


**Ministry of Education and Science of Ukraine**  
**Sumy National Agrarian University**

**Public Management and Administration Department**

«CONFIRMED»  
Head of Public Management and  
Administration Department  
  
« \_\_\_\_\_ » 2020  
(Slavkova O.P.)

**CURRICULUM(SYLLABUS)**

**Regional Economics**

**Specialty: 073 "Management"**  
**Educational program: *Management***  
**Faculty: Economic and Management**


**2020–2021 academic year**

Curriculum of normative discipline "Regional Economics" for students specialty: 073 "Management".

Author: *Phd, Assistant Professor Brychko A.M.* 

Curriculum approved on meeting of the Department of Public Management and Administration.

Protocol № 15 from " 23 " 06\_ 2020 y.

Head of Public Management and Administration Department  (Slavkova O.P.)

Approved:

Guarantor of educational and professional program (project team leader)

 **L.I. Rybina**

Dean of the Faculty

 (Strochenko N.I.)  
(where the course is studied)

Methodist of the Department of Education Quality, licensing and accreditation

 **F. Boy**

Registered in electronic base: (date):

10.07. 2020 y.

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### I. Description of educational discipline

Name of indicators	Industry knowledge training direction, education and qualification level	Description of educational discipline
Number of credits - 4	Branch of knowledge 07 "Management and administration"	full-time students
Module - 2	Specialty: 073 Management	Normative
Content modules: 4		Year of training: 2020-2021
Total hours - 120		Course 2
		Semester 3
		Lectures 30 hours
		Practical classes 30 hours
		Independent work 60 hours
		Individual tasks
		Forms of control:
		Rating control of a 100-point scale assessment ECTS
		An intermediate control during the semester (interim attestation)
		Criteria assess the work of students: The level of knowledge demonstrated in practical classes; Activity in the discussion of issues submitted for the class; Quick control during classes; Independent study topics in general or specific issues; Perform analytical calculation tasks; Writing papers, essays, reports, Test results; Writing assignments during the tests.
Week classes for full day studying: classes - 4 individual - 4	Qualification level - Bachelor	<b>Exam</b>

Ratio of number of hours of classroom training for independent and individual work are:

for full-time students - 50/50 (60/60)

## 2. Aim and Tasks

**The purpose of discipline** is to develop knowledge of the theoretical and practical bases of the territorial organization of the productive forces of Ukraine, the current state and trends of regional economic development, ecological knowledge, thinking and ecological worldview, development of ecological consciousness.

**Objective:** assimilation theory of regional economy and regional development, the scientific foundations of regional economic policy, acquisition of knowledge about territorial and sectoral structure of economic complex of Ukraine and its regions; objective need for rational and efficient use of natural, scientific, industrial and human resources regions, territorial industry structure and economic complex scientific principles of state regional policy; to acquire theoretical knowledge and practical skills as to the relations among enterprises, legal entities in the sphere of the ecological economics of nature management, as well as to provide future specialists with theoretical knowledge and practical skills in order to make decisions in the sphere of ecological economics relations. The object of analysis of the economics of nature management is the surrounding natural environment with its natural and artificial components, as well as natural resources in all their diversity.

The study of the discipline " Regional Economics " involves the formation of students' competencies (derived from the educational and professional program):

№	Type of program competencies	Program competence	Code
	<b>General</b>		
1		Ability to solve complex, specialized problems and practical problems in the learning process, which involves the use of appropriate theories and methods and is characterized by complexity and uncertainty of conditions	IK
2		Ability to abstract thinking, analysis and synthesis	3K3
3		Ability to apply knowledge in practical situations	3K4
		Ability to learn and master modern knowledge	3K9
4		Ability to generate new ideas	3K12
	<b>Professional (special)</b>		
1		Ability to analyze the results of the organization, to compare with the factors of external and internal environment.	ΦK2

### 2.3 Program learning outcomes

As a result of studying the discipline " Regional Economics " student should be able to demonstrate the following learning outcomes (derived from the educational-professional program):

