MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE CHERNIHIV NATIONAL UNIVERSITY OF TECHNOLOGY EDUCATIONAL-SCIENTIFIC INSTITUTE OF ECONOMICS



EDUCATIONAL AND SCIENTIFIC PROGRAM ECONOMICS Of the third level of higher education in the specialty 051 "Economics" Field of Study 05 "Social and Behavioral Sciences" Qualification: PhD

APPROVED BY THE ACADEMIC BOARD

The Head of the Academic Board

_____/ S. Shkarlet/

(Protocol No.____ of _____)

The study program is put into operation from September 01, 20_____ Rector_____/ S. Shkarlet/ (Order No. _____ of _____)

Chernihiv 2016

PREFACE

Educational and scientific program 'Economics' for training students of the third level of higher education in the specialty 051 Economics contains the requirements for those who can take up the training, the list of academic disciplines and their logical sequence, the amount of ECTS credits necessary to complete the program, intended learning outcomes (competences) acquired by a higher education student.

Developed by the working group of the specialty 051 'Economics' including:

1. V. Marhasova, Doctor of Economic Sciences, Professor, the Head of the Department of Accounting, Taxation and Audit;

2. S.Shkarlet, Doctor of Economic Sciences, Professor, Rector of CNUT

3. Zh. Derii, Doctor of Economic Sciences, Professor, the Head of the Department of Theoretical and Applied Economics

4. A. Fedorenko, PhD in Economics, Director of Soft-Industry

1. Profile of the study program 'Economics'

	1.1 General information
Full name of a	Chernihiv National University of Technology
higher education	Educational-Scientific Institute of Economics
institution and	Department of Theoretical and Applied Economics
structural unit	
	Level of higher education -3
Higher education	Degree – PhD
degree and title in the	Field of Study – 51 'Social and Behavioral Sciences'
original language	Specialty – 051 'Economics'
	Educational and scientific program 'Economics'
Official title of the	Educational and scientific program 'Economics' for training doctors of
study program	philosophy in the specialty 'Economics'
Type of diploma and	PhD Diploma, individual, 60 ECTS credits
volume of the study	Term of study is 4 academic years
program	
Accreditation	
availability	
Cycle/level	National Qualification Framework – the 9 th level (PhD)
Prerequisites	Master's degree
Language(s) of	Ukrainian, English
teaching	
Duration of the study	
program	
An Internet address	http://www.stu.cn.ua/index.html
for a permanent	
description of the study	
-program	
	1.2 The purpose of the study program
To provide the training f	or scientific and scientific-pedagogical personnel in the sphere of economy
by their acquiring compe	tences sufficient to conduct original scientific research, the results of which
are of scientific novelty	r, theoretical and practical importance, to defense their dissertations and
perform scientific-pedage	ogical activity.
	1.3 Characteristics of the study program
Subject field (field of	The amount of training modules is 75%, of which: general training
study, specialty,	disciplines are 45%, professional training disciplines are 25%, and practical
specialization (if	training is 5%. Optional disciplines are 25%.
available)	
	The object of study is identification and substantiation of the current
	issues of social-economic systems management at macro-, meso-, and
	micro level; development and practical implementation of original
	scientific research, the results of which are of scientific noverty, theoretical and prostical importance, proportion and defense of discontations.
	The objectives include providing the training for scientific and scientific
Description of the	ned agogical personnel in the sphere of economy by their acquiring
Description of the	compationed sufficient to conduct original scientific research the results of
subject neiu	which are of scientific novelty theoretical and practical importance to
	defense their dissertations and perform scientific pedagogical activity
	Theoretical content of the subject field includes terms extension
	naradigms and concepts principles of economic sciences
	Methods and techniques: general scientific methods mathematical and
	statistical methods of economic analysis economic and mathematical
	Methods and techniques: general scientific methods, mathematical and statistical methods of economic analysis, economic and mathematical

