

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

SUMY NATIONAL AGRARIAN UNIVERSITY

Department of Management

«CONFIRMED»

Acting Head of Management Department

_____ **(L.I. Mykhailova)**

«__»_____ 2020

CURRICULUM

Methodology of conducting scientific researches

Degree: Doctor of Philosophy

Specialty: 073 – «Management»;

091 – «Biology»;

133 – «Industry engineering»;

181 – «Food technology»;

201 – «Agronomy»;

202 – «Protection and quarantine of plants»;

204 – «Technology of production and processing of livestock products»;

211 – «Veterinary medicine»

Faculty: department of postgraduate and doctoral studies

2020 – 2021 academic year

Curriculum of the discipline «**Methodology of conducting scientific researches**» was worked out for the first-year students ED «**Doctor of Philosophy**», specialty 073 – management; 091 – biology; 133 – industry engineering; 181 – food technology; 201 – agronomy; 202 - plant protection and quarantine; 204 – technology of production and processing of livestock products; 211 – veterinary medicine

Elaborated by: Mykhailov A.M., Assoc. Prof., Dr.S. (econ), Professor of department of Management.

Curriculum is reviewed during the meeting of the department of Management. Protocol № __ dated from __ _____ 2020.

Acting Head of Department of Management _____ L.I. Mykhailova

Agreed:

Head of of the Department of Postgraduate and Doctoral Studies _____ I.V. Lozynska

Methodist of department _____ H.O. Baboshina

Registered in the electronic data base. Date: _____ 2020 year

1. Description of the Course

Indicators	Branch of knowledge, training direction, qualification level	Characteristics of course	
		Full-time Studying	Part-time Studying
Number of credits - 3	Branch of knowledge: Management and Administration, Biology, Mechanical Engineering, Manufacturing & Technology, Agrarian Sciences & Food, Veterinary Medicine	<i>According to the curriculum</i>	
Number of modules: 2	Specialty: 073 – management; 091 – biology; 133 – industry engineering; 181 – food technology; 201 – agronomy; 202 - plant protection and quarantine; 204 – technology of production and processing of livestock products; 211 – veterinary medicine	Academic year	
		2020-2021	
		Year of studying	
		1	
		Semester	
		2	
Hours: Total - 90		Lectures	
Hours per week: Classroom activities hours – 3 Individual work - 3	Educational degree: <i>Doctor of Philosophy</i>	12 hrs	
		Practical, seminars	
		12 hrs.	
		Laboratory work	
		-	-
		Individual work	
		66 hrs.	
	Final control form: credit		

2. Aim and Tasks

The purpose of discipline - is a preparing and attracting students to carry out research activities, familiarizing them with the strategy and tactics of conducting research, giving them certain knowledge about the methodology, methodology and tools of research and preparation of their publications, qualification papers; teaching students to apply in research methods for analyzing information sources and organization of scientific work.

The main tasks of the discipline - to form the system and expand the range of knowledge in the research methodology to students, provide them with the necessary knowledge and practical skills in economic, social and legal research, promote creative understanding of the need to develop and solve problems, apply research methods that will promote the development of professional skills in relation to formulation and presentation of the results of the research conducted..

As a result of academic discipline's study of a student should:

know: concept of science and scientific activity; organization of scientific activity in Ukraine; principles of organization of research work in higher educational institutions; methodological and methodical principles of scientific research; concept and procedure for conducting scientific research; the order of choice, the formulation of the problem and the topic of scientific research; program of sociological research; sources of information search and material selection; stages of the scientific research plan formulation; the basic approaches of application of computer technologies in scientific researches; the procedure for designing and implementing the results of scientific research in practice.

be able: to own methods and techniques of scientific research; to have the forms and principles of organization of research work; organize the work of the research team; to analyze the actual problems of the development of economic science and criteria for selecting the direction of scientific research; search and study scientific literature; formulate the object and subject of scientific research; carry out own sociological research; generalize the results of the conducted researches; write essays, scientific articles, abstracts, reports, present the results of their own research; review research by various scholars; apply the acquired knowledge for further scientific activity, as well as in the study of other disciplines.

