



COURSE UNIT DESCRIPTION

Course unit title	Code
CLIMATE CHANGE	

Lecturer(s)	Department(s)
Coordinator: Prof. Dr Asta Mikalauskiene Other(s): Dr Ignas Mikalauskas	Vilnius University Kaunas Faculty Institute of Social Sciences and Applied Informatics Muitinës st. 8, LT-44280 Kaunas

Cycle	Type of course unit
First cycle	General University Studies (GUS)

Mode of delivery	Semester or period	Language(s) of instruction
Remote	Spring / autumn semester	English

Requirements for student	
Prerequisites: English language skills (B1)	Corequisites (if any): -

Number of credits allocated	Total student workload	Contact hours	Individual work hours
5	130	48	82

Purpose of the course unit: programme competences to be developed		
<p>The climate change study module aims to develop students' critical and analytical thinking, the ability to analyze the current global situation by identifying the factors affecting climate change, as well as the possibilities of using climate change mitigation measures, and develops conscious (cohesive) behavioural habits that contribute to the reduction of negative impact on climate change.</p>		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
- The student will know the characteristics and factors of climate change in the context of globalization and will be able to see and analyze the impact of global policies on climate change processes.	Problematic teaching, analysis of scientific literature, independent writing work, group discussion.	Independent written work and presentation prepared on its basis, interim settlement (written survey), examination (written survey).
- The student will be able to understand, analyze and critically assess the challenges of sustainable development in the context of climate change and cultural, climatic and psychological factors in the development process of the country.	Problematic teaching, analysis of scientific literature, independent writing work, group discussion.	Independent writing work and presentation prepared on its basis, tart settlement (test), examination (written survey).
- The student will be able to assess the possibilities of creating an individual's behavior and sustainable economy and the relationship between climate change.	Problematic teaching, analysis of scientific literature, independent writing work, group discussion.	Self-written work and presentation prepared on its basis.
- The student will be able to independently collect, systematize and analyze information related to climate change and present his reasoned insights in a timely manner.	Search for information, analysis of scientific literature, preparation of a report prepared on the basis of independent writing work, methods of active learning (group discussion).	Self-written work and presentation prepared on its basis.

- The student will be able to demonstrate communication skills by presenting his work in the auditorium, will be able to present his ideas and reasoned opinion, participate in the discussion and answer the questions presented.	Preparation and presentation of a report prepared on the basis of self-written work in the auditorium, group discussion.	Self-written work and presentation prepared on its basis.
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Topics	Contact hours							Total contact hours	Individual study hours and assignments	
	Lectures	Consultations	Seminars	Exercises	Lab work	Internship	E-learning(s)		Individual work	Assignments
1. Introductory lecture. Getting to know the thing.	2							2	-	
2. Climate change issues. Interpretation of environmental and natural concepts.	2							2	6	Reading scientific literature: Arūnas Bukantis, Justas Kažys, Egidijus Rimkus, Mečislovas Žalakevičius. 100 questions about climate change. p. 12-34.
3. The impact of globalisation on climate change. The internationalization of production that determines the process of globalization. The topic of discussion of the seminar is: The impact of global policy on climate change.	3		2					5	6	Reading scientific literature: (Povilas Gylys. Economics, anti-economic and globalization. p. 191-221), writing self-written work, preparation of debatable questions.
4. Climate change and sustainable development. The topic of the seminar discussion: Challenges for sustainable development in the context of climate change.	4		2					6	6	Reading scientific literature: (Mikalauskiene, Asta, Štreimikienė, Dalia. Theoretical foundations for the implementation of sustainable development policy. p. 8-16), search for information (in a virtual environment: http://www.darnusvystymasis.gpf.lt/lt/klimato-kaita ; http://www.vbplatforma.org/LT) its collection and systematization, preparation of discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
5. Climate change and consumer behaviour. The topic of the seminar discussion: Ideological disruptions to the creation of a sustainable economy.	4		2					6	6	Reading scientific literature: (Daniel Kahneman, Thinking, Fast and Slow, pp. 124-143), search for information (https://climateandcapitalism.com/2010/02/20/do-consumers-cause-climate-change/), its collection and systematization, preparation of discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
6. The impact of atmospheric pollution on climate change. The topic of the seminar discussion: Global GHG emissions and their impact. Regional pollution.	4		2					7	7	Reading of scientific literature (Vida Marija Rutkoviene, Nomeda Sabiene). Environmental pollution. p. 5-36), preparation of discussion issues, commenting on the work of colleagues, writing and presenting self-employment.