	modeling, information and communication technologies of research, and							
	presentations of the results of scientific research.							
	Social-economic and information-technological support of the							
	educational process: stipends dormitories social infrastructure of the							
	university consultations on employment assistance in solving problem							
	situations support for PhD students with special needs academic support							
	which includes consultations on choosing the direction of scientific							
	research optional disciplines and individual consultations							
	Research and annlied Scientific research in generating new knowledge							
	and developing efficient mechanisms of strategic development functioning							
Aspect of the study	and developing efficient incentialisms of strategic development functioning							
program	will be widely applied into practice, as they are based on modern trends of							
	national economy development							
	The program focuses on expanding and deepening theoretical							
	methodological and scientific basis of the development of national sectoral							
The main focus of the	and production social economic systems: mastering the techniques of							
study program and	and production social-economic systems, mastering the techniques of							
specialization	scientific research in the held of economics and concentrating of							
	Libraina business sector, foreign scientists and scholarship activity							
The volume of the	The volume of the study program consists of 60 ECTS credits							
study program	The volume of the study program consists of oo ECTS credits.							
monsured in ECTS								
measureu m EC15								
Eastures of the	The independent work of students is organized with the help of Moodle							
reatures of the	distant learning system							
program.	program: distant learning system.							
	for employment and further education							
	Scientific and teaching activity in the field of economics.							
	Scientific, administrative and managerial activity in educational institutions,							
	establishments of state and territorial-administrative systems and business							
	sector.							
	Positions according to the Classifier of professions of Ukraine:							
	Legislators, senior public officials, administrators, managers. Chief							
	executives of enterprises, institutions and organizations (12):							
	Chief executives of enterprises, institutions and organizations (Director)							
	(1210.1), managers of production units in industry (1222), managers of							
	different major units (Manager) (1229.1), managers of functional units							
	(Manager) (1231), head of research unit (1237), chief specialist of the							
C:4ab:11:4 of	research unit (1237.1), Project and program supervisor (1238), manager of							
Suitability of	other functional units (1239), chief executives of small enterprises (director)							
graduates	(13).							
for employment	Business and management consultant (1475.4).							
	Professionals: teachers of higher educational institutions (2310): Doctoral							
	student, Associate Professor, Professor of the department (2310.1), assistant,							
	lecturer of a higher education institution (2310.2).							
	Other professionals (24): professionals in the field of public service, audit,							
	accounting, labor and employment, marketing, intellectual property and							
	innovative activity (241): professionals in the field of labor and employment,							
	Інші професіоналі (24): Researcher in the field of labor and employment							
	(2412.1), Consultant, specialist in innovative activity,							
	•							
	Specialist in intellectual property, specialist in economic modeling of							
	Specialist in intellectual property, specialist in economic modeling of economic systems, specialist in certification, standardization and quality							

	and innovative activity (2419.1), researcher in the field of economics (2441.1), researcher in the field of project and program management
	(2447.1)
	Places of employment. Positions in departments and laboratories of
	scientific institutions, specialized departments of universities. Relevant jobs
	(research and management) for businesses, institutions and organizations.
	Lifelong learning for development and self-improvement in scientific and
	professional fields, as well as in other related fields of scientific knowledge:
	- training at the 9 th qualification level of the National Qualification
Academic rights of	Framework in Economics (National Qualification Framework –the 9 th level,
graduates	FQEHEA – the 4 th cycle, EQF-LLL the 9 th level); - training at the 8 th level of the National Qualification Framework in the related encoded in the
_	une National Qualification Framework in the related specialities (National Qualification Framework, the 8^{th} level EOEHEA, the 2^{rd} evelope EOE LU
	the 8 th level); educational program research grants and scholarships that
	contain additional scientific and educational components
	1.5 Teaching and assessment
	The main approaches to teaching and learning:
	- lectures, seminars and consultations:
	- an independent work with information sources in the university's library;
	- distant learning and the use of resources from the Internet;
	- cooperation of students of different years of study and with their scientific
	leaders
Toophing and	- individual consultations;
learning and	- involvement of leading specialists in the professional field in advising
learning	graduate students
	- informational support for the participation of graduate students in competitions
	for scholarships and grants;
	- an active work of PhD students in project teams when carrying out topics
	supported by the state, participation in developing reporting materials,
	registration and accounting documents, registration of patents and copyright
	Certificates
	Students knowledge evaluation includes continuous and iniai
	Continuous assessment is carried out in the form of test work during
	practical classes presentations at seminars and conferences preparation of
	scientific reports.
	Final assessment is carried out in the form of oral exam-differentiated
	test. PhD student is allowed to take the final assessment (exam/differentiated
	test) if he/she completed all the types of work provided by the study plan.
Aggagmant	PhD students undergo an annual examination by reporting to the
Assessment	Scientific Council of CNUT about the progress of the study program and the
	individual plan including published scientific articles and presentations at
	conferences
	The final result of studying is the full completion of the study program,
	a sufficient number of scientific works published according to the results of
	research, registered participation in completing registered topics of scientific
	research, a properly compiled dissertation and its presentation at scientific-
	to obtain the scientific degree of Degter of Philosophy
	1.6 The study program competences
	The study program competences
Integral competence	the ability to solve complex problems in the field of professional and/or
(IC)	research and innovative activity that involves a deep reconsideration and
()	generation of a comprehensive knowledge of the economic field