№	Program learning outcomes	Code
1.	Know and understand the economic categories, laws, causal and functional relationships that exist between processes and phenomena at different levels of economic systems.	ППП
2.	Apply the acquired theoretical knowledge to solve practical problems and meaningfully interpret the results	ППП

### **3. Program of Discipline** *(approved by protocol # 11, from 22.04.2019)*

#### ***Content module 1. Theoretical foundations of Regional Economics***

**Theme 1. Subject, method and objectives of discipline "Regional economy"**. Definition of the course. Methods and methodological foundations of course "Regional economy". Connectivity to economic theory, statistics, economic and other sectoral disciplines. Objectives and structure of the course "Regional economy".

**Theme 2. Main laws, principles and factors of productive forces and the formation of economic regions.** Economic laws and regularities of production location, their objective. Regularities and modern integration processes. The most important principles of productive forces. The decisive role of economic and social factors in the distribution of production. The impact of scientific and technological progress of productive forces. The main directions of development and improvement of territorial organization of production.

**Theme 3. Economic division into districts of Ukraine and territorial organization of economy.** Economic regionalization as a scientific method of territorial organization of the economy. The economic area, its main features, areas forming factors. The principles of economic regionalization. Features modern network zoning and economic areas. Improving territorial organization and structure of the economy.

**Theme 4. Regions in the system of territorial division of labor.** Characteristics of the territorial division of labor as the basis for the formation of economic regions. Determining the impact of economic specialization areas and methods of evaluation.

**Theme 5. The essence, purpose and objectives of regional economic policy.**

The essence of the state regional economic policy. Objects and subjects of the state regional policy. The main objectives and principles of the state regional economic policy. The task of the state regional policy.

**Theme 6. The mechanism of implementation of regional policy.** The concept and essence of the mechanism of realization of state regional economic policy. The main elements and key elements of the implementation mechanism of regional economic policy. Special (free) economic zones - a means of implementing regional policy. Inter-regional and cross-border cooperation - instruments implementing regional economic policy. Basic principles of public and communal sector of the regional economy.

**Theme 7. Economy of Ukraine, its structure and transformation in market conditions.** Ukraine's economy as a single economic complex. The structure of the economy. Its essence and concept. Regional features of the sectoral structure of the economy. The restructuring of of the regional economy in the marketplace.

*Content Module 2: Ukraine's economy as an integrated socio-economic system. The spatial organization of the productive forces*

**Theme 8. Natural and labor potential of national economy.** Natural resource potential and its structure. Quantitative and qualitative economic assessment of natural resources and the natural environment. Characteristics of the natural resources of the country. Resource and its importance for the development of the national economy. Population and employment potential of Ukraine. The role of the population in the economic development of Ukraine. Migration processes and their types. Features of development and resettlement of the population. State employment policy working population.

**Theme 9. Inter-branch complexes and regional features of development.** Inter-branch complexes. Structure. Fuel and energy complex. Metallurgical complex. Machine-building complex. Agrarian and industrial complex. Chemical and wood complex. Building complex.

**Theme 10. Ukraine's economy as a unity of regional socio-economic systems.** Methodological basis and nature of the regional economy. The basic prerequisites for regional economic development. The economic system of the region

as a single economic complex link. Territorial differentiation of the regions in terms of development of the productive forces. The problems of socio-economic development of regions.

**Theme 11. Economics regions of Ukraine:** Status and Prospects. Central Ukrainian Economic Region. Western Economic Region. Donets-Dnieper Region. Northeast Economic Region. Black Sea Economic Region.

**Theme 12. International economic relations of Ukraine and its integration into European and other international structures.** Foreign economic activity in Ukraine a market economy. Economic ties Ukraine CIS countries. Export potential and realization of competitive advantages of the Ukrainian economy. Ukraine's transit potential and its use.

**Theme 13. Factors of productive forces development.** Natural resource development factors productive forces. Energy for sustainable development of the productive forces. Water factor in the development of the productive forces. Trudeau-resource factors of sustainable development of the productive forces. Consumer factor in the development of productive forces. The transport factor of sustainable development of the productive forces. Scientific and technological progress as a factor of sustainable development of the productive forces. Factor market conditions of the productive forces Factor historical and geographical situation of the productive forces. The environmental factor in the development of productive forces.

