

I SYLLABUS OF EDUCATIONAL DISCIPLINE

1. General information on the course	
Full course name	International environmental policy and sustainable development
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Educational and Scientific Institute of Business Technologies “UAB”
Author	Kurbatova T.O., Ph.D. in Economics, Senior Lecturer of International Economic Relations Department
Cycle/higher education level	NFQ of Ukraine – 6th level, FQ-EHEA – First Cycle, QF-LLL – 6th level
Semester	6
Credit value	150/5
Language	English
2. Place in the study programme	
Relation to curriculum	Optional discipline
Prerequisites	None
Additional requirements	None
Restrictions	None
3. Aim of the course	
<p>The aim of the course “International Environmental Policy and Sustainable Development” is to familiarize students with the global environmental problems and the conceptual bases of sustainable development, to acquire knowledge regarding the formation and implementation of international environmental policy and measures aimed at achieving the sustainable development goals</p>	
4. Contents	
<p>THEME 1. GLOBAL ENVIRONMENTAL ISSUES AND ENVIRONMENTAL POLICY. Content of the course “International Environmental Policy and Sustainable Development”. Global environmental problems. Environmental policy: meaning and goals. Directions of environmental policy. Types of environmental policy: reformism and radicalism. Green parties and movements. Environmental education.</p>	
<p>THEME 2. SUSTAINABLE DEVELOPMENT CONCEPT. The essence of the sustainable development concept. Prerequisites for sustainable development. History of sustainable development concept. Economic growth and sustainable development. Social, economic and environmental sustainability. Sustainable development principles. Sustainable development indicators. Sustainable development strategies.</p>	
<p>THEME 3. SUSTAINABLE DEVELOPMENT GOALS. Global Sustainable Development Goals: no poverty; quality education; gender equality;</p>	

affordable and clean energy; industry, innovation and infrastructure; sustainable development of cities and communities; responsible consumption and production; mitigation of climate change; peace, justice and strong institutions; partnership for sustainable development, etc. Conservative and progressive approaches to achieve sustainable development goals.

THEME 4. GLOBAL DEMOGRAPHIC PROCESSES AND POPULATION CONTROL POLICY.

Causes of overpopulation. Effects of overpopulation. Types of population control policy. Measures of population control policy. Population control policy in China and India. Measures adopted globally to reduce population growth.

THEME 5. GLOBAL WARMING AND CLIMATE CHANGE.

Defining global warming and climate change. Natural and human enhanced greenhouse effect. Types of greenhouse gases. Trends in global greenhouse gas emissions (by types of greenhouse gases, by industries, by countries). Dynamics and indicators of global warming. Consequences of global warming and climate change.

THEME 6. GLOBAL CLIMATE AGREEMENTS.

The Kyoto Protocol. Flexible Kyoto Protocol Mechanisms: Clean Development Mechanism; Emissions Trading; Joint Implementation. Commitment of Ukraine under the Kyoto Protocol and results of implementation of its mechanisms. Disadvantages of the Kyoto Protocol. Paris Climate Agreement. Ukraine's commitments under the Paris Climate Agreement.

THEME 7. OZONE LAYER DEPLETION.

Understanding ozone layer and ultraviolet radiation. Causes of ozone layer depletion. The main ozone depleting substances. Ozone layer depletion process. Effects of ozone layer depletion. Stratospheric ozone concentration. Ozone concentration in Antarctic ozone hole area. The Montreal Protocol. Vienna Convention for the Protection of the Ozone Layer.

THEME 8. WASTE PRODUCTION AND MANAGEMENT.

Type of waste. Global trends in waste generation and management. Impact of waste on the environment. "3Rs" concept. Recycling. Problem of world ocean pollution. The Great Pacific Garbage Patch. The World Bank and global waste management. Waste management in the European Union and Ukraine.

THEME 9. RENEWABLE ENERGY AND SUPPORT POLICY.

Defining renewable energy. Advantages and disadvantages of renewable energy sources. Renewable energy technologies. Renewable energy policy and economic tools aimed at encouraging energy generation from renewable energy resources. Global trends in renewable energy development. Ukrainian sector of renewable energy.

THEME 10. SUSTAINABLE TRANSPORT.

Impact of the transport sector on the environment. Transport demand management strategies. Green logistics. Analysis of European Union standards in the field of sustainable transport. Renewable energy sources for the transport sector. The concept of sustainable transport development in Ukraine.

THEME 11. EUROPEAN UNION'S ENVIRONMENT POLICY.

Principles of European Union's environment policy. The main directions of European Union

environment policy. The 7th Environment Action Program. European Union's environment policy in climate, energy and energy efficiency, waste, and transport fields.

THEME 12. ENVIRONMENTAL POLICY OF UKRAINE.