Professional competences (PC) Professional C 5. Teaching skills. The ability to generate new scientific, theoretical and practical ideas, search for own ways to solve a problem. The ability to identify contradictions and unsolved earlier tasks, formulare and test scientific hypotheses. The ability to byhowledge into practice. GC 0: C 7. Creativity. The ability to gyby howledge into practice. GC 3. Communicative skills. The ability to understand foreign professional texts, use foreign language for presenting scientific results in oral or written into own ways to solve a problem. The ability to work use solve a project work. Competence in developing, planning and inplementing research and innovative projects and programs. The ability to work in a scientific and professional team observing ethical rules. The ability to work in a scientific and professional team observing ethical rules. The ability to work in a scientific and professional team observing ethical rules. The ability to work in a scientific and professional team observing ethical rules. The ability to work independently, be critical and self-critical. The ability to search for own ways to solve a problem, to precive critically and analyzes other people's thoughts and ideas, review published works, analyze one's own works. GC 6. Teaching skills. Competence in pedagogical activity concerning teaching, education, development and professional and international levels. PC 1. Research skills in the field of economics. Competence in being familiar with the current state, development new knowledge, obtain scientific research methods using advanced applications, competing and networks, software products to generate new knowledge, obtain scientific research. The ability to ariticize and evaluate. Competence in conducting		GC 1. Research skills. Competence to conduct scientific research at the PhD level make informed decisions solve problems as well as scientific and
Professional competences (PC) In programs of the content of the c		applied tasks. The ability of abstract thinking analysis synthesis. The ability
Get 2. Creativity. The ability to generate new scientific, theoretical and practical ideas, search for own ways to solve a problem. The ability to identify contradictions and unsolved earlier tasks, formulate and test scientific hypotheses. The ability to apply knowledge into practice. Get 3. Communicative skills. The ability to understand foreign professional tests, use foreign language for presenting scientific results in oral or written form, speak the foreign language in an international scientific and professional team observing ethical rules. The ability to work in a scientific and professional team observing ethical rules. The ability to show leadership skills, evaluate and ensure the quality of works performed, initiate and implement projects. Get 6. Teaching skills. Competence in pedagogical activity concerning teaching, education, development and professional training of students. PC 1. Research for own ways to solve a problem, to perceive critically and analyzes other people's thoughts and ideas, review published works, analyze one's own works. Get C. Teaching skills. Competence in pedagogical activity concerning teaching, education, development and professional training of students. PC 1. Research skills in the field of economics. Competence in being familiar with the current state, development trends and a scientific task and profeesional professional professional professional personnics. PC 2. Technological skills. The ability to apply modern modeling and forecasting methods using advanced applications, computer systems an networks, software products to generate new knowledge, obtain scientific task and practical results in the field of economics. PC 2. Technological skills. The ability to apply modern modeling and forecasting method		to use modern information technologies, computer equipment and programs
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Professional competences (PC) Professional competences (PC) </th <th></th> <th>practical ideas search for own ways to solve a problem. The ability to</th>		practical ideas search for own ways to solve a problem. The ability to
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presenting scientific results in oral and written forms, understanding of		ILO 2. Knowledge and understanding of the foreign language, skills in
	V	presenting scientific results in oral and written forms, understanding of
scientific and professional texts, skills to communicate in a foreign scientific	Knowledge and	scientific and professional texts, skills to communicate in a foreign scientific
understanding: and professional environment, be able to work in an international context.	understanding:	II O 3 Knowledge and understanding of the theory and methodology of
systematic analysis application of systematic approach in the study of		systematic analysis application of systematic approach in the study of
economic processes development of social economic systems: the shility to		economic processes development of social economic systems: the shility to
use the methodology of systematic analysis in the field of economics: the		use the methodology of systematic analysis in the field of economics: the