3. Program of Discipline

(is on testing)

Module 1. Specificity and organization of scientific research work

Topic 1. The role and tasks of science in the modern world

The concept of science; Functions of science; Value and importance of science; Subjects of research and activities in the institution of higher education; Organization of science in the institution of higher education; Organization of the research group; The role and tasks of science in the modern world.

Topic 2. Basics of scientific research and its application.

The concept of research; Objectives of research; Motivation in research; Types of research; Research approaches; Information support research.

Topic 3. The research process and its Information support

The concept of the research process; Forming the main stages of the research process; Formulating the research problem; Formulating the research problem; Extensive literature survey; Development of working hypotheses; Preparing the research design and determining sample design; Collecting the data and execution of the project; Analysis of data and hypothesis testing; Generalizations, interpretation and preparation of the report or presentation of the results; The process of gathering information and data for scientific research. Organization and conduction of the sociological research.

**Module 2. Methodical and methodological principles of scientific research,
designing of scientific research results**

Topic 4. Methodological bases of research topics' and research problems' sources.

The concept of primary sources; The methodological bases of using the secondary sources; Tertiary sources; Characteristics of a good project (research) topic; Organization of students' scientific research work.

Topic 5. Hypothesis in research.

Definition of the hypothesis; Sources of hypothesis; Characteristics of a workable or usable hypothesis; Types of hypothesis; Role of hypothesis; Designing of scientific research results.

Topic 6. The process of gathering information and data for scientific research. Organization and conduction of the sociological research

The ways of gathering information and data; Interviews, their types and factors that might affect the outcome of any particular interview; The concept of focus groups and the approach of their usage on practice; Participant observation; Questionnaires; Key points of questionnaires; Advantages and disadvantages of open and closed questions; Rules for designing questionnaires; Size and sampling of questionnaires; Response rates of questionnaires; Peer reviewing of scientific papers; Organization of scientific activity in different countries.

4. Structure of the Course

Name of content modules and topics	Number of hours					
	full-time education					
	Total	including				
L		P	Lab	Ind	I.W.	
1	2	3	4	5	6	7
Module 1. Specificity and organization of scientific research work						
Topic 1. The role and tasks of science in the modern world.	37	2	2		33	
Topic 2. Basics of scientific research and its application.	4	2	2			
Topic 3. The research process and its Information support	4	2	2			
Total for module 1	45	6	6		33	
Module 2. Methodical and methodological principles of scientific research, designing of scientific research results						
Topic 4. Methodological bases of research topics' and research problems' sources	4	2	2			
Topic 5. Hypothesis in research.	4	2	2			
Topic 6. The process of gathering information and data for scientific research. Organization and conduction of the sociological research	37	2	2		33	
Total for module 2	45	6	6		33	
Individual task						
Total hours for the course	90	12	12	-	66	

5. Topics and plans of lectures

#	Name of topics	Quantity of hours
1.	Topic 1. The role and tasks of science in the modern world Plan 1. The concept of science. 2. Functions of science. 3. Value and importance of science. 4. Subjects of research and activities in the institution of higher education. 5. Organization of science in the institution of higher education	2
2.	Topic 2. Basics of scientific research and its application Plan 1. The concept of research. 2. Objectives of research. 3. Motivation in research. 4. Types of research. 5. Research approaches.	2
3	Topic 3. The research process Plan 1. The concept of the research process.	2

