

COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Kodas
Sustainable development	

Annotation

The course will provide students with a theoretical conceptualization of sustainable development, taking into account the peculiarities of the interaction of three dimensions of sustainable development (economic, social and environmental). On that basis the individual tasks will be performed assessing sustainable development processes at the national and international levels, using sustainable development indicator systems.

Lecturer(s)	Department(s) where the course unit (module) is delivered
Coordinator:	Kaunas faculty
Prof. dr. Asta Mikalauskienė	Institute of Social Sciences and Applied Informatics Muitines st. 8, LT – 44280 (Kaunas)
Other(s):	
Asist. dr. Danguolė Oželienė	Business School (Vilnius)
Prof. dr. Skaidrė Žičkienė	Šiauliai Academy

Study cycle	Type of the course unit (module)
First	General university studies

Mode of delivery	Semester or period when the course unit (module) is delivered	Language(s) of instruction
Face to face, distance	Spring and fall semesters	English

Requisites							
Co-requisites (if relevant): English language skills (B1)	Additional requirements (if any): No						

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	130	50	80

Purpose of the course unit (module)

To develop the ability to analyse and evaluate sustainable development processes through three main projections of sustainable development - economic, social and environmental, the ability to identify problems, assess and present solutions using sustainable development indicator systems.

Learning outcomes of the course unit (module)	Teaching and learning methods	Assessment methods
Will be able to identify different approaches to sustainable development, understand the most important concepts of sustainable development and the principles of economic growth compatibility / incompatibility with sustainable development.	Problem-based learning, demonstration, active learning methods (group discussion), research methods (information search, preparation of independent written work).	Intermediate assessment - colloquium (test in written form), exam (test in written form), assessment of individual/group written work.
Will understand the essence of sustainable development indicators and their necessity, possibilities for their development at the national and international levels, taking into	Problem-based learning, active learning methods (group discussion), research methods (information search,	Intermediate assessment - colloquium (test in written form), exam (test in written form), assessment of

account the desired characteristics of these indicators.	preparation of independent written work).	individual/group written work.
Will be able to evaluate the basic principles of sustainable production and the possibilities of their implementation, while analysing the ecological and social manufacturing efficiency. Will be able to identify the basic principles of sustainable consumption and identify consumer behaviour in the context of sustainable consumption together with social consumption problems.	Problem-based learning, active learning methods (group discussion), research methods (information search, preparation of independent written work).	Intermediate assessment - colloquium (test in written form), exam (test in written form), assessment of individual/group written work.
Will be able to assess the social and ecological problems related to economic development, the main problems of modern economic development and the causes of their occurrence, to analyse contemporary economic problems in the context of sustainable development.	Problem-based learning, active learning methods (group discussion), research methods (information search, preparation of independent written work).	Intermediate assessment - colloquium (test in written form), exam (test in written form), assessment of individual/group written work.
'	All study methods provided in the description can be applied using VU virtual learning environment (VMA) and MS Teams platform.	Assessment using the specified assessment methods can be performed in the VU virtual learning environment (VMA) and MS Teams platform.

		Contact hours							Individual work: time and assignments	
Content: breakdown of the topics	Lectures	Tutorials	Seminars	Workshops	Laboratory work	Internship/work	E-learning	Contact hours,	Individual work	Assignments
Introduction to study subject.	2							2	-	
2. Sustainable development concept and concept evolution. Assumptions and origins of the concept of sustainable development. Growth and development. Strong and week sustainability. Needs and possibilities to meet them.	2		1					3	5	Analysis of scientific literature: Jackson, T. Prosperity without growth, 15-28; Mensah, J., Casadevall, S., R. parts 3,1-3,3, 4; Transforming our World: The 2030 Agenda for Sustainable Development (hereinafter - Agenda 2030), p. 1-17; Living Sustainably https://www.sustainability-yes.ch/en/?gclid=CjwKCAjw tfqKBhBoEiwAZuesiCx37Hp 5GvwtWFOFdGrr2ho_fW43 wwaAKSGyqz1hU-hUK8tc94K5_xoCi18QAvD_BwE. Recommended reading: Springett, D.; Redclift, M. Sustainable Development. International Handbook of Sustainable Development, p. 3-29.

