

Ministry of Education and Science of Ukraine
Sumy National Agrarian University
Faculty of Economics and Management
Department of Management

MODULE Syllabus

EC 9. Organization of preparation of scientific publications and thesis writing

status - compulsory


Implemented in the “Ecology” Academic Program

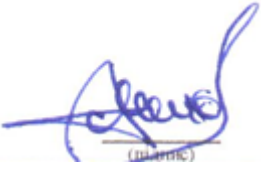
Area of specialization 101 “Ecology”

Qualification: Doctor of Philosophy

at the third (educational and scientific) level of higher education

Sumy - 2021

Author:		Dashutina L.O, Ph.D., Associate Professor of Management Department
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Module syllabus viewed and agreed at the Management Department meeting	Minutes № 14 dated 22.06.2021.	
	Head of the Department	 (signature) _____ Mikhailov A.M. (surname, initials)

Approved by:

Guarantor of the Academic program



I. M. Kovalenko

Dean of the Faculty

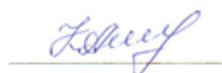


I. M. Kovalenko

Syllabus review (attached) is provided by :



V. G. Skliar



G.O. Klymenko

Syllabus review data:

Academic year in which changes are made	The Academic program attachment number with changes description	Changes considered and approved		
		Minutes No and date of the department meeting	Head of Department	Guarantor of the academic program

MODULE OVERVIEW

1.	Title	Organization of preparation of scientific publications and thesis writing		
2.	Faculty/department	Faculty of Economics and Management / Department of Management		
3.	Status	<u>Compulsory</u>		
4.	Program / Speciality	Educational and scientific program "Ecology" in Speciality 101 "Ecology"		
5.	Module can be suggested for (to be filled in optional types)			
6.	Level of NQF	Level 8		
7.	Semester and duration of study	Full time 2nd semester, 9 weeks		
8.	Number of ECTS credits	3		
9.	Total workload and time allotment	Directed study		Self-directed study
		Lectures	Practical classes/seminars	Labs
		Full time 18	Full time 18	Full time - Full time 54
10.	Language of instruction	Ukrainian, English		
11.	Module leader contact information	Dashutina Liudmyla Olexandrivna, Ph. D, Associate Professor of Management Department Consultations - every Tuesday at 12.15, room 303 e		
11.1	Contact Information	ldashutina81@gmail.com		
12.	Module description	The discipline "Organization of preparation of scientific publications and thesis writing" is aimed at forming the necessary knowledge in order to develop systematic ideas, theoretical knowledge and practical skills that would allow to use skills adequately and effectively in scientific publications in the context of the topics of the theses in Speciality 101 Ecology. As a result of mastering the disciplines, PhD applicants must be able to analyze the scientific literature, highlight research results in relevant reports, articles, theses, including creative thinking, navigate freely in the information space, be able to analyze and predict developments, master independently worldview paradigms in ecology, environmental protection and sustainable use of nature. Also, graduate students will be ready for independent implementation of the theses.		
13.	Module aim	Obtaining basic knowledge of methodology, methods and organization of scientific activity to ensure professional training as scientists; as well as the formation of competencies in conducting independent qualified and completely original research, making informed decisions on the selection of appropriate research tools and ways to solve scientific and applied problems that arise during the development of a problem, as well as mastering the conceptual and categorical apparatus and a special methodology of scientific knowledge, development of the necessary skills and abilities to produce new ideas in the field of ecology, environmental protection and sustainable use of nature.		
14.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	The role of the discipline in the structure of the curriculum of PhD applicants is high, as the applicant must be ready for effective professional research, teaching and analytical activities in a particular selected field. The main types of its activities are: conducting scientific and applied research, teaching disciplines related to the scientific field, conducting analytical and consulting		

		work in the field, the formation and implementation of research projects.
15.	The policy of academic integrity	<p>Taking this course, PhD applicants agree to comply with the requirements of the principles of academic integrity:</p> <ul style="list-style-type: none"> - solve all tasks independently without the help of outsiders; - provide only the results of their own work for evaluation; - make references to sources of information in the case of the use of ideas, developments, statements, information; - provide reliable information about the results of their own educational (scientific, creative) activities, used research methods and sources of information; - not to take steps that may improve dishonestly their own learning outcomes or worsen / improve the results of other graduates for the degree of Doctor of Philosophy; - not to publish answers to questions within the discipline to assess the knowledge of the applicants who obtain the degree of Doctor of Philosophy.
16.	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/index.php?categoryid=4815

