UNIVERSITY OF NATIONAL AND WORLD ECONOMY

Adopted by the Faculty Council Decision of Faculty of …… protocol № ….. / ……

Approved by:

Dean – Assoc. Prof. Svetla Boneva, PhD

COURSE SYLLABUS

Course	***Climate Changes and Economic Growth***
Educational and Scientific Degree	***PhD***
Course Category	***Optional (block B)***
Area of Study	***3. Social, Economic and Law Sciences***
Field of Study	**3.8. Economics**
PhD Programme	***World Economy and International Economic Relations***
Faculty	***International Economics and Politics***
Department	***International Relations***
Academic Hours	**0**
Extracurricular Academic Hours	**250 h**
Credits	**10 ECTS**
Lecturer	***Assoc. Prof. Boyko Valtchev*** ***Associate Professor Andrey Georgiev, PhD***

1. COURSE DESCRIPTION

The course gives basic knowledge to students about central ideas and concepts for understanding the main characteristics of climate change related issues and their specific relations with conditions for growth and economic development. Among the objectives set in this course, it is important to consider the different aspects of the climate-growth relationship as one of the central problems of the modern world with a strong influence on the dynamics and governance of global economy. In this respect, attention is paid not only to the actions of states, but also to international organizations, non-state social actors and also to transnational mining, energy, industrial and banking corporate formations.

A substantial part of this course focuses on policies for curbing climate change in their mutual conditionality and mutual constraint with economic growth and/ or catching up policies of the whole spectrum of international actors. The significance and effects of the Kyoto and Paris agreements, as well as the subsequent arrangements and trends are explored in an evolutionary way. Special attention is paid to the role and turnaround in the actions of the United States, China, the EU, various groups of developing countries, and also of Bulgaria as an integrative and individual participant.

2. CONTENT

№	TOPIC
1	**THE CLIMATE FACTOR IN WORLD AFFAIRS** *External environment. Natural determinism and progress. The climate and the formation and development of nations and states.*
2	**CONCEPT FOR GLOBAL PROBLEMS** *General characteristics of global problems. Criteria for definition. Classification groups. Environmental and climate problems.*
3	**ECONOMIC GLOBALIZATION AND CLIMATE PROBLEMS** *Catalyzing and/ or mitigating climate changes. Stages of combining and counteracting economic growth.*
4	**SUSTAINABLE DEVELOPMENT AND CLIMATE CHANGES** *Ratios between economic growth and environmental protection. Alternative and traditional energy sources.*
5	**INTERACTIONS FOR COPING WITH CLIMATE CHANGES** *Regional and international cooperation. Unilaterality. Multilateralism. Minilateralism. Fragmentation.*
6	**INTERNATIONAL ORGANIZATIONS AND NON-STATE PARTICIPANTS** *Typology of actors. Priorities. Interactions. International forums and conferences.*
7	**MITIGATION, CLIMATE CHANGES, GROWTH** *Concept for mitigation. Opportunities and restrictions of mitigation policies.*
8	**ADAPTATION, CLIMATE CHANGES, GROWTH** *Concept for adaptation. Opportunities and restrictions of adaptive behavior.*
9	**ENVIRONMENTAL REFUGEES AND REFUGEE FLOWS** *Problem scale. Status and treatment of this category of refugees.*
10	**KYOTO PROTOCOL** *Significance and balance. Mechanisms. Participation and opt-out. Emission allowance trading. Controversy over the opportunities for economic growth.*
11	**PARIS AGREEMENT** *Nature of the agreement and participants. Disputes over temperature limits. Commitments. Self-control and control. Prospects.*
12	**THE ROLE OF THE USA** *Evolution in the US position. Co-ordination with the most important participants in Paris. The "America over everything" turnabout. The crisis of global regulation and climate problems.*
13	**THE ROLE OF CHINA**