The current state of the environment in Ukraine. Strategy of the state environmental policy of Ukraine for the period till 2030. Economic measures to stimulate low carbon growth in Ukraine. Ukraine's commitments under global environmental agreements.

5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO5.	To demonstrate abstract thinking, apply research methodologies; to identify and formalize problems; to organize the information received; to evaluate and explain the impact of endogenous and exogenous factors on processes and phenomena in the world economy; to formulate conclusions and develop recommendations with the aim to adapting to the new situation taking into account the particularities of the national and international environment
LO12.	To identify the functional characteristics, nature, level and degree of interconnections between the actors of international economic relations of various levels and establish communication between them
LO19.	To understand, highlight and describe new phenomena, processes and trends in global development; to identify mechanisms and tools for implementing economic policy and global integration / disintegration processes

6. Role of the course in the achievement of programme learning outcomes

7. Teaching and learning activities

7.1 Types of training

There are two types of training – lectures (L) and seminar classes (SC).

THEME 1.

L 1. Global Environmental Issues and Environmental Policy

Global environmental issues: causes and consequences. Goals of environmental policy. Reformal and radical ways of solving environmental problems. Mechanisms, levers, instruments of environmental policy.

SC 1. Global Environmental Issues and Environmental Policy

Values and directions of environmental policy. Green parties. Environmental movements "Greenpeace" and "Friends of the Earth". Environmental education.

THEME 2.

L 2. Sustainable Development Concept.

The essence of the sustainable development concept. The paradigm of sustainable development. Components of sustainable development concepts. Economic growth and sustainable development. Sustainable development indicators. Sustainable development strategies.

SC 2. Sustainable Development Concept.

History of sustainable development concept. Social, economic and environmental

sustainability. Sustainable development indicators. Sustainable development strategies.

THEME 3.

L 3. Sustainable Development Goals.

Global sustainable development goals: no poverty; quality education; gender equality; affordable and clean energy; industry, innovation and infrastructure; sustainable development of cities and communities; responsible consumption and production. Conservative approach to achieve sustainable development goals.

SC 3. Sustainable Development Goals.

Global sustainable development goals: mitigation of climate change; peace, justice and strong institutions; partnership for sustainable development, etc. Progressive approaches to achieve sustainable development goals.

THEME 4.

L 4. Global Demographic Processes and Population Control Policy.

Causes of overpopulation. Malthus Population Theory. Measures of population control policy. Effects of overpopulation. Population control policy in China.

SC 4. Global demographic processes and population control policy.

Analysis of demographic situation in Ukraine and the world. Effects of overpopulation. Types of population control policy. Basic elements of population control policy. Population control policy in India.

THEME 5.

L 5. Global Warming and Climate Change.

Causes of global warming and climate change. Natural greenhouse effect. Types of greenhouse gases. Dynamics of global temperature. Indicators and effects of global warming and climate change.

SC 5. Global Warming and Climate Change

The primary factors for changing the temperature of the planet. Greenhouse effect. Dynamics of greenhouse gas emissions by types of greenhouse gases, by industries, and by countries. Consequences of global warming. Critique of global warming.

THEME 6.

L 6. Global Climate Agreements.

Mechanisms of the Kyoto Protocol: Clean Development Mechanism; Emissions Trading; Joint Implementation. Shortcomings of the Kyoto Protocol. The Paris Climate Agreement.

SC 6. Global Climate Agreements.

Ukraine's commitment under the Kyoto Protocol and the results of its implementation. The goals of the Paris Climate Agreement. Ukraine's commitments under the Paris Climate Agreement.

THEME 7.

L 7. Ozone Layer Depletion.

Causes of ozone layer depletion. Ozone holes. Consequences of ozone layer depletion. Basic provisions of the Montreal Protocol. Dynamics of ozone layer recovery.

SC 7. Ozone Layer Depletion.

The main substances that destroy the ozone layer. Stratospheric ozone concentration. Vienna Convention for the Protection of the Ozone Layer. Forecast of ozone layer recovery over the Antarctic.

THEME 8.

L 8. Waste Production and Management.

Global trends in waste generation and management. Environmental impacts of solid waste disposal. The problem of World ocean pollution. Waste management in developed and developing countries.

SC 8. Waste Production and Management.

The “3Rs” concept. Great Pacific Garbage Patch. Economic, environmental and social benefits of waste recycling. Energy utilization of waste. Waste management in the European Union and Ukraine.

THEME 9.

L 9. Renewable Energy and Support Policy.

Renewable energy technologies. Economic instruments aimed at promoting the production of energy from renewable energy resources. Smart energy systems. Trends in the development of the global renewable energy market.

SC 9. Renewable Energy and Support Policy.

Prerequisites for the renewable energy development. Advantages and disadvantages of renewable energy resources. Distribution generation. Trends in the development of the Ukrainian renewable energy sector.