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3. Sustainable development dimensions and their interaction. Interaction between environment and economy. Interaction between environment and society. Interaction between society and the economy.	2	1		3	5	Analysis of scientific literature: Kristic, I.I.; Ilic, A.; Avramovic, D. The Three Dimensions of Sustainable Development: Environment, Economy and Society, p. 197-201; Mensah, J., Casadevall, S., R., parts 5 and 6. Preparation of individual/group work. Recommended reading: Slaper, T. F.; Hall, T. J. The Triple Bottom Line: What Is It and How Does It Work?, p. 4–8; The Three Pillars of Sustainability. https://www.thwink.org/sustain/glossary/ThreePillarsOf Sustainability.htm; Allen, L. What Are the Three Pillars of Sustainability? https://www.treehugger.com/what-are-the-three-pillars-of-sustainability-5189295
4. Sustainable development	2	1		3	5	Analysis of scientific
indicators. Indicator selection process. Desirable characteristics of sustainable development indicators. Complex/integral indicators of sustainable development. Sustainable development indicator systems.						literature: Parris, T., M., Kates, R., W. Characterising and Measuring Sustainable Development, p. 1-24; Burford, G., etc. Can We Improve Indicator Design for Complex Sustainable Development Goals? A Comparison of a Values- Based and Conventional Approach, p. 1-4; Agenda 2030, p. 19-32. Information search (SDG indicators: goal by goal Eurostat https://ec.europa.eu/eurosta t/web/sdi/indicators), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Singh, R. K., etc. An Overview of Sustainability assessment methodologies, p. 281–299. The Sustainable Development goals reports 2018-2020.
5. Sustainable production. Basic principles of sustainable production and possibilities of their implementation. Production efficiency:	2	1		3	5	Analysis of scientific literature: Posinasetti, N. Sustainable Manufacturing: Principles, Applications and Directions.

ecological efficiency, social								A web-magazine of
efficiency.								industr.com; Abubakr, M., etc. Sustainable and Smart
6. Sustainable consumption. Consumption impact on environmental. Social problems caused by consumption. Consumer behavior. Development of environmentally friendly consumer attitudes. Promoting the eco-efficiency of production and services.	2		1			3	5	etc. Sustainable and Smart Manufacturing: An Integrated Approach, p. 2-19. Sustainable Consumption and Production Handbook for policymakers, p. 10-29, p. 107-131, p. 198-204. Doran, P. Doing More with Less: Ensuring Sustainable Consumption and Production IISD https://www.iisd.org/articles/doing-more-less-ensuring-sustainable-consumption-and-production Information search (Ensure sustainable consumption and production patterns. https://sdg-tracker.org/sustainable-consumption-production), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Responsible consumption and production. https://datatopics.worldbank.org/sdgatlas/archive/2017/SDG-12-responsible-consumption-andproduction.html; Sustainable Consumption. Facts and Trends. https://docs.wbcsd.org/2008
								/11/SustainableConsumptio nFactsAndTrends.pdf
7. Preparation for interim assessment		1				1	9	Preparation for interim assessment
8. Sustainable development and inequality between countries. Counties with different levels of development: reasons and consequences. The concept of inequality between countries. The meaning of sustainable development in more and less developed countries.	4		2			6	7	Analysis of scientific literature: Roser, M. Global Economic Inequality. https://ourworldindata.org/global-economic-inequality Achieving the sustainable development goals in the least developed countries, p. 7-34 Search for information (UN Conference on Sustainable Development Rio+20, 20212; Paris Conference, 2015), information collection and systematization, preparation of discussion questions, reflections on colleagues' works,