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

Module learning outcomes: On successful completion of the module the PhD applicant will be able to:	Program learning outcomes (indicate the number according to the numbering given in the AP)			How assessed
	PLOs			
	PLOs ₃	PLOs ₉	PLOs ₁₀	
<i>MLOs 1</i> Know the modern requirements and approaches to the preparation of scientific publications, their types, methodology of preparation, scientometric databases of professional publications, the specifics of placing publications in international and domestic professional periodicals in the speciality 101 "Ecology". Act on the basis of ethical considerations and academic integrity in the process of conducting scientific research, publication of results and their implementation in the field of ecology, environmental protection and sustainable use of nature.		x		Multiple choice test
<i>MLOs 2.</i> Reflect the results of scientific research in scientific publications published both in professional domestic publications in the speciality 101 "Ecology" and in publications that are part of international scientometric databases; outline their scientific level and choose the appropriate publisher to cover the obtained scientific results, avoid common mistakes in describing the scientific results of research and their publication in the form of articles and abstracts.	x	x		Individual task
<i>MLOs 3.</i> Be able to apply modern technologies, work with modern bibliographic and abstract databases, scientometric platforms, scientific literature in the field of ecology, environmental protection and sustainable use of nature; to find scientific sources relevant to the field of scientific interests of the PhD applicants; be able to use the rules of citation and references to the sources used and the rules of bibliography.			x	Individual task
<i>MLOs 4.</i> Demonstrate the results of mastering the methodology of scientific creativity and independent research and analysis of socially significant problems and processes; ability to formulate clearly a research plan, identify problems, hypotheses and research objectives; make conclusions from the results obtained and present the results of the work performed in the form of thesis research, done in accordance with generally accepted requirements.	x			1. Analytical review with presentation 2. Individual task
<i>MLOs 5.</i> Have the ability to act socially consciously and responsibly, make decisions, self-development and self-improvement, have methods of conducting scientific discussion, accept other people's views and ideas, propose and defend their own ideas.		x		Individual task, project

PLOs₃. Plan and implement in practice an original independent scientific research, which is characterized by novelty, theoretical and practical value and contributes to the solution of significant problems of ecology, environmental protection and sustainable use of nature.

PLOs9. Communicate clearly and unambiguously in the sphere of professional knowledge, results of own research, justifications and conclusions both orally and in writing for different audiences, both nationally and internationally.

PLOs10. Apply modern technologies (including IT) in scientific and scientific-pedagogical and ecological-educational activities.

3. MODULE INDICATIVE CONTENT

Topics. (List of issues to be addressed within the topic)	Distribution of hours			Self-directed study	Learning resources
	Directed study				
	Lectures	Practicals	Labs		
<p>Theme 1. The essence of scientific publications and their role in the preparation of the thesis in the speciality 101 "Ecology".</p> <ol style="list-style-type: none"> 1. Modern requirements and approaches to the preparation of scientific publications and their significance for the successful preparation of the thesis. 2. Classification and specifics of scientific publications. 3. Abstract of the thesis and methods of its implementation. The structure of the thesis abstract. 4. Scientific report. Abstracts of the scientific report. 5. Scientific monograph, its structure, requirements for writing. 	2	2		6	1,3,10,18
<p>Theme 2. Organization of scientific article preparation and its support.</p> <ol style="list-style-type: none"> 1. Types of scientific articles: original article, scientific report, review article, etc .. 2. General requirements for the structure and content of the article. 3. Special requirements for journals. 4. Tables, illustrative materials and additional information. 5. General recommendations for the selection of the journal. 6. Covering letter to the editors of the magazine. 7. Elsevier platform for magazine selection. 	2	2		6	2,4,12,16,19,20
<p>Theme 3. Features of preparation of articles on speciality 101 "Ecology" for publication in publications indexed in Scopus and Web of science.</p> <ol style="list-style-type: none"> 1. Ensuring methodological accuracy of the scientific text in the process of publication in leading scientific publications (indexed in international scientometric databases). 	2	2		6	7,12,16,19,21