	ability and skills to use the principles of systematic analysis in the
	management of economic systems.
	ILO 4. Knowledge and understanding of modern management theories and
	evolution of specific management functions under the influence of scientific
	and technological progress; objective pattern, goals, social-economic
	conditions of management of modern organizational structures.
	\mathbf{ILO} 5. Knowledge and understanding of methodological bases of
	functioning of the regulation mechanism of national economy methods
	forms and means for implementing the regulation of the national economy:
	forms and means for implementing the regulation of the national economy,
	historial
	$\mathbf{HO} \left(\mathbf{W}_{\text{result}} + $
	ILU 6. Knowledge and understanding of the basic theories of growth and
	development, evolution of scientific knowledge in the field of change
	management; conducting a critical analysis of changes in a business entity;
	the ability to generate, select and justify ways to develop a business entity.
	ILO 7. Knowledge and understanding of models of social-economic
	development, identification of tendencies and key priority areas of economic
	development, formulation of economic policy's direction.
	ILO 8. Knowledge and understanding of general concepts and stages of
	mathematical modeling of social-economic systems and processes; basics of
	optimal (mathematical) programming; essence of methods of mathematical-
	statistical analysis and forecasting of economic dynamics; problem solving
	on the basis of formulated models both by analytical methods and using
	computers; mathematical apparatus for the study of a wide range of typical
	and applied problems of economic analysis and decision-making.
	ILO 9. Knowledge, understanding, abilities and skills in using citation rules
	and references to sources used rules of hibliographic design understanding
	of the content and procedure for calculating basic quantitative scientometric
	indicators of scientific activity efficiency (citation index h-index impact
	factor)
	II O 10 Knowledge and understanding of the structure of higher education
	in Ukraina, specifies of professional and pedagogical activity of the teacher
	at a higher education institution
	at a night education institution.
	ILO II. Skills in using statistical methods of analysis to identify the
	development trends of research objects.
	ILO 12. Skills in following the latest developments in the professional field
	and finding scientific sources relevant to the field of scientific interests of a
	PhD student, working with different sources, searching, processing,
	analyzing and synthesizing the information obtained.
	ILO 13. Skills in working with modern bibliographic and referential data
	bases as well as with databases platforms (Scopus, Web of Science, Web of
	Knowledge, Astrophysics, PubMed, Mathematics, Springer, Agris, GeoRef).
Skills	ILO 14 . Skills in understanding scientific articles in the field of the chosen
DIMIN 5	specialty, analyzing information sources, identifying contradictions and tasks
	(problems) or parts of them that have not been solved previously,
	formulating scientific hypotheses.
	ILO 15 . Skills in organizing creative activities and the process of scientific
	research, using modern technologies of scientific work, evaluating and
	ensuring the quality of work performed.
	ILO 16. Skills in perceiving and analyzing other people's thoughts and ideas
	critically, finding one's own ways to solve problems, analyzing one's own
	materials critically, generating new ideas, making informed decisions.
	ILO 17. Skills in developing and implementing projects and programs of

