Ministry of education and science of Ukraine

Sumy National Agrarian University

Faculty of economics and management

Department of public management and administration

Syllabus of the educational component

CK 2 METHODOLOGY OF SCIENTIFIC RESEARCH AND SUPPORT OF THE PRINCIPLES OF ACADEMIC INTEGRITY

(compulsory component)

Speciality	Management
Educational program	**Administrative management**
level of higher education	the second (master's)

Sumy - 2025

Creators: **Tetyana Kharchenko, Doctor of Science (Public Administration), ass. Professor**

Module syllabus agreed at the Public Management and Administration Department meeting	Protocol №20 dated June 3 2025
	Head of Public Management and Administration Department _____ Alina BRYCHKO

Approved by:

Guarantor of the Academic program _____ Larysa KALACHEVSKA

Dean of the Faculty _____ Svitlana LUKASH

Syllabus review (attached) is provided by: _____ Alina BRYCHKO

_____ Svitlana LUKASH

Representative of the Department of Education Quality assurance, licensing and accreditation _____ (N Baranik)

Registered in electronic data base 19.05 2025

Information on reviewing the work program (syllabus):

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

I. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Title	Methodology of scientific research and support of the principles of academic integrity			
2.	Faculty/Department	Faculty of Economics and Management / Public Management and Administration Department			
3.	Type (compulsory or optional)	compulsory			
4.	Program(s) to which module is attached (to be filled in for compulsory types)	Educational program « Administrative Management» second level of higher education, specialty D3 «Management»			
5.	Module can be suggested for (to be filled in for optional types)				
6.	Level of the National Qualifications Framework	NQF of Ukraine – level 7, FQ-EHEA – second cycle, EQF-LLL – level 7			
7.	Semester and duration of module	The discipline is taught in the 1t semester			
8.	ECTS credits number	5 credits (150 hours)			
9.	Total workload and time allotment	Directed study			Self-directed study
		Lectures	Practicals	Labs	
		30	30		90
10.	Language of instruction	English			
11.	Module leader	Tetiana Kharchenko, Doctor of Science, Associate Professor of Public Management and Administration Department			
11.1	Module leader contact information	Email: tetyana_22_82@ukr.net SNAU, building of the Faculty of Economics and Management, aud. 310 e			
12.	Module description	The methodology of scientific research and maintaining the principles of academic integrity, as an educational discipline, ensures the formation of the ability to solve complex specialized tasks in the field of management with an understanding of the nature and content of thorough knowledge of scientific research. The discipline is aimed at mastering the modern methodology of scientific knowledge and the latest methods of scientific research, expanding their general outlook and erudition, independent and creative use of general scientific methodology in the course of scientific research and practical activities. The educational component covers all thematic blocks necessary for the formation of masters of modern scientific and ethical thinking and a system of special knowledge regarding a holistic view of science as a system of knowledge and a tool of knowledge, scientifically based views on the methodology of scientific knowledge, the essence of general scientific and special methods and principles conducting research using modern information media and processing the obtained results, their use in practical activities, as well as planning and organizing research work, forming and substantiating scientific hypotheses, about basic concepts regarding the fundamental foundations of academic integrity and the ethics of scientific research. The educational component is aimed at the formation of students of higher education with a system of theoretical knowledge and applied skills regarding the use of a wide range of academic integrity and the organization of scientific research, and the acquisition by the student of			

		basic competencies in conducting educational and scientific activities, in particular, when writing a qualification paper.
13.	Module aim	Providing the necessary amount of fundamental theoretical and practical knowledge in the field of scientific research methodology and the formation and development of the ability to independently solve tasks in the process of scientific activity, which will contribute to the development of creative thinking and the ability to apply the latest methodological tools when solving complex tasks and problems in the field of management and administration.
14.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	1. The educational component is the basis for practices and diploma design and defense of the qualification work. 2. There are no study restrictions
15.	The policy of academic integrity	According to the Code of Academic Integrity of the Sumy NAU, academic integrity is a set of principles, rules of behavior of participants in the educational process, aimed at forming an independent and responsible personality, capable of solving tasks in accordance with the educational level in compliance with the norms of law and social morality. Observance of academic integrity by students of higher education involves independent performance of educational tasks, tasks of current and final control, learning results. It is expected that students of higher education will adhere to the principles of academic integrity, being aware of the consequences of its violation, which is determined by the regulatory documents of the Sumy National Agrarian University, in particular the Code of Academic Integrity, the Regulations on the Prevention and Detection of Academic Plagiarism at the Sumy NAU (a full list of regulatory documents is posted on the university's website. https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist. For violation of academic integrity, students of higher education may be held to the following academic responsibility: - repeated assessment (test, exam, credit, etc.); - repeated completion of the training course; - warning; - issuing a reprimand; - expulsion from the university; (Part 5 of Article 48 of the draft Law of Ukraine "On Education"); - arrest or restriction of liberty, or deprivation of liberty, with deprivation of the right to hold certain positions or engage in certain activities with a fine.
16	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=4311
17	Keywords	method, methodology, scientific research, theoretical approaches, conceptual foundations, object of knowledge, subject of knowledge, scientific research, academic integrity, plagiarism