*Content module 3. Socio-ecological and economic principles of rational use of nature*

**Theme 14. Basic concepts of ecology.** Definitions and basic concepts of ecology. Human society and environment of its existence. The main environmental laws. Law About environmental audit.

**Theme 15. The impact of human activity on the environment.** Demographic challenges and opportunities of the biosphere. The main sources of anthropogenic pollution. Socio-ecological problems. Law About flora.

**Theme 16. The essence of Ecological Economics.** The definition of ecological economics. The scope and principles of ecological economics. Law About environmental protection.

**Theme 17. Basic Laws of Ecological Economics.** The Law of Coordinated Ecological Economic Development. The law of ecological economic industry chain. The law of diminishing ecological demands. The law of increasing ecological value. Law about environmental impact assessment.

*Content module 4. Financial and economic mechanism of nature management*

**Theme 18. A Green Agriculture Theory System.** Essence of a Green Agriculture Theory System. The Practical Function of Green Agriculture Research and Practice. International Natural Resources.

**Theme 19. Environment protection.** Control and monitoring of the environment in Ukraine. Environmental business activity. Economic aspects of environmental protection. International cooperation in the field of environmental protection.

**Theme 20. Environmental risk and insurance**

Essence of environmental risk. Environmental liability: compensation and deterrence. The modern environmental liability insurance approaches. Ecological problems: Ozone Layer and Water pollution.

#### 4. Structure of training discipline

Name of content modules and topics	Number of hours			
	total	also		
		Lectures	PC	IW
1	2	3	4	5
<b>Content module 1. Theoretical foundations of Regional Economics</b>				
Theme 1. Subject, method and tasks of Regional Economics.	4	2	2	-
Theme 2. Main laws, principles and factors of ARF and formation of economical regions.	4	2	2	-
Theme 3. Economic division into districts of Ukraine and territorial organization of economy	6	2	2	2
Theme 4 Regions in the system of territorial division of labor.	4	-	-	4
Theme 5. The essence, purpose and objectives of regional economic policy.	4	-	-	4
Theme 6. The mechanism of implementation of regional policy.	4	-	-	4
Theme 7. Economy of Ukraine, its structure and transformation in market conditions	6	2	2	2
Content Module 1 Total	32	8	8	16
<b>Content module 2. Ukraine's economy as an integrated socio-economic system. The spatial organization of the productive forces</b>				
Theme 8. Natural and labor potential of national economy.	6	2	2	2
Theme 9. Inter-branch complexes and regional features of development	6	2	2	2
Theme 10. Ukraine's economy as a unity of regional socio-economic systems.	4	-	-	4
Theme 11. Economy of Regions of Ukraine	6	2	2	2
Theme 12. International economic relations of Ukraine and its integration into European and other international structures	6	2	2	2
Theme 13. Factors of productive forces development	4	-	-	4
Content Module 2 Total	32	8	8	16
<b>Content module 3. Socio-ecological and economic principles of rational use of nature</b>				
Theme 14. Basic concepts of ecology.	8	2	2	4
Theme 15. The impact of human activity on the environment.	8	2	2	4
Theme 16. The essence of Ecological Economics.	8	2	2	4
Theme 17. Basic Laws of Ecological Economics.	8	2	2	4
Content Module 3 Total	32	8	8	16
<b>Content module 4. Financial and economic mechanism of nature management</b>				
Theme 18. A Green Agriculture Theory System.	8	2	2	4
Theme 19. Environment protection.	8	2	2	4
Theme 20. Environmental risk and insurance	8	2	2	4
Content Module 4 Total	24	6	6	12
<b>TOTAL</b>	<b>120</b>	<b>30</b>	<b>30</b>	<b>60</b>