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					preparation of individual/group work. <i>Recommended reading:</i> Heinze, J. The Impact of Globalisation on Poverty and Inequality in the Global South, p. 1-4.
9. Poverty and social exclusion. The social dimension of sustainable development: poverty and social exclusion. The concept of poverty and social exclusion. Methods for calculating poverty lines. Concepts of absolute and relative poverty.	4	2	6	7	Analysis of scientific literature: Hartley, D. Poverty and social exclusion in Social Advantage and Disadvantage, p. 1-18; Relative vs Absolute Poverty. Habitat for Humanity. https://www.habitatforhuma nity.org.uk/blog/2018/09/rel ative-absolute-poverty/. Search for information (European Commission https://ec.europa.eu/social/main.jsp?langId=en&catId=751; Social Development. Applied Knowledge Services https://gsdrc.org/category/social-development/), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Hammonds, R., Hanefeld, J., Ooms, G. Accountability as a driver of health equity; Poverty. The World Bank https://www.worldbank.org/en/topic/poverty/overview#1
10. Global change and learning organization. The social dimension of sustainable development: education and science. Global economic change and learning organization. Learning and competence development.	4	2	6	7	Analysis of scientific literature: Henning, S. O. Beyond the current political economy of competence development, p. 153-170; Drejer, A. Organisational learning and competence development, p. 206-220 Search for information (European Commission http://ec.europa.eu/economy_finance/international/globalisation/index_lt.htm), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Hall, C. M. Global Change, Islands and Sustainable Development. International

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							Handbook of Sustainable Development, p. 55-70; Kock, H., Ellström, P-E. Formal and integrated strategies for competence development in SMEs, p. 71- 88.
11. Cultural transformation. The social dimension of sustainable development: preserving cultural identity.	2	1			3	5	Analysis of scientific literature: Soini, K., Dessein, J. Culture - Sustainability Relation: Towards a Conceptual Framework, p. 2-12; Parodi, O. The missing aspect of culture in sustainability concepts. Theories of Sustainable Development, p. 169 - 187. Search for information, information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Learn 10 Things Why It Is Important to Preserve Culture. https://thelanguagedoctors.org/why-it-is-important-to-preserve-culture/; Duxbury, N.; Gillette, E. Culture as a Key Dimension of Sustainability: Exploring Concepts, Themes, and Models, p. 2-16.
The social dimension of sustainable development: employment criteria. Illegal employment.	2	1			3	5	Analysis of literature: Addressing the illegal employment of foreign workers, International Migration Outlook 2018, p. 163-202 Search for information (Global Slavery Index https://www.globalslaveryin dex.org/; Forced Labour Index https://www.maplecroft.com/risk-indices/forced-labour-index/), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Recommended reading: Bosáková, L. A bottom-up approach to employment. An example of good practice. https://www.euro.who.int/_data/assets/pdf_file/0009/37

								4328/20180613-bottom-up-broz-6-h0835.pdf; Leach, M. Gender Equality and Sustainable Development. London, Routledge.
development process in the EU context. Current situation and prospects. Analysis and comparison of Lithuania's sustainable development indicators with other EU countries. Clarification of problem areas and analysis of possible solutions.	4	1	2			1	9	Analysis of scientific literature: Kopfmüller, J. A global model — universal and contextual. Theories of Sustainable Development, p. 112-125. Information search (World Data forum https://unstats.un.org/unsd/undataforum/index.html; Global Partnership for sustainable development https://www.data4sdgs.org/; Sustainable Development Goals Helpdesk https://sdghelpdesk.unesca p.org/data-portals?field_sdgs_target_id = All&title=&page=4), information collection and systematization, preparation of discussion questions, reflections on colleagues' works, preparation of individual/group work. Preparation for exam
	20		40				_	Preparation for exam
Total	32	2	16			50	80	

Assessment strategy	Weight, %	Deadline	Assessment criteria
Interim assessment (test in written form) (T)	30	9-10 week	Test consists of 20 open-ended and closed-ended questions. Each question is rated at 0.5 points. Open-ended questions are assessed as follows: 0.5: Excellent and good knowledge and skills, there may be minor mistakes. 0.25: Average knowledge and skills, there are mistakes, but knowledge and skills still meet minimum requirements. 0: Minimum requirements are not met. Closed-ended questions have four possible answer options (only one answer is correct). If the correct answer is marked, it is evaluated 0.5 points, incorrect - 0 points.
Independent written work 40,000 - 50,000 characters (with spaces) (S)	40	Till the end of semester	The following aspects of the work are assessed: - Structure and scope of the work: the structure of the written work is clear and logical, there are all necessary parts (introduction, where the topic, goals, objectives, methods, empirical materials are presented; analytical, where the analysis and interpretation of empirical materials is given; conclusions), the work is of appropriate scope (5 points); - Analysis and conclusions: the analysis is very detailed, the conclusions are substantiated, formulated on the basis of empirical material (3 points); if the analysis is performed but is not comprehensive, the conclusions are not always