<p>2. Features of the structure of articles in publications indexed in Scopus and Web of science.</p> <p>3. Search for periodicals for publication and checking for indexing.</p> <p>4. Stages of preparation, submission and passing of article review procedures.</p> <p>5. Application of economic-mathematical modeling tools to improve the quality of articles.</p>					
<p>Theme 4. Organization of work with scientific literature in the field of ecology, environmental protection and sustainable use of nature.</p> <p>1. Modern information retrieval systems.</p> <p>2. Accumulation and processing of scientific information.</p> <p>3. Means of bibliographic information management: Zotero, Bibus, EndNote and Mendeley..</p>	2	2		6	4,13,18,24,25
<p>Theme 5. The structure of the thesis research.</p> <p>1. Basic concepts of scientific research.</p> <p>2. General methods of thesis research.</p> <p>3. Formulation and approval of the topic of thesis research.</p> <p>4. Organization of work on the thesis.</p> <p>5. Search, accumulation and processing of scientific information.</p> <p>6. Writing a review of the literature for the thesis.</p> <p>7. Presentation of the content and structure of the thesis. Introduction to the thesis.</p> <p>8. The main part of the thesis. Conclusions to the thesis. References.</p> <p>9. Presentation of text material. Rubrication of the text.</p>	2	2		6	2,9,11
<p>Theme 6. Registration of thesis research.</p> <p>1. Language and style of presentation of the material. Punctuation, syntactic design of sentences.</p> <p>2. Technical characteristics of the thesis. Titles of structural parts. Equations and formulas. Design of illustrations and digital material.</p> <p>3. Rules of citation and references.</p> <p>4. Making a list of used literature and appendices..</p>	2	2		6	2,6,7,16
<p>Theme 7. Preparation of thesis research for defense.</p> <p>1. Preliminary examination at the department.</p> <p>2. Registration of certificates of</p>	2	2		6	2,14,15

<p>completion, extract from minute of the meeting of the department.</p> <p>3. Submission of thesis to a specialized academic council.</p> <p>4. Documents required for submission of a dissertation to a specialized academic council.</p> <p>5. Opposition of the dissertation research.</p>					
<p>Theme 8. Procedure for defending thesis research.</p> <p>1. Procedure for defending thesis research.</p> <p>2. Preparation of a report for the defense of the thesis. Stylistic features of the report for the thesis defense procedure.</p> <p>3. Multimedia presentation of research results.</p> <p>4. Answers to questions from members of the specialized scientific council.</p> <p>5. Responses to comments from official opponents. Responses to comments in the responses to the abstract.</p> <p>6. Execution of documents for filling a certification case.</p>	2	2		6	2,14,15
<p>Theme 9. Ethics of scientific publications, academic integrity and responsibility.</p> <p>1. Ethics of research and preparation of publications.</p> <p>2. Types of academic dishonesty.</p> <p>3. Plagiarism and its types.</p> <p>4. Liability for breach of academic integrity.</p>	2	2		6	1,5,8
Total hours	18	18		54	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
<p>MLOs 1. Know the modern requirements and approaches to the preparation of scientific publications, their types, methodology of preparation, scientometric databases of professional publications, the specifics of placing publications in international and domestic professional periodicals in the speciality 101 "Ecology". Act on the basis of ethical considerations and academic integrity in the process of conducting scientific research, publication of results and their implementation in the field of ecology, environmental protection and sustainable use of nature.</p>	<p>Problem lecture, thematic discussion, "Round Table", relevant issues discussion</p>	6	<p>Independent work with the textbook, elaboration of theoretical material.</p>	9