THEME 10.

L 10. Sustainable Transport.

Prerequisites for the development of sustainable transport. Transport demand management strategies. Green logistics. Analysis of European Union standards in the field of sustainable transport.

SC 10. Sustainable Transport.

Impact of the transport sector on the environment. Renewable energy sources for the transport sector. The concept of sustainable transport development in Ukraine.

THEME 11.

L 11. European Union’s Environment Policy.

The objectives of the European Union’s environmental policy. Institutions of the European Union in the environmental protection field. Environmental legislation of the European Union.

SC 11. European Union’s Environment Policy.

Principles of environmental policy of the European Union. The history of the European Union’s environmental policy. European Union environment policy in climate, energy and energy efficiency, waste, and transport fields.

THEME 12.

L 12. Environmental Policy of Ukraine.

The current state of the environment in Ukraine. Strategy of the state environmental policy of Ukraine for the period till 2030. Ukraine’s commitments under global environmental agreements.

SC 12. Environmental Policy of Ukraine.

Purpose, principles and instruments of state environmental policy. Economic measures to stimulate low carbon growth in Ukraine. Institutions of Ukraine in the environmental protection field.

7.2 Learning activities

LA 1. Oral questioning within themes 1-12

LA 2. Essay to choose within themes 1-12 of the content of the discipline;
 LA 3. Doing the case-study within themes 5, 7, 9;
 LA 4. Multimedia presentations on a given list of topics within themes 1-12;
 LA 5. Debating within themes 1-12;
 LA 6. Watching educational videos within themes 5, 7, 8, 9.

8. Teaching methods

TM 1. Lectures with the using multimedia equipment;
 TM 2. Seminar classes: discussions, debates, case-study, writing essay, watching educational videos, group work, etc.

9. Methods and criteria for assessment

9.1 Assessment criteria

Assessment is carried out based on modular rating system:

Evaluation scale ECTS	Definition	National evaluation scale Mark	Rating scale of evaluation Point
A	EXCELLENT – excellent execution only with the two-bit of errors	5 (excellent)	$90 \leq RD \leq 100$
B	GOOD – in general correct work with the certain amount of errors	4 (good)	$82 \leq RD < 89$
C			$74 \leq RD < 81$
D	SATISFACTORY – not bad, but with the considerable number of errors	3 (satisfactory)	$64 \leq RD < 73$
E			$60 \leq RD < 63$
FX	UNSATISFACTORY – repeated passing is possible	2 (unsatisfactory)	$35 \leq RD < 59$
F	UNACCEPTABLE – expulsion from the University	1 (unacceptable)	$RD < 34$

9.2 Methods of formative assessment

The following methods of formative assessment are provided within the discipline: testing, evaluation of written tasks, presentation defence, self-assessment.

9.3 Methods of summative assessment

Summative assessment includes:

MSA1. Doing assignments on seminar classes (oral questioning, writing tests, independent work, etc.) – 48 points (12 seminar classes *4 points);
 MSA 2. Writing a report with defense – 22 points;
 MSA 3. The final modular control work – 30 points.

The differentiated credit is provided within discipline

10. Learning resources

10.1 Material and technical support

Multimedia-, video- and sound-based equipment
 Computers, computer systems and Internet

<p>10.2 Information and methodical support</p>	<p>The main educational literature:</p> <ol style="list-style-type: none"> 1. Norman J. Vig, Michael E. Kraft. Environmental Policy: New Directions for the Twenty-First Century. CQ Press, 2018, 456 p. 2. Walter A. Rosenbaum. Environmental Politics and Policy. CQ Press 2019, 352 p. 3. Jeffrey D. Sachs, Ban Ki-moon. The Age of Sustainable Development. Columbia University Press, 2015, 544p. 4. World Bank. Atlas of Sustainable Development Goals 2018: From World Development Indicators (World Bank Atlas). World Bank Publications, 2018, 128 p. 5. John Blewitt. Understanding Sustainable Development. Routledge, 2017 426 p. <p>Additional recommended literature:</p> <ol style="list-style-type: none"> 1. James Salzman, Barton Thompson Jr. Environmental Law and Policy. Foundation Press, 2019, 396 p. 2. Neil Carter. The Politics of the Environment. – Cambridge University Press, 2007, 434 p. 3. Børge Klemmensen, Sofie Pedersen, Kasper R. Dirckinck-Holmfeld, Anneli Marklund, Lars Rydén. Environmental Policy Legal and Economic Instruments. –The Baltic University Press, 2007, 279 p. <p>Information resources on the Internet:</p> <ol style="list-style-type: none"> 1. Greenpeace International. https://www.greenpeace.org/international. 2. Sustainable Development Knowledge Platform https://sustainabledevelopment.un.org. 3. NASA. https://www.nasa.gov.
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