	<p>2. Forming the main stages of the research process.</p> <p>2.1. Formulating the research problem.</p> <p>3. Formulating the research problem</p> <p>3.1. Extensive literature survey.</p> <p>3.2. Development of working hypotheses.</p> <p>3.3. Preparing the research design and determining sample design.</p> <p>3.4. Collecting the data and execution of the project.</p> <p>3.5. Analysis of data and hypothesis testing.</p> <p>3.6. Generalizations, interpretation and preparation of the report or presentation of the results.</p>	
4	<p>Topic 4. Methodological bases of research topics' and research problems' sources</p> <p>Plan</p> <p>1. The concept of primary sources.</p> <p>2. The methodological bases of using the secondary sources.</p> <p>3. Tertiary sources.</p> <p>4. Characteristics of a good project (research) topic.</p>	2
5	<p>Topic 5. Hypothesis in research</p> <p>Plan</p> <p>1. Definition of the hypothesis.</p> <p>2. Sources of hypothesis</p> <p>3. Characteristics of a workable or usable hypothesis.</p> <p>4. Types of hypothesis.</p> <p>5. Role of hypothesis.</p>	2
6	<p>Topic 6. The process of gathering information and data for scientific research. Organization and conduction of the sociological research</p> <p>Plan</p> <p>1. The ways of gathering information and data.</p> <p>2. Interviews, their types and factors that might affect the outcome of any particular interview.</p> <p>3. The concept of focus groups and the approach of their usage on practice.</p> <p>4. Participant observation.</p> <p>5. Questionnaires.</p> <p>5.1. Key points of questionnaires.</p> <p>5.2. Advantages and disadvantages of open and closed questions.</p> <p>5.3. Rules for designing questionnaires.</p> <p>5.4. Size and sampling of questionnaires.</p> <p>5.5. Response rates of questionnaires.</p>	2
Total:		12

6. Topics of practical classes

#	Name of topics	Quantity of hours
1	Topic 1. Organization of the research group.	2
2	Topic 2. Information support research	2
3	Topic 3. The process of gathering information and data for scientific research. Organization and conduction of the sociological research.	2
4	Topic 4. Organization of students' scientific research work.	2
5	Topic 5. Designing of scientific research results.	2
6	Topic 6. Peer reviewing of scientific papers.	2
Total		12

7. Independent work

#	Name of topics	Quantity of hours
1	Topic 1. The role and tasks of science in the modern world.	33
2	Topic 2. Organization of scientific activity in different countries.	33
	Total	66

8. Individual tasks

1. To write the abstracts of a scientific presentation on the topic of research and to take part in the conference.
2. Make a plan of a scientific article based on the results of their own research.
3. To write the abstract on the topic of dissertation work.
4. To substantiate methods of scientific researches for fulfillment of separate tasks.
5. To develop the detailed plan of the dissertation research.
6. Prepare a scientific article for publication in a professional edition (in a magazine indexed by Scopus or Web of Science) based on the results of studying methodological approaches to studying the chosen problem.

9. Methods of Training

1. Training Methods for Knowledge:

- 1.1. *Verbal:* narrative, explanation, discussion (heuristic and reproductive), lecture, instruct, work with the book (read, transfer, discharge, scheduling, reviewing, summarizing, making tables, charts, reference compendia etc.).
- 1.2. *Visual:* demonstration, illustration.
- 1.3. *Practical:* practical work, exercise, production practices.

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

- 2.1. *Analytical*
- 2.2. *Synthesis*
- 2.3. *Inductive method*
- 2.4. *Deductive method*

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

- 3.1. *Problem (problem-information)*
- 3.2. *Partly-search (heuristic)*
- 3.3. *Exploratory*
- 3.4. *Reproductive*
- 3.5. *Explanatory demonstration*

4. Active learning methods – use of technical training, brainstorming, debates, roundtables, business and role-playing games, training, use of problem situations, self-knowledge, the use of educational tests and controlling the use of basic lectures.

5. Interactive learning technology – the use of multimedia technology.

10. Methods of control

1. Rating control of a 100-point scale assessment ECTS.
2. An intermediate control during the semester (interim certification).
3. Criteria assess of the current work of students:
 - the level of knowledge demonstrated in practical classes;
 - active in the discussion of issues brought to the class;
 - quick control during classes;

- self-study topics in general or specific issues;
 - perform analytical calculation tasks;
 - writing essays;
 - test results;
 - writing assignments during the tests;
 - production situations, cases and more.
4. Direct consideration in the final assessment of student performance of certain individual tasks:
- educational and practical study of the presentation of results and more.

