

Establishment of education
"The Belarusian state economic university"

SUBMIT

Rector
of the education establishment
"The Belarusian State Economic
University"


«25» / 106 V.N. Shimov
2018

Registration № УД 3530-18/

ENVIRONMENTAL ECONOMICS WITH AN INTERNATIONAL
DIMENSION

Syllabus of educational establishment on training discipline
for specialty

1-25 81 01 « International Economics and Trade Policy»

ORIGINATOR:

Shkutsko Aksana Nikolaevna, associate professor of the department of international economy of educational establishment «Belarus State Economic University», candidate of economic sciences, associate professor.

REVIEWERS:

Kuradovec Arkadiy Iosivovich – associate professor of the department international Business of educational establishment «Belarus State Economic University», candidate of economic sciences, associate professor.

Skirko Natalia Ivanovna - associate professor of the Customs department of Faculty of the international relations Belarus State University, candidate of economic sciences, associate professor.

RECOMMENDED FOR APPROVAL:

Department of international economy of establishment of education "Belarusian state economic university"
(protocol № 11 from 05.06.2018);

Scientific - methodical Council of establishment of education "Belarusian state economic university"
(protocol № 6 from ~~22.06~~ 22.06.2018).

EXPLANATORY NOTE

Discipline «Environmental Economics with an International Dimension" is the special training course for master's degree. Undergraduates study the current state and interaction between economy and the environment, modern forms and methods of its international dimension at the present stage of development of the world economy.

The aim of the course: to give theoretical and practical knowledge about the features of the conceptual approaches to methods of interaction between the economy and the environment, including approaches to international regulation, as well as tools of environmental-economic regulation.

The objective of the course:

- explore the links and contradictions between the economic system and the environment, the economic functions of the environment;
- analysis of the concept of sustainable ecological and economic development and green economy issues;
- analysis of economic issues related to environmental pollution and use of natural resources;
- determine the economic value of natural resources and environmental services;
- study of the basic principles and tools of modern ecological and economic policy, its international aspects and economic mechanisms for solving global and transboundary environmental problems.

Learning outcomes

As a result of studying the discipline the student should know:

- theoretical basis of environmental economics;
- types and instruments for its international dimension;
- definition of ecological goods and services and trends in its trade;
- main methods in state environmental regulation;
- approaches to international dimension and definition of ecological innovations;

- main trends in environmental goods industry;
- trade liberalization in environmental goods;
- approaches to trade in environmental goods in WTO;
- challenges and opportunities from environmental goods & services negotiations.

Moreover, the student should be able to:

- determine interconnection between environment and economic growth;
- assess the influence of trade liberalization on environment and social development;
- differ the national initiatives and market regulation in environmental provisions in the WTO;
- know the Doha negotiations on liberalizing trade in EGS under the World Trade Organization (WTO);
- implement environmental performance assessment using internal and external sources of assessment.

Structure of the course and teaching methods used: the course material also is covered using a number of modalities. First, there are lectures that are designed to go over the basic material. Second, there will be practical studies based on questions that are circulated in advance. Third, during the seminars, small group of students present mini projects using multimedia presentations from required and recommended readings or debate topics. Last, it is expected, that each student will prepare a final individual presentation covering a national, international, or global development in trade in services. The purpose of these is to encourage students to research different economic trends using their own means.

The course « Environmental Economics with an International Dimension» is based on main prerequisite courses like «International Microeconomics»,

«International Macroeconomics», «International Trade Theory and Policy», «WTO Regulation and International Trading System», in the amount of study – 108 hours, including 30 hours – lectures, 6 hours – seminars.

The recommended form of control – 3 academic credits.

THE TRAINING MATERIAL CONTENT

Module 1. Interface between ecology and economy

Objectives: Explain the relationship between economy and environment. Relate the patterns of population growth and natural resources usage. Identify causes of environmental degradation. Assess the role of governments in relation to environment and development.