7. Preparation for interim settlement.								10	Preparation for interim settlement (analysis of lectures, analysis of main and additional scientific literature on the intended topics).	
8. Free market fundamentalism and climate change. Liberalisation of markets. Trade and climate.	2							2	6	Reading scientific literature: (Naomi Klein. It changes everything. p. 73-83. David Held, Anthony McGrew, David Goldblatt, Jonathan Perraton. Global changes: politics, economics and culture. pp. 201-208), search for information (in a virtual environment: https://climate.nasa.gov/resources/global-warming/), its collection and systematization, preparation of discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
9. Climate change and developing regions of the world. The topic of the seminar discussion: The fundamental problems of developing regions and possible solutions to them.	4		2					7	7	Reading of scientific literature (Naomi Klein. It changes everything. p. 24-36; Remigijus Čiegis. Economics and environment. pp. 171-204), preparation of discussion issues, commenting on the work of colleagues, writing and presenting self-employment.
10. Climate determinism. Justification of the concept and existence of the equatorial paradox. The topic of the seminar discussion: Climate determinism in the world.	3		2					5	6	Reading scientific literature: (Vidmantas Daugirdas. Geography of Culture: The Development of Ideas of Geographical Determinism, pp. 9-12). Search for information (in a virtual environment: https://www.thoughtco.com/environmental-determinism-and-geography-1434499 ; https://kennizworld.wordpress.com/2013/05/01/environmental-determinism/), its collection and systematization, preparation of discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
11. Poverty and climate change. The topic of the seminar discussion: Poverty and food insecurity as a consequence of climate change.	2		2					2	6	Reading of scientific literature: (The State of Food Security and Nutrition in the World 2018 pp. 38-60), preparation of discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
12. Adaptation measures and the possibilities for their application. The topic of the seminar discussion: Global, regional and personal adaptation measures.	2		2					4	6	Reading of scientific literature: (Vida Marija Rutkoviėnė, Nomedas Sabienė. Environmental pollution. p. 150-176), Search for information (in a virtual environment: https://www.eea.europa.eu/lt/themes/prisitaikymas-prie-klimato-kaitos ; https://paramaverslui.eu/strategines-es-prisitaikymo-prie-klimato-kaitos-priemones/), its collection and systematization, preparation of

											discussion questions, commenting on the work of colleagues, writing and presenting self-employment.
13. Preparation for the exam and its observance.										10	
Total	32		16						48	82	

Assessment strategy	Weight in %	Assessment period	Assessment criteria
Interim settlement (written survey)	30 %	Week 9-10	<p>The written survey consists of 10 open and/or closed type questions, each of which is rated 1 point. Open questions are assessed as follows:</p> <p>1: Excellent and good knowledge and abilities, there may be minor mistakes.</p> <p>0.5: Average knowledge and abilities, there are errors, knowledge and abilities still meet the minimum requirements.</p> <p>0: Minimum requirements are not met.</p> <p>Closed questions have at least 2 answer options, one of which is correct. If the correct answer is marked, it is evaluated by 1 point, incorrectly – by 0 points.</p> <p>Final assessment: the sum of the scores received for questions $\times 30 / 100 =$ cumulative score of the written survey.</p>
Independent writing work (0.75-1 author's bow) and its presentation	40 %	Until the end of the semester	<p>The self-writing work report reflects all the student's work independently carried out during the course.</p> <p>The following aspects of the work are assessed:</p> <ul style="list-style-type: none"> - <u>Structure and scope of the work:</u> the structure of the written work is clear and logical, there are all the necessary parts (introduction, where the topic, goals, tasks, methods, empirical material are presented; teaching, where the analysis and interpretation of empirical material is presented; conclusions), the work is of the appropriate scope (2 points); - <u>Analysis and conclusions:</u> the analysis is very detailed, the conclusions are reasonable, formulated on the basis of empirical material (3 points); if the analysis is carried out, but not exhaustive, the conclusions are not always justified, 1 point is awarded, no points are awarded for superficial analysis. - <u>Writing style of work and research culture:</u> sources and quotations are properly treated; formulations and style meet the requirements of scientific work (2 points). - <u>Presentation:</u> reasoned, clear and consistent presentation of self-employment, ability to keep the audience's attention, validity of answers to questions (3 points) <p>Self-employment delivery material (Power Point) is placed in the MS Teams environment.</p> <p>Final assessment: a score of $\times 40 / 100 =$ accumulated score for self-employment for self-help work.</p>
Examination (written survey)	30 %	Scheduled time during the session	<p>The written survey consists of 10 open and/or closed type questions, each of which is rated 1 point. Open questions are assessed as follows:</p> <p>1: Excellent and good knowledge and abilities, there may be minor mistakes.</p> <p>0.5: Average knowledge and abilities, there are errors, knowledge and abilities still meet the minimum requirements.</p> <p>0: Minimum requirements are not met.</p>