11. Points for the Total Score a Student Gets

Current testing and Independent work				Accreditation tests	TOTAL
Module 1	Module 2	Personal tasks	Total for modules and personal tasks		
T1-3	T4-6	15	85 (70+15)	15	100
35	35				

Evaluation Criteria and ECTS

NATIONAL MARK	ECTS	DEFINITION OF ECTS	POINTS
excellent	A	<p>90-100 points ("excellent") - (with ECTS - A - almost without errors - 95 - 100 points; allowed a small number of errors - 86 - 94 points):</p> <ul style="list-style-type: none"> - 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 PSI required. - 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, 	90 - 100

		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 behaviour in different situations and so on.	
good	B	<p>above average with a few errors:</p> <ul style="list-style-type: none"> - 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 PSI required. - 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. 	82 – 89
	C	generally work is not very good, with a number of errors	75 – 81
sufficient	D	<p>not bad, but a lot of mistakes</p> <ul style="list-style-type: none"> - 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 PSI is not required. - 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. 	69 – 74
	E	Enough - performance meets the minimum criteria	60 – 68
insufficient	FX	35 - 59 points ("poor") - (with ECTS-FX - need to work before you get a positive evaluation).	35 – 59
	F	1 - 34 points ("poor") - (with ECTS - F - thorough and elaborate).	1 - 34

12. Suggested Reading

Normative legal acts

1. Constitution of Ukraine, 28.06.1996, № 254к/96–BP [Electronic resource]. (in Ukrainian) – Mode of access: <http://zakon0.rada.gov.ua/laws/show/254%D0%BA/96-%D0%B2%D1%80>.
2. On Copyright and Related Rights [Electronic resource]: Law of Ukraine "On Copyright and Related Rights" dated 23.12.1993, No. 3792-XII // Information from the Verkhovna Rada of Ukraine. - 1994. - No. 13. - P. 64 with amendments and additions. (in Ukrainian) - Mode of access: <http://zakon4.rada.gov.ua/laws/show/3792-12>.
3. About higher education [Electronic resource]: Law of Ukraine "On Higher Education" of 01.07.2014 № 1556-VII // Bulletin of the Verkhovna Rada of Ukraine. - 2014 - No. 37-38. - S. 2004 with changes and additions. (in Ukrainian) - Mode of access: <http://zakon4.rada.gov.ua/laws/show/1556-18>.
4. On Approval of the Regulations on the Training of Scientific-Pedagogical and Scientific Personnel [Electronic Resource]: Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Regulation on the Training of Scientific-Pedagogical and Scientific Personnel" dated 01.03.1999, No. 309. (in Ukrainian) - Mode of access: <http://zakon4.rada.gov.ua/laws/show/309-99-%D0%BF>.
5. On Approval of the Order of Awarding Degrees and Assigning a Scientific Title to a Senior Researcher [Electronic Resource]: Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Order of Awarding Academic Degrees and Assigning the Academic Rank of a Senior Researcher" dated July 24, 2013, No. 567. (in Ukrainian) - Mode of access: <http://zakon4.rada.gov.ua/laws/show/567-2013-%D0%BF>.