MLOs 2. Reflect the results of scientific research in scientific publications published both in professional domestic publications in the speciality 101 "Ecology" and in publications that are part of international scientometric databases; outline their scientific level and choose the appropriate publisher to cover the obtained scientific results, avoid common mistakes in describing the scientific results of research and their design in the form of articles and abstracts.	Flipped classroom method, case study method, conducting consultations	6	Independent work with the textbook, performance of individual tasks	9
MLOs 3. Be able to apply modern technologies, work with modern bibliographic and abstract databases, scientometric platforms, scientific literature in the field of ecology, environmental protection and sustainable use of nature; to find scientific sources relevant to the field of scientific interests of the PhD applicants; be able to use the rules of citation and references to the sources used and the rules of bibliography.	Multimedia lecture. Teacher's consultations. Case study method thematic discussion	4	Personalized learning. Independent work with the textbook, performance of individual tasks	6
MLOs 4. Demonstrate the results of mastering the methodology of scientific creativity and independent research and analysis of socially significant problems and processes; ability to formulate clearly a research plan, identify problems, hypotheses and research objectives; make conclusions from the results obtained and present the results of the work performed in the form of thesis research, designed in accordance with generally accepted requirements	Method of Flipped classroom, Teacher's consultations. Thematic discussion	16	Independent work with the textbook, study through research	24
MLOs5. Have the ability to act consciously and responsibly, make decisions, self-development and self-improvement, have methods of scientific discussion, accept other people's views and ideas, propose and defend their own ideas.	Multimedia lecture. "Round Table", "Brainstorming". Thematic discussion	4	Independent work with the textbook, elaboration of theoretical material.	6
<i>Total hours</i>		36		54

5. ASSESSMENT

5.1. Diagnostic assessment (indicated if necessary)

5.2. Summative assessment

5.2.1. To assess the expected learning outcomes provided

No	Methods of Summative assessment	Grades	Deadline
1.	Multiple choice test	10 grades / 10%	Up to 3d week
2.	Completion of an individual task	25 grades/ 25%	Up to 8th week
3.	Analytical review on the selected topic with a presentation	25 grades/ 25%	Up to 11th week
4.	Multiple choice test	10 grades /	Up to 13th week

		10%	
5.	Written exam (multiple choice test and short answers)	30 grades / 30%	Up to 14/15th week (due to schedule)

5.2.2. Assessment criteria

Component	Unsatisfactory	Satisfactory	Good	Excellent
	<5 grades	5-6 grades	7-8 grades	9-10 grades
Multiple choice test	Less than 60% correct answers	60 % - 74 % correct answers	75 % - 89 % correct answers	90-100 % correct answers
	<11 grades	11-15 grades	16-21 grades	22-25 grades
An individual task	Slight awareness of the problem, brief description. Does not show independent thinking about the chosen topic	The description of the problem (without analysis), insufficient substantiation of the main points, insufficiently consistent argumentation, presentation is absent or presented superficially. Only literature recommended by the teacher has been processed.	Understanding, depth and / or details of the problem have been demonstrated; the main problematic aspects are substantiated, the arguments are consistent; different points of view are studied, the presentation is meaningful, consistent. Only literature recommended by the teacher has been processed.	The problem is deeply and / or in details revealed, different views on the problem are analyzed; all the main points are set out, the arguments are consistent; different points of view are analyzed, own suggestions are given.
	<11 grades	11-15 grades	16-21 grades	22-25 grades
Analytical review with a presentation	Task requirements are not fulfilled	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
	<5 grades	5-6 grades	7-8 grades	9-10 grades
Multiple choice test	Less than 60% correct answers	60 % - 74 % correct answers	75 % - 89 % correct answers	90-100 % correct answers
	<18 grades	18-22 grades	23-26 grades	27-30 grades
Written exam	<60% correct answers, problem tasks are not fulfilled	60-74 % correct answers, problem tasks are partially completed	75-89 % correct answers, problem tasks are performed with minor inaccuracies.	90-100 % correct answers, , problem tasks are performed with full reasoned answers.