2. Correlation between Module Learning Outcomes (MLOs) and Program Learning outcomes (PLOs

Study results for Module: After studying, the student is expected to be able to:	How assessed		
	MLOs 1 Critically interpret information, select and use the necessary scientific, methodical and analytical tools for management in unpredictable conditions	MLOs 11 To ensure personal professional development and planning of own time.	As estimated
MLOs 1: After studying the educational component, the student is expected to distinguish scientific knowledge from cognitive phenomena of another kind, to possess a categorical conceptual apparatus of the philosophy of science, including in the field of management and administration	x		Tests, individual survey
MLOs 2: After studying the educational component, the student is expected to demonstrate the necessary theoretical and practical knowledge of the methods of conducting scientific research, the ability to determine priority directions for the development of management and administration	x		Abstract, tests
MLOs 3: After studying the educational component, the student is expected to be able choose and use methods of scientific research adequate to the object of research and interpret their results	x		Abstract, tests
MLOs4: After studying the educational component, the student is expected to be able to conduct information-analytical and information-bibliographic work with the involvement of modern information technologies	x	x	Presentation of individual research, tests
MLOs5: After studying the educational component, the student is expected to be able to plan, organize and carry out scientific research		x	Calendar plan of scientific research Analytical review of scientific research
MLOs6: After studying the educational component, the student is expected to be able to summarize the results of research and analytical work in the form of theses (article)	x		Thesis (article)
MLOs7: After studying the educational component, the student is expected to be able to give a moral assessment of one's own actions, correctly rely on sources of information in case of borrowing ideas, statements, information, being aware of the norms of academic integrity	x		Report plagiarism Theses (articles), review of the thesis (article) of another student of the group

3. PROGRAM OF EDUCATIONAL DISCIPLINE

Topics	Distribution of hour	Recommended

	Directed study		Self-directed study	literature
	Lectures	Practicals/seminars		
Topic 1. Science and its elements. 1. Concept of science and scientific research. 2. Subject of science. 3. Components of management as objects of scientific research and the main functions of science.	2	2	11	2, 4, 6
Topic 2. General theoretical foundations of scientific knowledge 1. Concept of methodology. 2. Selection of the methodological basis of the research. 3. Scheme of scientific knowledge. 4. The concept of scientific facts. 5. The concept of a scientific problem.	2	4	9	1, 5, 6
Topic 3. Scientific research and methods of its implementation in the field of management 1. Concept of object and subject of scientific research. 2. Concept of method, methodology and levels of scientific research. 3. Typology of methods of scientific knowledge: philosophical, general scientific, general logical, empirical and theoretical. 4. The essence and levels of the methodology. 5. Methodology of scientific research in the field of management	4	4	7	2, 4, 6
Topic 4. Stages of scientific research 1. The main stages of scientific research. 2. Identification, formation and formulation of a scientific problem. 3. The essence, nature and ways of solving a scientific problem. 4. The concept of facts of reality, their types and content. 5. The difference between a fact-event and a scientific fact.	4	2	9	2, 6, 11
Topic 5. Methods of scientific research 1. Methods of accumulating empirical material and expressing it in various forms of empirical knowledge. 2. Methods of observation, measurement, description, experiment and their role in research. 3. Types and forms of research work of masters of administrative management	4	4	7	2, 6, 11
Topic 6. Information provision of scientific research 1. The essence, types, role and significance of scientific information. 2. Procedure for finding scientific information. 3. Types of information sources. Search systems of scientific information.	2	2	11	1, 6, 11
Topic 7. Organization of research work 1. Referencing literature. 2. Execution of master's work. Justification of the topic, development of its content, conducting a scientific study, testing the results of the study in	4	4	7	2, 4, 6