			substantiated, 1 point is awarded, no points are awarded for a superficial analysis. - Written work style and research culture: sources and citations are treated appropriately; formulations and style meet the requirements of scientific work (2 points).
Exam ((test in written form) (E)	30	During the exam session	Test consists of 20 open-ended and closed-ended questions. Each question is rated at 0.5 points. Open-ended questions are assessed as follows: 0.5: Excellent and good knowledge and skills, there may be minor mistakes. 0.25: Average knowledge and skills, there are mistakes, but knowledge and skills still meet minimum requirements. 0: Minimum requirements are not met. Closed-ended questions have four possible answer options (only one answer is correct). If the correct answer is marked, it is evaluated 0.5 points, incorrect - 0 points.

Final rating = T * 0.30 + S * 0.40 + E * 0.30

The assessment strategy, using the specified assessment criteria, can be implemented in VU virtual learning environment (VMA) and the MS Teams platform.

Author	Publishing year	Title	Issue of a periodical or volume of a publication; pages	Publishing house or internet site
		Required reading		
Jackson, T	2011	Prosperity without growth.		Sustainable Development Commission https://www.growthi ntransition.eu/wp- content/uploads/pro sperity_without_gro wth_report.pdf
	2015	Transforming our world: the 2030 Agenda for Sustainable Development.		United Nations https://sdgs.un.org/ sites/default/files/pu blications/21252030 %20Agenda%20for %20Sustainable%2 0Development%20 web.pdf
	2021	Living Sustainably.		https://www.sustain ability- yes.ch/en/?gclid=Cj wKCAjwtfqKBhBoEi wAZuesiCx37Hp5G vwtWFOFdGrr2ho_f W43wwaAKSGyqz1 hU- hUK8tc94K5_xoCi1 8QAvD_BwE
Mensah, J., Casadevall, S., R.	2019	Sustainable development: Meaning, history, principles, pillars, and implications for human action.		Cogent Social Sciences, 5:1, DOI: 10.1080/23311886. 2019.1653531
Kristic, I.I.; Ilic, A.; Avramovic, D.	2018	The Three Dimensions of Sustainable Development: Environment, Economy and Society.		https://www.researc hgate.net/publicatio n/329611140_THE_

Dorrio T M	2003	Characterining and Massuring	THREE_DIMENSIO NS_OF_SUSTAINA BLE_DEVELOPME NT_ENVIRONMEN T_ECONOMY_AN D_SOCIETY Annual Review of
Parris, T., M., Kates, R., W.	2003	Characterising and Measuring Sustainable Development	Environment and Resources, 2813 (1):1-1328 p. 1-24
Burford, G., Tamás, P., Harder, M.K.	2016	Can We Improve Indicator Design for Complex Sustainable Development Goals? A Comparison of a Values-Based and Conventional Approach. SDG indicators: goal by goal	Sustainability, 8, 86 4-38. https://doi.org/10.33 90/su8090861 Eurostat https://ec.europa.eu /eurostat/web/sdi/in
Abubakr, M. Abbas, A. T., Tomaz, I., Soliman, M. S., Luqman, M., Hegab, H.	2020	Sustainable and Smart Manufacturing: An Integrated Approach	dicators Sustainability, 12 (6). doi:10.3390/su1206 2280.
	2015	Sustainable Consumption and Production Handbook for policymakers	UN Environment Programme
Posinasetti, N.	2018	Sustainable Manufacturing: Principles, Applications and Directions.	A web-magazine of industr.com https://www.industr.com/en/sustainable-manufacturing-principles-applications-and-directions-2333598
	2018	Ensure sustainable consumption and production patterns.	SDG Tracker https://sdg- tracker.org/sustaina ble-consumption- production
Doran, P.	2021	Doing More with Less: Ensuring Sustainable Consumption and Production.	IISD https://www.iisd.org/ articles/doing-more- less-ensuring- sustainable- consumption-and- production
Roser. M.	2013	Global Economic Inequality.	Our World in Data.org. https://ourworldindata.org/global-economic-inequality
	2018	Achieving the sustainable development goals in the least developer countries,	UNCTAD https://unctad.org/s ystem/files/official- document/aldc2018 d4_en.pdf
Hartley, D	2016	Poverty and social exclusion. In: Platt, Lucinda and Dean, Hartley, (eds.) Social Advantage and Disadvantage.	Oxford University Press, Oxford, UK, p. 3-24. ISBN 9780198737070
Henning, S. O.	2013	Beyond the current political economy of competence development.	European journal for Research on the Education and