Environment and growth linkages: environmental assets and values, environment and economic growth, environment and population, economic growth and environment degradation, political consideration. Global trends in trade and environment interface: general equilibrium linkages, environmental aspects of Regional Trade Agreements, factor mobility and environment, Trans-frontier environmental issues.

Module 2. Basic theoretical tools

Objectives: Explain efficiency of market mechanism, underlying assumptions that ensure the efficiency properties of markets, how various sources of market failure lead to inefficiency in the market outcome and identify sources of market failure.

Market equilibrium and Pareto optimality: externalities and public goods. Theory of trade and environment. Environment, natural resources and pattern of comparative advantage (factor endowments and comparative advantage, environmental regulation and trade competitiveness, property rights and comparative advantage). Effect of trade liberalization on the environment and social welfare of countries: a partial equilibrium analysis: Small-Open Economy Case and Large-Open Economy Case.

Module 3. Environmental governance

Objectives: Explain how governments can intervene and regulate economic activity to mitigate environmental problems. List, explain and compare the available policy instruments.

Regulatory instruments (direct regulation, economic incentives, voluntary measures). National initiatives: standards (pros and cons of standards). Conservation practices (conserving forests, conserving soil, conserving water and centralized vs. decentralized policy-making). Analysis of policy from trade perspective: corrective

environment policies and gains from trade, effect of environmental policies on terms of trade, balance of payments and international pattern of specialization, environmental policy and inter-jurisdictional competition, environmental policy with rent-seeking by diverse interest groups. trade policy as a means of environmental protection: the theory of second best. Political economy of trade and environment policy. Two games to negotiate rules, environmental provisions in the WTO, multilateral environmental agreements, preferential trade agreements.

Module 4. Environmental goods and services (EGS)

Objectives: Provide an overview of the global market of environmental goods and services (EGS), and the Doha negotiations on liberalizing trade in EGS under the World Trade Organization (WTO).

Environmental goods and services (EGS): types and functions. The four phases of the environmental market. Administrative and market-based instruments to regulate environmental protection in WTO. The difference between the environmental market and trade in environmental goods and services. GATS classification of environmental services. WTO negotiations under the Doha Round: the concept of "progressive regulation", "green" procurement, incentives for foreign suppliers of energy- and resource-efficient equipment and technologies, the benefits for the supply of environmental goods for priority investment projects, etc.

Module 5. Green consumers and corporate responses

Objectives: Understand why corporations, on their own, are taking measures to prevent damage to the environment.

Corporate environmental initiatives: forms of voluntary approach and incentives for corporate environmental initiative. Environmentally friendly management: firm greening motivations and implementation. Green marketing: greening the 4 PS and green marketing strategy. ECO-innovation: definition, stimulating innovation, intellectual property rights and discouraging eco-innovation. Environmental performance assessment: internal sources of assessment, external sources of assessment. Building consumer awareness: educating the executive, educating the consumer, eco-labels and certifications programmes.

ACADEMIC MAP OF THE DISCIPLINE
for full-time form education

Number of topic	Topic and questions	Number of auditory hours					other	Forms of knowledge control
		Lectures	Practical studies	Seminars	Laboratorial studies	Managed independent work of students		
1	2	3	4	5	6	7	8	9
1.	Interface between ecology and economy	4		1			[2, 3, 4, 5, 6]	Survey, test
2	Basic theoretical tools	6		1			[1, 5, 7, 11, 13]	Survey, test
3	Environmental governance	6		1			[3, 4, 5, 11, 12]	Survey, test
4.	Environmental goods and services (EGS)	6		2			[3, 4, 5, 11, 14]	Survey, test
5.	Green consumers and corporate responses	8		1				
Total		30		6				

INFORMATION AND METODIC PART

Methodical recommendations on organization of independent work of masters students on training discipline

" Environmental Economics with an International Dimension "

In receiving knowledge on training discipline an important stage is the independent operation of masters students. The budget of time for independent operation on average on 2-hour classroom occupation is recommended 1,5 - 2 hours.