Basic

1. Bozema B. Research Collaboration and Team Science. A state-of-the-Art Review and Agenda. Springer briefs in entrepreneurship and innovation [Electronic resource] / Barry Bozema, Craig Boardman. – Ohio: Columbus, 2014. – 59 p. – The mode of access: <https://books.google.com.ua/books?id=31clBAAAQBAJ&pg=PA27&dq=science+research+for+managers+2014&hl=ru&sa=X&ved=0CCoQ6AEwAmoVChMIsar8l7DaxgIVCyDbCh1aKAKR#v=onepage&q=science%20research%20for%20managers%202014&f=false>.
2. Bright Wilson E. An Introduction to Scientific Research / Edgar Bright Wilson. – New York, Dover Publications Inc, 2011. – 383 p.
3. Bryman A. Barriers to Integrating Quantitative and Qualitative Research [Electronic resource] / Alan Bryman // Journal of Mixed Methods Research. – Vol. 1. – #1, January, 2010. – P. 8–22. – The mode of access: <http://mmr.sagepub.com/content/1/1/8.short?rss=1&ssource=mfc>.
4. Collis J. Business Research: A Practical Guide for Undergraduate and Postgraduate Students / Jill Collis, Roger Hussey. – 4th edition, December 27, 2013. – 443 p.
5. Dawson C. Practical Research Methods / Dawson Catherine. –New Delhi: UBS Publishers'Distributors, 2012. – 315 p.
6. Denscombe M. The good research guide: for small scale social research projects / Martyn Denscombe. – Maidenhead: McGraw-Hill, Open University Press, 5th edition, 2014. – 310 p.
7. Durojaye Oyedolapo B. Peace Research Methods / Durojaye Oyedolapo B. – National Open University of Nigeria, 2012. – 244 p.
8. Johnson C. Management Project Guidelines / Johnson C. – Bradford: University of Bradford, School of Management, 2014. – 72 p.
10. Klietsova N. V. Prediction of possible changes in investment of the agricultural sector of Sumy region / N. V. Klietsova // collective monograph: Current issues of modern economy / Part 2. – Uman, 2011. – P. 163–167. (in Ukrainian)

11. Kothari C. R. Research Methodology – Methods and Techniques / Kothari C. R. – New Delhi: Wiley Eastern Limited, 2011. – 112 p.
12. Kumar R. Research Methodology – A Step-by-Step Guide for Beginners / Kumar Ranjit. – 2nd.ed., Singapore: Pearson Education, 2015. – 246 p.
13. Kunova V. Current Issues of Science and Research in the Global World [Electronic resource] / Vlasta Kunova, Martin Dolinsky. – London: Taylor and Frances Group, Uk; CRC Press: Balkema, 2015. – 369 p. – The mode of access: <https://books.google.com.ua/books?id=SA7NBQAAQBAJ&pg=PR9&dq=science+and+research+2014&hl=ru&sa=X&ved=0CBwQ6AEwAGoVChMI6erOoabaxgIVYXdyCh3UBQC9#v=onepage&q=science%20and%20research%202014&f=false>.
14. Mykhailov A.M. Using economic and mathematical methods in economic research. Information management at the level of local self-government. Science national team for ed. Kristina Kzhizhanovskaya. Poland Warsaw: Publishing House. 2010. p. 67-78
15. Mykhailov A.M. Methodological approaches and a system of indicators for determining the investment climate in the agrarian sector of the economy. *Economy of agroindustrial complex*. 2016. No. 12. p. 76-83 (in Ukrainian)
16. Mykhailova L.I., Mykhailov A.M. Methodological principles of the study of world and regional markets for agricultural products and foodstuffs. Problems of foreign economic relations development and attraction of foreign investments: regional aspect // Collected authors. - Collection of scientific works. Donetsk: Donetsk National University (Open Journal Systems) 2013. T.1. 410 s. P.235-237. (in Ukrainian)
17. Mykhailov A., Kharchenko T. Economic-mathematical modeling of investment-active development of the agrarian sector of Ukraine's regions in the context of attraction of foreign investments // Modelling of the mechanisms to restore the national economy: Collective monograph / [Edited by: O.Vlasiuk, O. Ilyash, M. Osinska, W. Olszewski, S.Hrynkevych]. – Vol. 3. Bydgoszcz, Poland: University of Economy in Bydgoszcz, Publishing House, 2017. 315p. P.123-144
18. Mykhailov A.M. Investment resources of the agrarian sector of Ukraine's economy: scientific fundamentals, state, prospects: monograph. Sumy: FOP Litovchenko E. B., 2017. 300 p. (in Ukrainian)
19. Premysl J. Characteristics of Science and Scientific Activities: Considerations about What Is and What Is Not Scientific / Janicek Premysl, Bursa Jiri // Journal of Mechanics Engineering and Automation. – #2, 2012. – P. 573–583.
20. Rahman M. S. An empirical study on revealing the factors influencing online shopping intention among Malaysian consumers' [Electronic resource] / Muhammad Sabbir Rahman // Journal of Human and Social Science Research. – Vol. 1. – #1, 2013. – P. 9–18. – The mode of access: <https://books.google.com.ua/books?id=mpg3AwAAQBAJ&printsec=frontcover&dq=science+and+research+2014&hl=ru&sa=X&ved=0CFQQ6AEwB2oVChMI6erOoabaxgIVYXdyCh3UBQC9#v=onepage&q=science%20and%20research%202014&f=false>.
21. Research Methodology: An introduction [Electronic resource]. – The mode of access: <http://www.google.com.ua/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CBwQFjAAahUKEwigj4n0ouTGAhVBkhQKHWI5AHY&url=http%3A%2F%2Fwww.newagepublishers.com%2Fsamplechapter%2F000896.pdf&ei=ug-qVaDKKcGkUuLygLAH&usg=AFQjCNHFzviHJbRIwmgqPDQbdadgtX7yKA&bvm=bv.98197061,d.bGg>.
22. Richards P. How to Write a Short Report [Electronic resource] / Patti Richards, 2016. – The mode of access: http://www.ehow.com/how_5093184_write-short-report.html.
23. Scotland analysis: Science and Research [Electronic resource] / HM Government. – London: TSO, 2013. – 72 p. – The mode of access: <https://books.google.com.ua/books?id=8uC2ByPz484C&pg=PA26&dq=science+and+research+2014&hl=ru&sa=X&ved=0CCoQ6AEwAmoVChMI6erOoabaxgIVYXdyCh3UBQC9#v=onepage&q=science%20and%20research%202014&f=false>.

