entities on the international market, adapting existing or developing new methods and tools                                                                                                                                                                                    | The student innovatively solves problems related to the functioning of economic entities in the context of climate and energy transformation.                                              | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
| [MSGMU2_U08] can communicate in an international and culturally diverse environment, using advanced terminology of international economic relations; supports his/her position, doubts and suggestions with argumentation based on selected theories, opinions of various authors and/or statistical data                                                                                                    | The student communicates in an international environment about climate challenges, arguing his/her position using theory and data.                                                         | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU4] test/exam - oral or written |
| [MSGMU2_W06] knows and understands the fundamental dilemmas related to globalisation and the formation of contemporary international economic relations                                                                                                                                                                                                                                                      | The student understands the fundamental dilemmas of globalization related to climate protection, energy transformation and transnational responsibility.                                   | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
| [MSGMU2_W05] has an in-depth knowledge of the world economy, principles of global market functioning and international financial relations as well as the process of their evolution; understands the causes, regularities and consequences of occurring changes                                                                                                                                             | The student has in-depth knowledge of the impact of climate change on the global economy, financial markets and global mechanisms.                                                         | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
| [MSGMU2_W04] has an in-depth knowledge of different types and elements of economic structures and institutions, including institutions, organisations and economic entities; understands the causes, course, scale and consequences of changes occurring in them, as well as relations between them on a national, international and intercultural scale; knows the theories explaining relations among them | The student knows the types and elements of institutional structures that work for climate, understands the mechanisms of their operation and interdependencies on an international scale. | [SW4] test/exam - oral or written<br>[SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |

| Subject contents                                                                                               | <p>1. Introduction to climate change in the economic context<br/>Science vs. economics how to interpret climate models?<br/>The carbon budget and its division between sectors/countries.</p> <p>2. Impact of key sectors on emissions<br/>Energy: From coal to renewable energy sources costs, pace of transformation, energy security.<br/>Agriculture and livestock: Methane emissions, deforestation, meat vs. plant-based diet.<br/>Heavy industry (steel, cement): CCS technologies, hydrogen, decarbonization.<br/>Transport: Electromobility, synthetic fuels, aviation (SAF).</p> <p>3. Trade-offs and climate policy dilemmas<br/>Green growth vs. degrowth is capitalism compatible with the climate?<br/>Just transition: social costs (e.g. miners, farmers).<br/>Emissions offshoring EU vs. rest of the world</p> <p>4. Finance and innovation<br/>Carbon pricing: carbon taxes vs. ETS systems.<br/>Greenwashing vs. real investments (e.g. ESG funds).<br/>The role of technology, e.g. nuclear fusion, DAC)?</p> <p>5. Consumption and individual choices<br/>Carbon footprint of the average citizen of the Global North<br/>Does consumer boycotts make sense? (fast fashion, meat)<br/>do everyday choices matter (recycling, transport)<br/>Climate psychology: why are we ignoring the crisis? is climate change causing anxiety in selected generations?</p> <p>6. The future: scenarios and controversies<br/>Geoengineering<br/>Are international agreements (e.g. COP) effective?<br/>Net zero noble goals or corporate greenwashing?</p> |                               |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
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| Prerequisites and co-requisites                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
| Assessment methods and criteria                                                                                | <table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>own work, project presentation OR exam in case of failure to meet the conditions: presence and/or presentation</td><td>51.0%</td><td>100.0%</td></tr><tr><td></td><td>0.0%</td><td>0.0%</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Subject passing criteria      | Passing threshold                                                                                                                                                                                                                                                                                            | Percentage of the final grade | own work, project presentation OR exam in case of failure to meet the conditions: presence and/or presentation | 51.0%                | 100.0% |  | 0.0% | 0.0% |  |  |
| Subject passing criteria                                                                                       | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Percentage of the final grade |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
| own work, project presentation OR exam in case of failure to meet the conditions: presence and/or presentation | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100.0%                        |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
|                                                                                                                | 0.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.0%                          |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
| Recommended reading                                                                                            | <table><tr><td>Basic literature</td><td><i>The New Climate War</i>, by Michael Mann, 2021<br/><br/><i>Supercharge Me: Net Zero Faster</i>, by Eric Lonergan and Corinne Sawers, 2022<br/><br/><i>Post Growth: Life After Capitalism</i>, by Tim Jackson, 2021<br/><br/><i>This Changes Everything: Capitalism Vs The Climate</i>, by Naomi Klein, 2014</td></tr><tr><td>Supplementary literature</td><td>Current Issues:<br/>Climate Sections: The Guardian, The Washington Post</td></tr><tr><td>eResources addresses</td><td></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Basic literature              | <i>The New Climate War</i> , by Michael Mann, 2021<br><br><i>Supercharge Me: Net Zero Faster</i> , by Eric Lonergan and Corinne Sawers, 2022<br><br><i>Post Growth: Life After Capitalism</i> , by Tim Jackson, 2021<br><br><i>This Changes Everything: Capitalism Vs The Climate</i> , by Naomi Klein, 2014 | Supplementary literature      | Current Issues:<br>Climate Sections: The Guardian, The Washington Post                                         | eResources addresses |        |  |      |      |  |  |
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| Example issues/ example questions/ tasks being completed                                                       | <ul style="list-style-type: none"><li>• How to interpret climate models?</li><li>• Is capitalism compatible with climate?</li><li>• Are international agreements (e.g. COP) effective?</li><li>• net zero noble goals or corporate greenwashing?</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |
| Work placement                                                                                                 | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                               |                                                                                                                                                                                                                                                                                                              |                               |                                                                                                                |                      |        |  |      |      |  |  |

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