## 5. Topics and plans of lectures

№	Name of topics	Quantity of hours
1	Subject, method and tasks of Regional Economics. 1. Subject of science. 2. Methodology of a science. 3. Connections with other sciences.	2
2	Main laws, principles and factors of ARF and formation of economical regions. 1. Economical laws and regularities of APF. 2. Regularities and modern integration process. 3. Main principles of APF. 4. Economic and social factors in APF. 5. SIP and APF.	2
3	Economic division into districts of Ukraine and territorial organization of economy Economic division into districts as a scientific method of territorial organization of economy Economic district. Main aspects. Principles of economic division into districts. Modern economic district in Ukraine.	2
4	Economy of Ukraine, its structure and transformation in market conditions 1. Ukraine's economy as the single national economic complex. 2. Economic structure, its essence and concept 3. Regional features of the sectoral structure of economy 4. Restructuring of the regional economy	2
5	Natural and labor potential of national economy. 1. Natural resources potential and its structure. 2. Quantitative and qualitative economic estimation of natural resources and environmental conditions. 3. Characteristics of natural resources of the country 4. Population and employment potential of Ukraine. The role of population in developing Ukraine's economy. 5. Migration processes and their types 6. Characteristic of population resettlement 7. State employment policy of working population	2
6	Inter-branch complexes and regional features of development 1. Inter-branch complexes. Structure. 2. Fuel and energy complex 3. Metallurgical complex 4. Machine-building complex 5. Agrarian and industrial complex 6. Chemical and wood complex 7. Building complex	2
7	Economy of Regions of Ukraine 1. Central Ukrainian Economic Region 2. Western Economic Region 3. Donets-Dnieper Region 4. Northeast Economic Region 5. Black Sea Economic Region	2
8	International economic relations of Ukraine and its integration into European and other international structures 1. Foreign trade of Ukraine in modern market economy 2. Ukraine and CIC. Economic activity 3. The essence of economic integration	2
9	Basic concepts of ecology	2

	1. Definitions and basic concepts of ecology 2. Human society and environment of its existence. 3. The main environmental laws.	
10	The impact of human activity on the environment 1. Demographic challenges and opportunities of the biosphere. 2. The main sources of anthropogenic pollution. 3. Socio-ecological problems.	2
11	The essence of Ecological Economics 1. The definition of ecological economics. 2. The scope and principles of ecological economics.	2
12	Basic Laws of Ecological Economics 1. The Law of Coordinated Ecological Economic Development. 2. The law of ecological economic industry chain. 3. The law of diminishing ecological demands. 4. The law of increasing ecological value	2
13	Green Agriculture Theory System 1. Essence of a Green Agriculture Theory System 2. The Practical Function of Green Agriculture Research and Practice.	2
14	Environment protection 1. Control and monitoring of the environment in Ukraine 2. Environmental business activity. 3. Economic aspects of environmental protection.	2
15	Environmental risk and insurance 1. Essence of environmental risk. 2. Environmental liability: compensation and deterrence. 3. The modern environmental liability insurance approaches.	2
	Total	<b>30</b>

### 6. Topics and plans of practical classes

№	Name of topics	Quantity of hours
1	Subject, method and tasks of Regional Economics	2
2	Main laws, principles and factors of ARF and formation of economical regions	2
3	Economic division into districts of Ukraine and territorial organization of economy	2
4	Natural and labor potential of national economy	2
5	Inter-branch complexes and regional features of development	2
6	Economy of Regions of Ukraine	2
7	International economic relations of Ukraine and its integration into European and other international structures	2
8	Studying of environmental factors and their classification.	2
9	General characteristics of natural resources and natural complexes.	2
10	Studing of international standards of environmental management and auditing, environmental law and environmental legislation of Ukraine	2
11	Assessment and classification of economic losses from environmental degradation and establishment of environmental damage, mechanisms of economic damage from environmental damage.	2
12	Research on the use of "green" technologies, calculation of payments for the use of natural resources.	2
13	Economic losses from anthropogenic impact on the environment and economic efficiency of environmental measures	2
14	Environmental expertise and financial-credit mechanism of environmental protection.	2
15	International experience and cooperation in the field of environmental	2