	 processes and systems, as well as their structure-forming elements in the field of economic sciences. ILO 18. Knowledge and skills in using legislative and regulatory support of higher education, modern means and technologies of organization and implementation of educational process, various aspects of educational work with students, innovative teaching methods. ILO 19. Skills in organizing creative activity, writing articles and reports, performing independent original and publishable research in the field of social and behavioral sciences of economic direction, exploring and comprehending various relationships and interactions thoroughly (technological, organizational, legal, etc.) within economic sciences, conducting research to improve their efficiency, organizing self-examination on the compliance of the dissertation materials with the established requirements. ILO 20. Skills in analyzing specific educational, scientific and professional texts in the field of the chosen specialty, identifying theoretical and practical problems as well as controversial issues in educational, scientifying, setting and solving scientific tasks and problems. ILO 21. Skills in identifying complicated problems in the field of economic science and business practice; applying the acquired theoretical knowledge to solve specific business problems at micro, meso and macro levels; pointing out strategic priorities of the national economic diagnosis of social-economic development of national and regional economic systems; ILO 23. Skills in evaluating resistance level of social-economic systems to external and internal threats; choosing appropriate methods for monitoring the development of social-economic systems of different levels. ILO 24. Skills in communicating with a wide scientific community and public in the field of scientific and/or professional activity with the purpose of (1) discussing controversial issues, research results and coordinating actions at onion work
Communication	of (1) discussing controversial issues, research results and coordinating actions and joint work at conferences, scientific seminars; (2) bringing research results and innovations to colleagues; (3) presenting, defending the research results, discussing them with the scientific and professional community; (4) using modern means of visual presentation of research results. ILO 25. To be a part of public society, scientific community, to accept the rule of law especially in the professional activity, to understand and be able to exercise one's own rights and freedoms, show respect to rights and freedoms of other people ILO 26. Skills in arranging and conducting conferences, round-table discussions, and seminars using the native or foreign languages ILO 27. To be able to use communication technologies to maintain harmonious business and personal contacts as a prerequisite for business success.
	1.8 Resources for the program implementation
Human resources	Doctors of Sciences and PhD
Material and technical resources	Sixteen educational buildings, the cultural and educational center 'Peremoha', workshops, dormitories, garages and canteens. The total area of all buildings is $83156,6 \text{ m}^2$, the area of educational rooms is $45975,1 \text{ m}^2$. The average area per a student is 16 m^2 . The area of sports facilities is $14256,4$

	m^2 , the sports and recreational facility seats 135 people, is equipped with a								
	sports hall, swimming pool (360 m ²), and two saunas. All premises and								
	buildings are in a good sanitary condition. There are also modern computer								
	technologies with access to the Internet (including Wi-Fi).								
	The educational process is fully provided with information sources. The								
	University has its own library network, which provides students with								
Information and	sufficient amount of educational and methodical literature. In addition, all								
academic resources	educational buildings and student dormitories are connected to the Internet,								
	which students can access through computers from study rooms and libraries,								
	and from their own electronic devices via Wi-Fi.								

2. List of Components of Educational and Professional Program and Their Logical Sequence

	List of components							
No.	The study program components (academic disciplines,	ECTS-	Form of					
1	2	3						
L 2 5								
	Computer y Components (CC)							
	General training cycle	1	1					
CC 1.	Philosophy	6	pass-fail test exam					
CC 2.	English for Scientific Communication	12	pass-fail test exam					
CC 3.	Methodology, Organization and Technology of Scientific Research	9	pass-fail test exam					
	Professional training cycle	-						
CC 4.	Current Problems of Economic Theory	3	pass-fail test					
CC 5.	Modern Problems of Development of Ukrainian Economy	3	pass-fail test					
CC 6.	Modelling and Forecasting of Social-Economic Systems Development	3	pass-fail test					
CC 7.	Economic Diagnostics	3	pass-fail test					
CC 8.	Problems of Economy and Management of Modern Organizational Structures	3	pass-fail test					
Total of	compulsory components:	42						
	Optional Components (OC)							
	Professional training cycle							
OC 1.1.	Methods and Models of Regulation of National Economy Development	5	page fail test					
OC 1.2.	Modern Models of State Regulation of Social- Economic Systems	5	pass-rail test					
OC 1.3.	Changes and Development Management of Business Entities	5	pass fail test					
OC 1.4.	Functioning of Economic Systems at the Micro Level	5	pass-rail test					
OC 1.5.	Economic Security of the National Economy							
OC 1.6.	Monitoring of social-Economic Development of the State	5	pass-fail test					
Total of	optional components:	15						
CC 9. Pi	ractical training	3						
OVERA	LL TOTAL	60						