5.1. Formative assessment

№	Elements of Formative assessment	Data
1	Testing in Google Forms	At practicals (introductory testing)

2	Oral feedback from the tutor and PhD applicants during the individual task	3d week
3	Oral feedback from the tutor and PhD applicants on the analytical review with the presentation	5th week
4	Oral feedback from the teacher and PhD students on the individual task	8th week
5	Written test with elements of problem tasks	9th week

6.6. LEARNING RESOURCES

Key resources

1. Academic honesty as a basis for sustainable development of the university: International Charity Foundation "International Fund of Education Research Policy" T.V. Finikova, A.E. Artyukhova Kyiv: Taxon, 2016. 234 p.
2. Gutorov O.I. Methodology and organization of scientific research: a textbook. Kharkiv: KhNU, 2017. 272p.
3. Danilyan O.G., Beak O.V. Research methodology: textbook. Kharkiv: Pravo, 2019. 368 p.
4. Degtyarev A..V, Kokodiy MG., Maslov V.O. Fundamentals of scientific research: a textbook. Kharkiv: KhNU named after V.N. Karazin, 2016. 78 p.
5. Methodology of scientific research: textbook. / V.I. Zatserkovny, I.V. Tishaev, V.K. Demidov. Nizhyn: NDU. M. Gogol, 2017. 236 p.
6. International rules of citation and reference in scientific works: methodical recommendations / authors-compilers: O. Bozhenko, Y. Koryan, M. Fedorets; editorial board: V.S.. Pashkova, O.V. Voskoboynikova-Guzeva, Ya. Ye. Soshinskaya, O.M. Bruy; Scientific and Technical Library named after G.I. Denisenko. National Technical University of Ukraine "Kyiv Polytechnic Institute named after Igor Sikorsky"; Ukrainian Library Association. - Kyiv: UBA, 2016.
7. Mokin B.I., Mokin O.B. Methodology and organization of scientific research: textbook. Vinnytsia: VNTU, 2014. 180 p.

6.1. Other sources:

8. Academic integrity: problems of compliance and priorities for dissemination among young scientists: a monograph / for general. ed. N.G. Sorokina, A.E. Artyukhov, I.O. Degtyareva. Dnipro: DRIDU NADU, 2017. 169 p.
9. Koryagin M.V., Chick M. Yu. Fundamentals of scientific research. Tutorial. 2nd ed .. K .: Alerta, 2019. 492 p.
10. Shishkina E.K., Nosyrev O.O. Research methodology: textbook. Kharkiv: Disa Plus, 2014. 200p.
11. Prathapan K. Research Methodology for Scientific Research. Dreamtech Press, 2019. 272p.
12. Barbara J. Hoogenboom, Robert C. Manske. HOW TO WRITE A SCIENTIFIC ARTICLE. Int J Sports Phys Ther. 2012 Oct; 7 (5): 512–517. URL: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3474301/?report=classic>
13. Deinichenko G.V., Postnov G.M. Methodology and organization of scientific research: textbook. Kharkiv State. University of Food and Trade. Kharkiv: KhSUFT, 2014. 115 p.
14. Preparation and defense of a dissertation for a degree in technical sciences: Inform.-reference. / Authors-compilers: D.of tech. Sciences, Prof. V.S. Morkun, Ph.D. tech. Sciences, Prof. M.I. Stupnik, Ph.D. tech. Sciences V.V. Tron. Kryvyi Rih, 2019. 110p.

6.3. Legislative acts:

15. The procedure for training applicants for higher education degrees of Doctor of Philosophy and Doctor of Science in higher educational institutions (scientific institutions), approved by the Resolution of the Cabinet of Ministers of Ukraine of March 23, 2016 № 261. URL: <https://zakon.rada.gov.ua/laws/show/261-2016-%D0%BF>.

16. Requirements for the dissertation, approved by the Order of the Ministry of Education and Science of Ukraine dated 12.01.2017 № 40. URL: <https://zakon.rada.gov.ua/laws/show/z0155-17>.

17. Law of Ukraine "On Education" of 05.09.2017 № 2145-VIII. Article 42. Academic integrity URL: <https://zakon.rada.gov.ua/laws/show/2145-19/page3#Text>.