	protection, ecological education and upbringing.	
	<b>TOTAL</b>	<b>30</b>

## 7. Topics and plans of individual work

№	Name of topics	Quantity of hours
1	What is regional economics?	2
2	Three foundation stones	2
3	Levels of analysis and location units	2
4	Objectives and procedures for location choice	2
5	Location factors	4
6	Spatial patterns of differential advantage in specific location factors	4
7	Ukraine. General information.	4
8	Economy of Ukraine	4
9	Europe	4
10	European Union	4
11	Law About environmental audit.	4
12	Law About flora.	4
13	Law About environmental protection.	4
14	Law about environmental impact assessment.	4
15	International Natural Resources.	4
16	International cooperation in the field of environmental protection	4
17	Ecological problems: Ozone Layer and Water pollution.	4
	<b>Total</b>	<b>60</b>

## 9. Methods of Training

### 1. Teaching Methods:

1.1. **Verbal:** narrative, explanation, discussion (heuristic and reproductive), lecture, instruction, work with the book (read, transfer, discharge, scheduling, reviewing, summarizing, making tables, graphs, track summaries, etc.).

1.2. **Visual:** demonstration, illustration, observation.

1.3. **Practical:** Laboratory method, practical work, exercise, production practices.

### 2. Methods for studying the nature of the logic of knowledge.

2.1. **Analytical** (decomposition of the whole into parts in order to study their essential features).

2.2. **Synthesis** (with union analysis of selected elements or properties of an object, phenomenon into one).

2.3. **Inductive method** (learning objects or phenomena from the individual to the general.)

2.4. *Deductive method* (learning objects or phenomena from the general to the individual).

3. Methods for studying the nature and level of independent mental activity of students.

3.1. Problem (problem-information)

3.2. Partial search (heuristic)

3.3. Exploratory

3.4. Reproductive (essence: the ability to use learned in practice).

3.5. Explanatory demonstration

4. *Active learning methods* - the use of technical training, brainstorming, solving crosswords, competitions, debates, round tables, use of problem situations, tours, group study, self-assessment of knowledge and controlling the use of educational tests, the use of basic lectures, etc.)

5. *Interactive learning technologies* - the use of multimedia technology, interactive whiteboards and spreadsheets, case-study (method of analyzing specific situations), learning dialogue, Kahoot, Quizlet, Google classroom and others.

## **10. Methods of Control**

1. Rating control a 100-point scale assessment ECTS

2. Conducting interim control during the semester (interim certification)

3. Polycriteria assessment of current student work: (select all that apply)

- The level of knowledge demonstrated in practical laboratory and seminars;
- Activity during the discussion of issues brought to the class;
- Results of laboratory work and protection;
- Rapid test during classroom lessons;
- Self study topics in general or specific issues;
- Perform analytical and computational tasks;
- Writing papers, essays, reports,
- Test results;
- Writing assignments during the tests;
- Production situations, cases and more.

## 11. Points

Current testing and independent work																								
Content module 1 – 12 points				Content module 2 – 12 points B				Content module 3 – 8 points				Content module 4 – 8 points				I W P	Total for modules and independent work	Attestation	Final test - exam	Sum				
T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	1	55 (40+15)	15	30	100
1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2					

### Evaluation Scale

Total points	ECTS	National rating	
		Exams, term paper, practice	credit
90 – 100	<b>A</b>	Excellent	passing
82-89	<b>B</b>	Good	
75-81	<b>C</b>		
69-74	<b>D</b>		
60-68	<b>E</b>	Satisfactory	
35-59	<b>FX</b>	Unsatisfactory	Not passing, but can have second attempt
1-34	<b>F</b>	Poor	Not passing, need additional training

**1. 90-100 points ("excellent") - (with ECTS - A - almost without errors - 90 - 100 points):**

**Theoretical part** - student systematically provides complete, specific, logical answers as oral and written. Uses more independently selected information on the topic is not limited to material or abstract teaching complex.