	The most visible contradiction between growth and environmental problems. Adaptation of the Chinese position. Opportunities for global leadership on this issue.
14	**THE ROLE OF DEVELOPING COUNTRIES** *Economic development as a basis for synergy. Causes of differences. Groupings of developing countries.*
15	**THE ROLE OF THE EUROPEAN UNION** *A review of global leadership on the issue. Common position, internal differences, inclusion in various external formats. For the so-called Leadiation.*
16	**THE CLIMATE POLICIES OF BULGARIA** *Compatibility and differences with the European priorities. Administrative, legislative, economic and educational measures in Bulgaria.*

3. INDIVIDUAL COURSE PREPARATION

Individual work of the PhD student is a basic form of preparation for the exam. It includes systematic studying of sources; preparing a detailed resume on each of the topics of the course program, and also a further contemplation of course subject in view of the objectives of the dissertation research in the form of an individual assignment. Discussions and guidance offered during individual consultations and contact hours provide organizational and thematic support, as well as progress assurance for preparation on particular topics. On the whole, students are supported in developing an in-depth understanding of approaches and concepts related to theoretical aspects and forms of climate changes and economic growth governance.

4. ASSESSMENT

Assessment on this course is based on presenting a research paper as an individual assignment related to the course program.

The final grade is based on a six-point scale, in which the lowest grade for successful completion of the course is Good (4). Converted to the ECTS grading scale, the grades are as follows:

Excellent /6/	Very Good /5/	Good /4/	Average /3/		Poor /2/	
A	**B**	**C**	**D**	**E**	**FX**	**F**
The corresponding number of ECTS credit points is being allocated (10 credits are awarded)			No ECTS credit points are being allocated			

The exam shall be held in offline mode for the full-time PhD students, unless stated otherwise in a Rector's order. For the part-time PhD students and for those taking independent study courses the exam can be held in online mode.

5. DOCTORAL ACTIVITIES

Type of classes/employment	Lectures	Extracurricular Activity	Total
1. *Individual consultations, tutorials*	0	20	20
2. Study of specialized literature	0	60	60
3. Preparation of individual assignment	0	100	100
4. Individual study/preparation for exam	0	70	70

5. Other forms:	0		
6. ……..			
Total	0	250	**250**

6. LITERATURE

A. BASIC

1. Valchev B., The climate changes and global management . 2021. Economic and social alternatives , issue 2, 2021
2. Khurshid N, Fiaz A, Khurshid J, Ali K, Impact of climate change shocks on economic growth: A new insight from non-linear analysis, Front. Environ. Sci., 25 October 2022, Sec. Environmental Economics and Management, Volume 10 - 2022
3. Alexandrov , Veselin . " Climatic changes ". 2010. http://global-change.meteo.bg/bro6ura.pdf
4. Oberthur, Sebastian. Lisanne Groen. The European Union and the Paris Agreement: leader, mediator, or bystander?: The European Union and the Paris Agreement. 2016

B. ADDITIONAL

1. Bădîrcea R., Manta A., et.al, Connecting Blue Economy and Economic Growth to Climate Change: Evidence from European Union Countries, Energies 2021, 14(15)
2. João J.M. Ferreira, Cristina I. Fernandes, Fernando A.F. Ferreira, Technology transfer, climate change mitigation, and environmental patent impact on sustainability and economic growth: A comparison of European countries, Technological Forecasting and Social Change, Volume 150, January 2020
3. Lunte, Stefan. The "Winter Package" of the European Commission. 2017. http://www.europeinfos. eu/the-winter-package-of-the-european-commission
4. Watts, Anthony. East European States Mount revolt Against Paris Agreement. 2017.

The course syllabus is approved by the Department Council of „International Relations" on …… (…… № ……/……).

Lecturer *Assoc. Prof. Boyko Valchev, PhD*

Assoc. Prof. Andrey Georgiev, PhD

Head of Department *Assoc. Prof. Plamen Ralchev, PhD*