			<p>Closed questions have at least 2 answer options each, one of which is correct. If the correct answer is noted, it is evaluated by 1 point.</p> <p>Final assessment: the sum of the scores received for questions x 30 / 100 = cumulative score of the written survey.</p>
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Author	Year of publication	Title	Periodical No. or volume of publication	Place of publication and publishing house	Internet access or VU library
Compulsory literature					
Naomi Klein	2017	It changes everything. Capitalism against the climate		Vilnius, Other books	VU Journalism and Media Reading Room
David Held, Anthony McGrew, David Goldblatt, Jonathan Perraton	2002	Global change: politics, economics and culture		Vilnius Variegated writings	VU Communication Reading Room
Povilas Gylys	2008	Economy, anti-economic and globalisation		Vilnius Vilnius University Publishing House	VU Economic Reading Room
Mikalauskiene, Asta, Štreimikienė, Dalia	2014	Theoretical foundations for the implementation of sustainable development policy		Vilnius Vilnius University Publishing House	VU Economic Reading Room
Remigijus Čiegis	2004	Economy and environment. Management of sustainable development. Monograph		Kaunas	VU Economic Reading Room
Vidmantas Daugirdas	2016	Geography of culture: the development of geographical determinism. Educational book		Vilnius	eLABa PDB Cache
FAO, IFAD, UNICEF, WFP and WHO	2018	The State of Food Security and Nutrition in the World 2018. Building Climate Resilience for Food Security and Nutrition		Rome, FAO	Access via the Internet: www.fao.org/3/I9553EN/i9553en.pdf
Arūnas Bukantis, Justas Kažys, Egidijus Rimkus, Mečislovas Žalakevičius	2017	100 questions about climate change		VU: Science and Encyclopaedia Publishing Centre	VU MKIC Storage VU Geosciences Reading Room
Vida Marija Rutkoviene, Nomeda Sabiene	2008	Environmental pollution. Educational book		Kaunas, Academy	eLABa PDB Cache
Daniel Kahneman	2016	Thinking, fast and slow		Vilnius, Eugrim	VU Kaunas Faculty Reading Room

					VU Philosophy Reading Room VU Business Reading Room
Additional literature					
Muhammad Isl Rahman	2013	Climate Change: A Theoretical Review	Interdisciplinary Description of Complex Systems 11(1)		In a virtual environment: https://hrcak.srce.hr/file/141435
Fekadu Kassa Ayichew	2014	The Paradox in Environmental Determinism and Possibilism: A Literature Review	Journal of Geography and Regional Planning, Vol.7(7), pp. 132-139		DOI: 10.5897/JGRP2013.0406
Alba Kruja	2013	Sustainable Economic Development, a Necessity of the 21st Century	Mediterranean Journal of Social Sciences, Vol 4, No 10		Doi:10.5901/mjss.2013.v4n10p93
Food and agriculture organization of the united nations	2008	Climate Change and Food Security: a Framework Document			In a virtual environment: www.fao.org/docrep/010/k2595e/k2595e00.pdf
Algis Šileika, Algis; Rasa Zabarauskaitė	2009	Poverty: methodology issues and level in Lithuania		Social work. Scientific Works No. 8 (1). Vilnius.	
European Commission	2018	Our planet, our future.		Luxembourg: Publications Office of the European Union	In a virtual environment: https://ec.europa.eu/clima/citizens/youth_it VU Journalism Reading Room
Environmental Protection Agency	2018	Trends in greenhouse gases. Report			In a virtual environment: http://klimatas.gamt.lt/cms/index?rubricId=5c8c1038-d997-47a7-bc77-58b993e282c1
Dan Ariely	2018	Predictably irrational. The secret forces that influence our decisions		Vilnius, Psychology for You	
Remigijus Čiegis, Aidas Dilius	2015	Assessment of the impact of income inequality on sustainable economic growth		Sustainable development problems and ways to solve them in Lithuania. Collective monograph	eLABa PDB Cache
Pranas Mierauskas	2017	Environment: The challenges of modern management. Textbook		Vilnius, State Enterprise	VU MKIC Storage

				Centre of Registers	
Klaus Schwab	2017	The Fourth Industrial Revolution		Vilnius, Vaga	VU Communication Reading Room
Zabarauskaitė, Rasa; Blažienė, Inga.	2012	Income inequality in the context of economic cycles	Business: Theory and Practice. No 13(2)		doi: 10.3846/btp.2012.11