**Practical part** - 100-percent attendance at health facilities (except confirmed valid reasons) and total quality performance of all tasks in accordance with the guidelines. Entry and display of high skills in performing laboratory and practical problems. Independent of the preparatory phase to work on assignments, search for material to perform analytical and situational tasks, compiling individual algorithm decide tasks and situations. Protecting LPC is necessarily.

**Seminars** - 100-percent attendance at seminars (except confirmed valid reasons), active participation in repeated speeches, discussions, debates and so on. Using

information for performances of contemporary sources, not limited material outline or teaching complex, raising important questions on the topic, the ability to defend their opinion, associate material theme with the current state of events in the world of development, industry and so on.

**Individual work** - timely, complete and efficient implementation of the objectives of training complexes (tests), using sources outside the NMC. Positive performance tests 86-100%.

**Individual tasks** - timely, complete and high-quality preparation and execution descriptive tasks (jobs), settlement and graphic papers, essays, visual aids, etc.. Manifestation own initiative in the preparation and execution of individual tasks.

**Other criteria for evaluating knowledge** - responsibility, intelligence, creative line of work, creative thinking, the ability to express their own opinions and knowledge, the ability to rethink amounts of information, the ability to optimal behavior in different situations and so on.

**2. 75-89 points ("good") - (with ECTS - B - above average with a few errors - 82 - 89 points, C - generally work with a number of errors - 75 -81 points):**

**Theoretical part** - student gives full, concrete answers as oral and written. May use additional information on the topic, and not limited to material or abstract teaching complex.

**Practical part** - 80-100% presence and working of missed PSI. Complete quality performance of all tasks in accordance with the guidelines. Entry and display good skills in performing laboratory and practical problems. Possible independent of the preparatory phase to work on assignments, search for material to perform analytical and situational problems. Protecting LPC is necessarily.

**Seminars** - 80-100-percent attendance at seminars. Preparation of abstracts of missed topics. Participation in speeches, debates, discussions and more. Can be used for performances of information from contemporary sources, raising important questions on the topic, the ability to defend their opinion, associate material theme with the current state of events in the world of development, industry and so on.

**Individual work** - timely, complete and efficient implementation of the objectives of training complexes (tests), you can use additional sources of information. Positive performance tests for 71 - 85%.

**Individual tasks** - timely, complete and high-quality preparation and execution descriptive tasks (jobs), settlement and graphic papers, essays, visual aids, etc.. Possible manifestation of his own initiative in the preparation and execution of individual tasks.

**Other criteria for evaluating knowledge** - responsibility, intelligence, possible manifestation of the creative direction of work, the ability to express their own opinions and knowledge.

**3. 60-74 points ("fair") - (with ECTS - D - not bad, but a lot of mistakes - 69-74 points; E - performance meets the minimum criteria - 60 - 68 points.)**

**Theoretical part** - student gives sufficient answer both oral and written. Limited material outline or teaching complex.

**Practical part** - 80-100-percent testing missed PSI according to the guidelines. Acquiring and sufficient manifestation skills in performing laboratory practical tasks Protection LPC is not required.

**Seminars** - presence in almost all workshops. Preparation of abstracts of missed topics. Participation in the proposed teacher performances.

**Individual work** - timely performance objectives of training complexes (tests). Positive performance tests for 60 - 70%.

**Individual objectives** - Timely preparation and implementation of descriptive tasks (jobs), settlement and graphic papers, essays, visual aids, etc.

**Other criteria for evaluating knowledge** - a manifestation of the desire to gain knowledge on the subject.

**35 - 59 points ("poor") - (with ECTS-FX - need to work before you get a positive evaluation).**

**1 - 34 points ("poor") - (with ECTS - F - thorough and elaborate further work).**

## **12. Methodical support**

1. Electronic course in the discipline "Regional Economics", posted at: <https://cdn.snau.edu.ua/moodle/course/view.php?id=3224>

2. Brychko A.M. Regional Economics: Synopsis of lectures for English-speaking students for 2<sup>d</sup> course bachelor students daily form of education. Speciality 073 «Management», Sumy, SNAU, 2020. 79 p. (Протокол № 5 від 26.03.20)