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			(Learning of Adults 4 (2), p 153-170 - JRN: urn:nbn:de:0111-ppus-83020 - DOI: 10.3384/rela.2000-7426.rela9013
Drejer, A.	2000	Organisational learning and competence development.	1	The Learning Organization, 7 (4), b. 206-220
Soini, K., Dessein, J.	2016	Culture-Sustainability Relation: Towards a Conceptual Framework	(Sustainability, 8 (167), p. 2-12. doi:10.3390/su8020
Parodi, O.	2015	The missing aspect of culture in sustainability concepts. Theories of Sustainable Development.	F ii C	Routledge Studies n Sustainable Development. Ed. J., C. Enders, M. Remig, p. 169 - 187.
Kopfmüller, J.	2015	A global model – universal and contextual. Theories of Sustainable Development.	F ii C	Routledge Studies n Sustainable Development Ed. J., C. Enders, M. Remig, p. 112-125.
		Recommended reading		- 3,1
Springett, D., Redclift, M.	2015	International Handbook of Sustainable Development		₋ondon: Routledge
Slaper, T. F., Hall, T. J.	2011	The Triple Bottom Line: What Is It and How Does It Work?	F	ndiana Business Review Spring
Allen, L.	2021.	What Are the Three Pillars of Sustainability?	t s	nttps://www.treehug ger.com/what-are- he-three-pillars-of- sustainability- 5189295
		The Three Pillars of Sustainability	(/	nttps://www.thwink. org/sustain/glossary ThreePillarsOfSust ainability.htm
Singh, R. K., Murty, H. R., Gupta, S. K Dikshit, A. K.	2012	An Overview of Sustainability assessment methodologies		Ecological ndicators
		The Sustainable Development goals report 2020.	g	https://unstats.un.or g/sdgs/report/2020/
		The Sustainable Development goals report 2019. The Sustainable Development goals	g	https://unstats.un.or g/sdgs/report/2019 https://www.un.org/
		report 2018.	r s	development/desa/ bublications/the- sustainable- development-goals- report-2018.html
	2017	Responsible consumption and production	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SDG Atlas. The World Bank https://datatopics.worldbank.org/sdgatlas/archive/2017/SDG-12-responsible-consumption-andproduction.html
	2008	Sustainable Consumption. Facts and Trends.	(((Norld Business Council for Sustainable Development https://docs.wbcsd.

			org/2008/11/Sustain ableConsumptionFa ctsAndTrends.pdf
Heinze, J.	2020	The Impact of Globalisation on Poverty and Inequality in the Global South	E-International Relations https://www.e- ir.info/pdf/82385
Hammonds, R., Hanefeld, J., Ooms, G.	2019	Accountability as a driver of health equity	World Health organization. https://apps.who.int/iris/bitstream/handle /10665/312282/978 9289054096-eng.pdf?sequence= 1&isAllowed=y
		Poverty.	The World Bank https://www.worldbank.org/en/topic/poverty/overview#1
Hall, C. M.	2015	Global Change, Islands and Sustainable Development.	International Handbook of Sustainable Development. London, Routledge
Kock, H., Ellström, P-E.	2011	Formal and integrated strategies for competence development in SMEs.	Journal of European Industrial Training, 35 (1), p. 71-88.
	2011	Learn 10 Things Why It Is Important to Preserve Culture.	The language doctors. https://thelanguage doctors.org/why-it-is-important-to-preserve-culture/
Duxbury, N., Gillette, E.	2007	Culture as a Key Dimension of Sustainability: Exploring Concepts, Themes, and Models	Creative City Network of Canada
Leach, M.	2015	Gender Equality and Sustainable Development.	London, Routledge.