the practice of the enterprises-objects of the study. Participation in the development of state budget and farm contract topics of the department. Participation in contests of scientific works of master's students, scientific and practical conferences. 3. Compilation of a scientific report, scientific article. Planning of research work by a master's student.				
Topic 8. The essence of academic integrity and its fundamental values 1. The essence and components of academic integrity. 2. Fundamental values of academic integrity. 3. Legal protection of academic integrity. 4. Components of academic dishonesty and responsibility for violations of academic integrity.	4	2	9	2, 4, 6
Topic 9. Principles of the academic integrity system 1. System of ensuring academic integrity. 2. The culture of a scientist and the principles of academic integrity. 3. Responsibility for violation of the principles of academic integrity.	2	4	9	1, 6, 11
Topic 10. Plagiarism, its detection methods and prevention measures 1. The nature and types of plagiarism. 2. Requirements for the uniqueness of scientific works and responsibility for plagiarism. 3. Methods and tools for detecting and preventing plagiarism.	2	2	11	3,7,8
Total	30	30	90	

4. TEACHING AND LEARNING METHODS

MLOs	**Teaching methods (directed study)**	**Teaching methods (self-directed study)**
MLOs 1: After studying the educational component, the student is expected to distinguish scientific knowledge from cognitive phenomena of another kind, to possess a categorical conceptual apparatus of the philosophy of science, including in the field of management and administration	Multimedia lecture Flipped classroom or learning through dialogue Discussion Classroom response system (CRS) ("clicker") (learning game platforms: Socrative, Kahoot!)	Reading (studying theoretical material) Study of the problem (library, internet publication and recommended sources of information) Self-assessment of knowledge
MLOs 2: After studying the educational component, the student is expected to demonstrate the necessary theoretical and practical knowledge of the methods of conducting scientific research, the ability to determine priority directions for the development of management and administration	Multimedia lecture Review and problem lectures, explanations, illustrations Flipped classroom or learning through dialogue Work in practical classes Classroom response system (CRS) ("clicker") (learning game platforms: Socrative, Kahoot!)	Reading (studying theoretical material) Mutual learning (peer to peer learning) Researching the problem, preparing an essay (essay) Self-assessment of knowledge
MLOs 3: After studying the educational	Multimedia lecture, lecture-	Reading (studying theoretical

component, the student is expected to be able choose and use methods of scientific research adequate to the object of research and interpret their results	discussion, Case study method	material) Collection of information material (financial reporting of the research object, the Internet), its analysis
MLOs4: After studying the educational component, the student is expected to be able to conduct information-analytical and information-bibliographic work with the involvement of modern information technologies	Multimedia lecture Work in practical classes Classroom Response System (CRS) ("clicker") (learning game platforms: Socrative, Kahoot!) Socrative, Kahoot!)	Reading (studying theoretical material) Performance of practical works Self-assessment of knowledge
MLOs5: After studying the educational component, the student is expected to be able to plan, organize and carry out scientific research	Review lecture Dialogue, explanation	Drawing up a calendar plan of one's own scientific research Analytical review on the topic of scientific research
MLOs6: After studying the educational component, the student is expected to be able to summarize the results of research and analytical work in the form of theses (article)	Lecture - conference, illustrations, overview of theses, articles	Writing a thesis (article) of the student's choice
MLOs7: After studying the educational component, the student is expected to be able to give a moral assessment of one's own actions, correctly rely on sources of information in case of borrowing ideas, statements, information, being aware of the norms of academic integrity	Review and problem lectures, exercises with explanations	Plagiarism check of one's theses (articles), analysis of a plagiarism report, writing a review of a student's theses (article) from a group of one's own choice

5. ASSESSMENT. Summative assessment

5.1.1. Intended learning outcomes methods:

№	Summative assessment methods	Grades	Deadline
1.	Analytical review of scientific research	25/25%	Until the 12th week
2.	Presentation	15/15%	Until the 13th week
3.	Article (thesis)	30/30%	Until the 14th week
4.	Multiple choice tests and an interview	30/30%	During the semester

5.1.2. Grading criteria

Summative assessment methods	Unsatisfactory	Satisfactory	Good	Excellent
Analytical review of scientific research	*<15 points* The work is partially completed, the design does not meet the requirements	15-20 points The work is completed in full; the student demonstrates elementary knowledge of individual provisions of the educational material, compares, summarizes and analyzes information processes and interprets the data, the obtained results, the design of the work partially meets	24-24 points The work is completed in full, the student reasonably teaches the educational material, analyzes, synthesizes, summarizes and evaluates information, processes and logically interprets data, the results obtained, the design of text, tables, figures, literature	25 points The work is completed in full; the student freely, independently and reasonedly presents the educational material, deeply and comprehensively discloses its content, searches, analyzes, synthesizes, summarizes and critically evaluates information, the design of the text, tables, figures, literature