18. Law of Ukraine "On Scientific and Scientific-Technical Activity" of April 18, 2021 № 848-VIII. <https://zakon.rada.gov.ua/laws/show/848-19#Text>.

19. On publishing the results of dissertations for the degree of doctor and candidate of sciences: order of the Ministry of Education and Science of Ukraine dated September 23, 2019 № 1220. URL: <https://zakon.rada.gov.ua/laws/show/z1086-19#Text>

6.4 Information resources:

20. Current list of scientific professional publications of Ukraine. URL: <https://mon.gov.ua/en/nauka/nauka/atestaciya-kadriv-vishoyi-kvalifikaciyi/naukovi-fahovi-vidannya>

21. Current journals and publications indexed in the scientometric database Scopus. URL: <https://www.scopus.com/sources?zone=TopNavBar&origin=NO%20ORIGIN%20DEFINED>

22. State Statistics Service of Ukraine. URL: <http://www.ukrstat.gov.ua>

23. Legislation of Ukraine. URL: <http://www.rada.gov.ua>

24. Ministry of Education and Science of Ukraine. URL: <https://mon.gov.ua/ua>

25. National Library of Ukraine named after VI Vernadsky. URL: <http://www.nbuv.gov.ua>

6.5 International specialized search engines

<http://info.studyweb.com> - specialized search system for educational resources

<http://infomine.ucr.edu> - virtual library of electronic publications

http://searchenginewatch.com/links/Specialty_Search_Engines - catalog of specialized search engines

<http://www.sciseek.com> - search for scientific information Ukrainian specialized search engines

<http://meta-ukraine.com/> The goal is a Ukrainian search engine with a wide search system for various topics, including a selection of electronic dictionaries.

6.6 English search engines

<http://www.yahoo.com/> - English search engine has the most developed structure of directories and various services. Hundreds of thousands of different Internet resources are organized manually by 14 main headings, each of which has several subheadings with a narrower topic.

<http://www.lycos.com/> - Lycos has a huge database with URLs above 66 million. This search engine (English) contains a variety of interesting information, including news, site reviews, links to popular sites, city maps, as well as tools for finding the addresses of various people and searching for web images and sound clips.

Syllabus Review

EC 9“Organization of preparation of scientific publications and thesis writing”

Author: Dashutina L.O, Associate Professor of Management Department

Parameter by which the educational program (syllabus) of the educational component is assessed by the guarantor or a member of the project team	Yes	No	Comment
Learning outcomes according the educational component (MLOs) correspond to the NQF	+		
Learning outcomes according the educational component (MLOs) correspond to the stipulated PLOs (for compulsory EC)	+		
The results of training in the educational component provide an opportunity to measure and assess the level of their achievement	+		

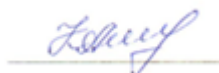
Member of the project group Ecology Academic Program



V.G. Skliar

Parameter by which the educational program (syllabus) of the educational component is assessed by the teacher of the relevant department	Yes	No	Comment
General information about the educational component is sufficient	+		
Learning outcomes for the educational component (MLOs) correspond to the NQF The list of training resources contains the necessary software products to achieve DRN	+		
Learning outcomes for the educational component (MLOs) provide an opportunity to measure and assess the level of their achievement	+		
Learning outcomes (MLOs) relate to the students competencies, not the content of the discipline (contain knowledge, skills, abilities, not topics of the curriculum of the discipline)	+		
The content of the EC is formed in accordance with the structural and logical scheme	+		
Learning activity (teaching and learning methods) allows students to achieve expected learning outcomes (MLOs)	+		
The educational component involves learning through research that is appropriate and sufficient for the corresponding level of higher education	+		
The assessment strategy within the educational component is in line with the policy of the University / faculty	+		
The provided assessment methods allow to assess the degree of achievement of learning outcomes in the educational component	+		
The workload of students is adequate to the volume of the educational component	+		
Recommended learning resources are sufficient to achieve learning outcomes (MLOs)	+		
The literature is relevant	+		
The list of training resources contains the necessary software products to achieve MLOs	+		

Reviewer



G.O. Klymenko