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25. Tashakkori A. Common “Core” Characteristics of Mixed Methods Research: A Review of Critical Issues and Call for Greater Convergence [Electronic resource] / Charles Teddlie, Abbas Tashakkori // American Behavioral Scientist. – Vol. 56. – #6, 2012. – P. 774–788. – The mode of access: <http://abs.sagepub.com/content/56/6/774.abstract>.

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27. Vibhute K. Legal Research Methods: Teaching Material [Electronic resource] / Khushal Vibhute, Filipos Aynalem, 2015. – 252 p. – The mode of access: [file:///C:/Users/A4F7~1/AppData/Local/Temp/Rar\\$DIa0.463/legal-research-methods.pdf](file:///C:/Users/A4F7~1/AppData/Local/Temp/Rar$DIa0.463/legal-research-methods.pdf).

28. Warkentin M. Trends and research in the decision sciences. Best papers from the 2014 Annual Conference [Electronic resource] / Merrill Warkentin. – New Jersey: Decision Science Institute, 2015. – 348 p. – The mode of access: <https://books.google.com.ua/books?id=aGnwBQAAQBAJ&printsec=frontcover&dq=science+and+research+2014&hl=ru&sa=X&ved=0CEIQ6AEwBWoVChMI6erOoabaxgIVYXdyCh3UBQC9#v=onepage&q=science%20and%20research%202014&f=false>.

Additional

1. About Higher Education (Law In Ukrainian) / Про вищу освіту [Електронний ресурс]: Закон України “Про вищу освіту” від 01.07.2014 р. № 1556-VII // Відомості Верховної Ради України. – 2014. – № 37-38. – С. 2004 зі змінами і доповненнями. – Режим доступу: <http://zakon4.rada.gov.ua/laws/show/1556-18>.

2. Capel H. The history of science and the history of the scientific disciplines. Goals and branching of a research program in the history of geography [Electronic resource] / Horacio Capel, 2015. – The mode of access: <http://www.ub.edu/geocrit/geo84.htm>.