2.2 Structural and Logical Scheme

Semester	Type of educational activity
1 12	Compulsory disciplines (general training cycle) Compulsory component
1 - 12	(herein after – CC) 1 (3 credits), CC2 (3 credits), CC3 (3 credits)
cieuits	Compulsory disciplines (professional training cycle) CC4 (3 credits)
2 12	Compulsory disciplines (general training cycle) CC1 (3 credits), CC2 (3
2 - 12	credits), CC3 (3 credits)
creatts	Compulsory disciplines (professional training cycle) CC5 (3 credits)
	Compulsory disciplines (general training cycle) CC2 (3 credits), CC3 (3
2 14	credits)
5-14	Compulsory disciplines (professional training cycle) CC7 (3 credits)
creatts	Optional disciplines Optional component (herein after $-$ OC) 1.1/1.2 (5
	credits)
	Compulsory disciplines (general training cycle) CC2 (3 credits)
4-9 credits	Compulsory disciplines (professional training cycle) CC6 (3 credits),
	CC8 (3 credits)
5-5 credits	Optional disciplines OC1.3/1.4 (5 credits)
6-5 credits	Optional disciplines OC1.5/1.6 (5 credits)
7-3 credits	Educational-pedagogical practice (CC9) (3 credits)

4. Consistency Matrix of Program Competences with Compulsory Components of the Study Program

		Competences							
	CC-1	CC-2	CC-3	CC-4	CC-5	CC-6	CC-7	CC-8	CC-9
GC-1	+		+			+	+		+
GC-2			+	+	+	+	+	+	+
GC-3		+	+						+
GC-4			+	+	+	+	+	+	
GC-5			+				+		
GC-6			+						+
PC-1				+	+				
PC-2				+	+	+	+		
PC-3	+		+	+	+	+	+	+	
PC-4			+						

4.1 Consistency Matrix of Program Competences with Optional Components of the Study Program

		Competences									
	OC 1.1	OC 1.2	OC 1.3	OC 1.4	OC 1.5	OC 1.6					
GC-1											
GC-2											
GC-3											
GC-4	+	+	+	+	+	+					
GC-5	+	+	+	+	+	+					
GC-6											
PC-1	+		+								
PC-2	+	+	+	+	+	+					
PC-3	+	+	+	+	+	+					
PC-4			+	+	+	+					

5. Matrix of Providing Intended Learning Outcomes (ILO) with Compulsory Components of the Study Program

		Intended learning outcomes							
	CC-1	CC-2	CC-3	CC-4	CC-5	CC-6	CC-7	CC-8	CC-9
ILO1			+	+	+	+	+	+	
ILO2		+							
ILO3				+	+	+	+	+	
ILO4								+	
ILO5						+			
ILO6							+	+	
ILO7						+			
ILO8						+	+		
ILO9			+						+
ILO10			+						+
ILO11						+	+		
ILO12			+						+
ILO13			+						+
ILO14			+						+
ILO15			+	+	+	+	+	+	+
ILO16	+		+						+
ILO17			+			+		+	
ILO18									+
ILO19			+	+					
ILO20									+
ILO21				+	+			+	
ILO22						+	+		
ILO23					+	+			
ILO24		+	+						+

ILO25		+			+
ILO26	+	+			+
ILO27		+			+

5.1 Matrix of Providing Intended Learning Outcomes (ILO) with Optional Components of the Study Program

	Intended learning outcomes										
	OC 1.1	OC 1.2	OC 1.3	OC 1.4	OC 1.5	OC 1.6					
ILO1	+	+	+	+	+	+					
ILO2											
ILO3	+	+	+	+	+	+					
ILO4			+		+	+					
ILO5	+	+			+	+					
ILO6	+		+	+		+					
ILO7	+	+									
ILO8	+					+					
ILO9		+	+	+		+					
ILO10											
ILO11											
ILO12											
ILO13											
ILO14											
ILO15	+	+	+	+	+	+					
ILO16											
ILO17			+			+					
ILO18											
ILO19											
ILO20	+	+	+	+	+	+					
ILO21		+		+	+						
ILO22	+				+						
ILO23					+	+					
ILO24											
ILO25											
ILO26											
ILO27											