		the requirements	meets the requirements	meets the requiremen
Presentation	*<13 points*	*13 points*	*14 points*	*15 points*
	The student is unable to argue the position of the work, is not oriented in the content of the work, makes significant mistakes in answers or is unable to answer the questions	The student has demonstrated an appropriate level of knowledge regarding the topic of the scientific work and its content, however, he does not always give correct answers to the questions, allows inaccuracies in the definitions of legal categories, does not always properly justify the provisions of the work	The student demonstrates an adequate level of knowledge regarding the topic of the scientific work, gives correct answers to the questions, but does not demonstrate a free orientation in related topics of the academic discipline; knows well the main provisions of his scientific work, but is not always confident in his argumentation, or does not always formulate it correctly	The student gives correct answers to all questions, demonstrates a high level of knowledge regarding the topic of the scientific work and related provisions of the relevant academic discipline, is well oriented in the content of his work, confidently presents its main provisions and conclusions, correctly argues his own position
Article (thesis)	*<20 points*	*20-23 points*	*24-28 points*	*29-30 points*
	an attempt to argue one's opinion, but not convincingly, theses are prepared for a student conference, the style of the article (theses) is descriptive, the text is fragmentary, requires significant editing, there are textual borrowings without references to the source, there are no conclusions	ideas are proposed, but without convincing justification, the presentation of the results of the conducted research is descriptive, there are no conclusions, the text of the article (theses) is complete, but requires substantial editing, theses are prepared for an all-Ukrainian conference, there are violations of the logic of the presentation..	the presentation of the results of the conducted research is descriptive in nature, there are no independent conclusions, the text of the article (theses) is coherent and logical, but requires some editing, theses are prepared for an international conference,	the article (thesis) is one-person, the theses are prepared for an international conference, the material is presented logically, the conclusions are independent, reasoned, convincing and correspond to the tasks, the style of the article is scientific, the text does not require editing
Multiple choice tests and an interview	*<20 points*	*20-23 points*	*24-28 points*	*29-30 points*
	correct answers up to 30%, failed the interview	correct answers from 30 to 50%, partially passed the interview	correct answers from 50 to 90%, partially passed the interview	correct answers from 90 to 100%, interview passed

5.2. Formative assessment:

To assess the current progress in learning and understand the directions for further improvement is provided

№	Formative Assessment elements	Date
1	Express survey after studying each topic	Every class
2	Exchange of ideas	2, 4, 6, 8, 10, 13 week
3	Essay on the topic of independent study of the discipline, their discussion	In a week
4	Self-assessment of completed tasks	7 week, 14 week
5	Verification and discussion of the prepared calendar plan of scientific research	12 week
6	Reviewing of completed works and their discussion	6 week, 13 week
7	Verbal feedback from the teacher while working on a scientific paper, article, theses during the semester	Every class

5.3. Total number of OK points and rating scale

Sum of points	Examination by national scale	
	examination	credit
90 – 100	excellent	credited
82-89	good	
75-81		
69-74	satisfactoty	
60-68		
35-59	Unsatisfactory, repeated passing is possible	Not credited, repeated passing is possible
0-34	Unsatisfactory, repeated discipline's studying is needed	Not credited, repeated discipline's studying is needed

6. Learning Resources

6.1. Key Resources

1. Vazhynskyi S.E., Shcherbak T.I. Methodology and organization of scientific research: teaching. manual Sumy: A.S. Makarenko State State University of Sumy, 2016. 260 p.

2. Gutorov O.I. Methodology and organization of scientific research: teaching. manual. H.: KHNAU. 2017. 272 p.

3. Methodology and organization of scientific research: teaching. manual / I. S. Dobronravova, O. V. Rudenko, L. I. Sydorenko and others. ; under the editorship I. S. Dobronravova (part 1), O. V. Rudenko (part 2). K.: VOC "Kyiv University", 2018. 607 p.

4. Methodology and organization of scientific research (in structural and logical schemes): teaching. manual. Yu.I. Danko, V.Yu. Medvid, I.I. Koblyanska, 2018. 220 p.

5. Danilyan O.G., Dzoban O.P. Methodology of scientific research: textbook. Kharkiv: Pravo, 2019. 368 p.

6. Radionova L.O., Radionova O.M. Methodology of scientific research: a course of lectures for masters of full-time, correspondence (distance) education and professional development of all specialties. Kharkiv: XNUMX named after O. M. Beketova. 2019. 124 p.