3. How to cite a book in a bibliography using MLA [Electronic resource]. – The mode of access: <http://www.bibme.org/citation-guide/mla/book>.

4. How to cite References [Electronic resource] / The university of Nottingham. – The mode of access: <https://www.google.com.ua/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0ahUKEwjpOOjrjKAhVDz3IKHZpgB18QFggjMAE&url=https%3A%2F%2Fwww.nottingham.ac.uk%2Fis%2Fdocuments%2Fabout%2Finductionguides%2Freferences.pdf&usg=AFQjCNFOvladMH7mPeqf4Bej-anwm8Lddw&bvm=bv.112064104,d.bGQ&cad=rja>.

5. How to write a term paper [Electronic resource]. – The mode of access: <http://www.wikihow.com/Write-a-Term-Paper>.

6. Luglio F. Research management in Higher Education Institutions: a process management experience in Italian Universities [Electronic resource] / Fabrizio Luglio, Nicola Bertazzoni // Research Management in Higher Institutions, 2015. – The mode of access: http://www.eurocris.org/Uploads/Web%20pages/cris2010_papers/Papers/cris2010_Luglio.pdf.

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14. Informational resources

1. База Даних SCOPUS [Електронний ресурс]. – Режим доступу: <http://www.scopus.com>.

2. Веб-сайт “Академічна книгарня@онлайн” [Електронний ресурс]. – Режим доступу: <http://www.akbooks.com.ua/>.

3. Веб-сайт Бібліотеки Конгресу США [Електронний ресурс]. – Режим доступу: <http://www.loc.gov/>

4. Веб-сайт Британської бібліотеки (The British Library) [Електронний ресурс]. – Режим доступу: www.bl.uk/.

5. Веб-сайт Державної наукової установи “Книжкової палати України імені Івана Федорова” (Київ) [Електронний ресурс]. – Режим доступу: <http://www.ukrbook.net/>.

6. Веб-сайт Національної бібліотеки Франції (Bibliothèque Nationale de France (BNF)) [Електронний ресурс]. – Режим доступу: www.bnf.fr/.

7. Веб-сайт Національної парламентської бібліотеки України (Київ) [Електронний ресурс]. – Режим доступу: <http://www.nplu.org/>.

8. Вища атестаційна комісія України [Електронний ресурс]. – Режим доступу: <http://vak.org.ua/>.

9. Законодавча база Верховної Ради України [Електронний ресурс]. – Режим доступу: <http://zakon4.rada.gov.ua/laws>.

10. Інформаційно-довідковий портал “Library.ru” [Електронний ресурс]. – Режим доступу: <http://book.uraic.ru/ssylki/biblioteki>.

11. Колекція посилань на кращі електронні бібліотеки [Електронний ресурс]. – Режим доступу: <http://lyapota.boom.ru/lib.htm>.

12. Міністерство освіти і науки України [Електронний ресурс]. – Режим доступу: <http://mon.gov.ua/>.

13. Науково-практичний журнал “Наука та інновації” [Електронний ресурс]. – Режим доступу: <http://scinn.nas.gov.ua/>.

14. Національна бібліотека України імені В.І. Вернадського [Електронний ресурс]. – Режим доступу: <http://www.nbu.gov.ua/>.

15. Освітній портал [Електронний ресурс]. – Режим доступу: <http://www.osvita.org.ua/>.

16. Пошукова система GOOGLE АКАДЕМІЯ [Електронний ресурс]. – Режим доступу: <http://www.scholar.google.com.ua/>.

17. Проект “Відкритий світ інформаційних технологій” [Електронний ресурс]. – Режим доступу: <http://www.idea-ukraine.org/>.

18. Система дистанційного навчання “MOODLE” СНАУ [Електронний ресурс]. – Режим доступу: <http://cdn.sau.sumy.ua/cdn/>.

19. Український лінгвістичний портал “Словники України” [Електронний ресурс]. – Режим доступу: <http://lcorp.ulif.org.ua/dictua/>.