Main directions of independent operation of the undergraduate:

- original acquaintance with the program of a subject matter;
- acquaintance with the list of the recommended literature, its study and selection of additional literature;
- operation with the political map of the world;
- study of materials of different databases of the international economic organizations for regional trade agreements and official sites of integration associations;
- a study and extension of the material of lectures provided by the teacher due to information from additional literature, consultations;
- preparation for seminar classes in specially developed plans with a study of the main and additional literature;
- preparation for the main forms of monitoring (control inquiry, test, jobs USRS, etc.);
- preparation of the computer presentations on single questions and subjects of a subject matter;
- preparation for offset.

Normative and legal acts

Charter of the UN.

Rules of procedure of the United Nations General Assembly.

READING LIST

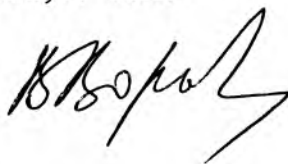
Core Textbooks

1. Herman E. Daly and Joshua Farley Ecological Economics, Second Edition, T.: 2015 – 544 p .
2. Roger Perman Yue Ma James McGilvray Michael Common. Natural Resource and Environmental Economics. - Pearson Education Limited, 2016 – 367 p.
3. Environmental and Resource Economics: An Introduction (Longman economics series). Longman; 1st ed edition, 2017 – 452 p.
4. Mick Common and Sigrid Stagl, Ecological Economics. An Introduction, Cambridge, New York, Melbourne, 2016. - 576 p.
5. United Nations Environment Programme and International Institute for Sustainable Development, (2016). Environment and Trade—A Handbook, International Institute for Sustainable Development, Chapter 1.

Дополнительная

1. World Bank Development Research Group, (2014). Greening Industry: New Roles for Communities, Markets, and Governments, Oxford University Press, Chapter 1.
 2. Hanley, N., Shogren, J.F. and White, B. (2017). "Environmental Economics in Theory and Practice" (Second Edition), Palgrave Macmillan, Chapter 13.
 3. UNCTAD (2014) "Achieving Objectives of Multilateral Environmental Agreements: A Package of Trade Measures and Positive Measures", ed. Veena Jha and Ulrich Hoffman, UNCTAD/ITCD/TED/6.
 4. Sally, R. (2017). "Looking East: The European Union's New FTA Negotiations in Asia", Jan Tumlrir Policy Essays No. 3, European Centre for International Political Economy, Brussels.
 5. OECD (2001) Environment and Regional Trade Agreements, Organization for Economic Cooperation and Development.
 6. Carbaugh, R.J., (2015). International Economics (Eighth edition), Chapter 4, South Western Thomson Learning, USA.
- Nordström, H. and Vaughan, S., (1999). Special Studies 4: Environment, World Trade Organization

PROTOCOL OF COORDINATION OF THE TRAINING PROGRAM

Name of the discipline with which to negotiate	Name of the department	Proposals for changes in the content of the curriculum studied academic discipline	Action taken by the Department that developed the curriculum (with date and non-Protocol)
1	2	3	4
Macroeconomic (advanced level)	Department of economic theories	No Vorob, ev V.A. 	To correct a subject 2 of a subject matter to eliminate duplicating. The protocol No. 11 of 05.06.2018.

**ДОПОЛНЕНИЯ И ИЗМЕНЕНИЯ К УЧЕБНОЙ ПРОГРАММЕ
ПО ИЗУЧАЕМОЙ УЧЕБНОЙ ДИСЦИПЛИНЕ**

на / учебный год

№ пп	Дополнения и изменения	Основание

Учебная программа пересмотрена и одобрена на заседании кафедры
(протокол № ____ от _____ 201 г.)

Заведующий кафедрой

Д.э.н, профессор

(подпись)

А.А. Праневич

УТВЕРЖДАЮ

Декан факультета

к.э.н, доцент

(подпись)

В.Ю. Шутилин