3. Brychko A.M. Regional Economics: Methodical guidelines of practical lessons and independent work for English-speaking students for 2<sup>d</sup> course bachelor students daily form of education. Speciality 073 «Management», Sumy, SNAU, 2020. – 40 p. (Протокол № 6 від 10.04.20)

### **13. Literature**

#### **Main**

1. Iwan J.Azis Regional Economics. Fundamental Concepts, Policies, and Institutions. Cornell University, USA. 2020. 184 p.
2. EDGAR M. HOOVER AND FRANK GIARRATANI An Introduction to Regional Economics. Electronic source: <http://www.freetextbooklist.com/an-introduction-to-regional-economics>
3. Managerial Economics: Foundations of Business Analysis and Strategy / Edition 11 by Christopher Thomas, S. Charles Maurice. Pub. Date: October 2012. Publisher: McGraw-Hill Higher Education
4. Graduate Migration and Regional Development. An International Perspective / Edited by Jonathan Corcoran, Professor of Human Geography, 2017, Italy.
5. Handbook of Regions and Competitiveness. Contemporary Theories and Perspectives on Economic Development / Edited by Robert Huggins, Professor of Economic Geography and Director, 2017, UK. 592 p.
6. Entrepreneurship, Innovation and Regional Development / Edited by David Smallbone, Professor of Small Business and Entrepreneurship, UK, Markku Virtanen, Latvia. 2016. 224 p.
7. Introduction to Regional Economic Development, Major Theories and Basic Analytical Tools / Mustafa Dinc, The World Bank, US. 2017. 224 p.

#### **Additional**

1. Introduction to Financial Economics / Edition 1 by Frank J. Fabozzi, Ted Neave, Guofu Zhou. Pub. Date: November 2011. Publisher: Wiley, John & Sons, Incorporated.
2. Financial Economics / Edition 1 by Jurgen Eichberger, Ian R. Harper, J. Rgen Eichberger. Pub. Date: April 2007. Publisher: Oxford University Press, USA.



3. Distress Investing: Principles and Technique / Edition 1 by Martin J. Whitman, Fernando Diz. Pub. Date: April 2009. Publisher: Wiley, John & Sons, Incorporated.
4. Du Ping (2016) Famous agricultural experts on “green agriculture”. China Rep 3:62–68
5. Devinnny JS, Deshusses MA, Webster TS (2015) Biofiltration for air pollution control. CRC-Lewis Publishers, Boca Raton, pp 28–34.
6. Lu Liangshu, Sun Junmao (2015) Innovate the mode of modern agriculture to boost the development of green agriculture. China Rep 5:96–97.
7. Allaby M (2015) Basics of environmental science, 2nd edn. Taylor & Francis, London.
8. Anand SV (2014) Global environmental issues. Open Access Sci Rep 2:632. doi:10.4172/scientificreports, 632.
9. Cassar M (2015) Climate change and the historic environment. Centre for sustainable heritage, University College London, London .
10. Patz JA, Epstein PR, Burke TA, Balbus JM (2016) Global climate change and emerging infectious diseases. J Am Med Assoc 275:217–223.

#### **Another sources**

1. [www.agroua.net](http://www.agroua.net)
2. [www.usaid.com](http://www.usaid.com)
3. [www.farm.org](http://www.farm.org)
4. [www.aiaee.org](http://www.aiaee.org)
5. [www.usda.gov.com](http://www.usda.gov.com)
6. [www.minapk.gov.ua](http://www.minapk.gov.ua)
7. Population Reference Bureau (2011)  
[http://www.prb.org/pdf11/2011population-data-sheet\\_eng](http://www.prb.org/pdf11/2011population-data-sheet_eng).
8. THE ECONOMIC THEORY OF RISK AND INSURANCE, Allan H. Wilier (Introduction by Glenn Meyers)  
<https://www.casact.org/pubs/forum/91wforum/91wf469.pdf>
9. Insurance Fundamentals, Dearbon Career Development, 2014.  
28p.<https://d3epuodzu3wuis.cloudfront.net/R014.pdf>