6.2. Additional resourses

1. Ryzhko O. M. Combating plagiarism in the context of the problem of academic honesty: social communication aspect. State and regions. Series: Social communications. 2017. No. 3(31) pp. 40-47.

2. Ryzhko O. Concepts, types, classification of plagiarism. URL: https://www.donnu.edu.ua/wp-content/uploads/sites/8/2019/08/Ponyattya_ vidi_klasif.plagiatu.pdf

3. Satsyk V. Academic integrity: a mythical concept or an effective concept. URL: https://saiup.org.ua/novyny/akademichna-dobrochesnist-mifichna-kontseptsiya-chy-diyevyj-kontsept/

4. Wednesday H.V. Plagiarism as a form of academic fraud. URL: https://core.ac.uk/download/pdf/158553972.pdf

5. Tytska, J. "Academic integrity" and "academic responsibility" in ensuring the quality of education. Entrepreneurship, economy and law. 2018. No. 11. P. 192 - 195 URL: http://pgp-journal.kiev.ua/archive/2018/11/37.pdf

6. Fundamental values of academic integrity Translation from English. SAIUP. URL: https://www.academicintegrity.org/wp-content/uploads/2019/04/Fundamental_Values_version_in_Ukrainian.pdf

7. Chornyi I.V., Pertseva V.A., Golopych I.M. Dissertation research methodology. The main features of the scientific style: a study guide. Kharkiv, KhNUVS. 2019. 272 p.

8. Chopina I. Genesis of legal support of academic integrity. Bulletin of KNU named after T. Shevchenko. Military special sciences. 2020. Issue 1. P. 36-39. URL: http://nbuv.gov.ua/UJRN/VKNU_vsn_2020_1_10

9. Latynin M., Kharchenko T. Theoretical approaches to the formation of state regulation mechanisms for the sustainable development of the agricultural sector of the economy of Ukraine. Theory and practice of state governance: collection of scientific works by Kh.: Publishing house of the Kharkiv National Academy of Sciences "Master", 2020. Issue 4 (71). P. 73-80.

10. Kharchenko T.O. Methodological support for assessing the development of the agricultural sector of the economy of Ukraine in terms of sustainable development indicators. Current problems of public administration: collection of scientific. pr. ORIDU. Issue 3(84), 2021. pp. 247-251.

11. Kharchenko T.O. Main approaches to forming the concept of sustainable development of the agricultural sector and rural areas through state regulation instruments. Dnipro Scientific Journal of Public Administration, Psychology, Law. 2022. No. 5. pp. 38-44.DOI https://doi.org/10.51547/ppp.dp.ua/2022.5.7

12. Kharchenko T.O. Conceptual approaches to sustainable development of the agricultural sector of the economy of Ukraine in the system of current state policy. State and regions. Series: State administration. 2021. Issue 1(71). Pp. 77-83.

Work program review (syllabus)

The parameter by which the work program (syllabus) of the educational component is evaluated by the guarantor or a member of the project group	Yes	NO	Comment
Learning outcomes for educational component correspond to the NQF	x		
Learning outcomes for educational component correspond to the stipulated PRN (for compulsory EC)	x		
Learning outcomes for educational component provide an opportunity to measure and assess the level of their achievement	x		

Member of the project group of the "Administrative management" Svitlana LUKASH

The parameter by which the work program (syllabus) of the educational component is evaluated by the teacher of the corresponding department	Yes	No	Comment
General information about the educational component is sufficient.	x		
Learning outcomes for the educational component correspond to the NQF.	x		
Learning outcomes by educational component provide an opportunity to measure and evaluate the level of their achievement.	x		
Learning outcomes (LRE) relate to students' competencies, not the content of the discipline (contain knowledge, abilities, skills, and not the topics of the discipline's curriculum)	x		
The content of the OK is formed in accordance with the structural and logical scheme	x		
Educational activity (teaching and learning methods) enables students to achieve the expected learning outcomes	x		
The educational component involves learning through research that is appropriate and sufficient for the relevant level of higher education	x		
The assessment strategy within the educational component is in accordance with the policy of the University/faculty	x		
The provided assessment methods make it possible to assess the degree of achievement of learning outcomes by educational component.	x		
The workload of students is adequate to the volume of the educational component.	x		
The recommended learning resources are sufficient to achieve the learning outcomes.	x		
The literature is relevant	x		
The list of educational resources contains the software products necessary to achieve learning outcomes.	x		

Associate Professor at the Department
of Public Management and Administration Alina BRYCHKO