

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
SUMY NATIONAL AGRARIAN UNIVERSITY**

**Department of Management named by Professor L.I. Mykhailova**

**Faculty of Economics and Management**

**MODULE SYLLABUS**

**THE METHODOLOGY OF SCIENTIFIC RESEARCH**

**status is mandatory**

It is implemented within the educational program «Management»  
(name)

**in the specialty D3 «Management»**  
(code, name)

Qualification: Doctor of Philosophy  
the third (educational and scientific) level of higher education

**Sumy-2025**

Author: [Signature] (Stoyanets N., D. of E.S., Professor)

|                                                                                                                  |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Module syllabus<br>agreed at the<br>Department of<br>Management named<br>by Professor L.I.<br>Mykhailova meeting | Protocol № 15 dated 10.06.2025                                                                        |
|                                                                                                                  | Head of Management Department named by Professor L.I.<br>Mykhailova <u>[Signature]</u> (A. Oriekhova) |

**Approved by:**

Guarantor of the Academic program [Signature] Inna SOKHAN

Dean of the Faculty [Signature] Svitlana LUKASH

Head of the Department of Postgraduate and Doctoral Studies,  
where the educational program is implemented [Signature] Svetlana YAROSHCHUK  
Syllabus review (attached) is provided by : [Signature]

Representative of the Department of Education Quality assurance,  
licensing and accreditation [Signature] [Signature]

Registered in electronic data base 20.06 2025

## 1. MODULE OVERVIEW

|     |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |      |
|-----|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|
| 1.  | Title                                                            | the methodology of scientific research                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |      |
| 2.  | Faculty/Department                                               | Faculty of Economics and Management/ Management Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |      |
| 3.  | Type                                                             | mandatory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |      |
| 4.  | Program(s) to which module is attached                           | Educational and professional program "Management" in specialty D3 "Management"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |      |
| 5.  | Module can be suggested for (to be filled in for optional types) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |      |
| 6.  | Level of the National Qualifications Framework                   | the third (educational and scientific) level of higher education<br>Doctor of philosophy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |      |
| 7.  | Semester and duration of module                                  | 1th semester, 18 weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |      |
| 8.  | ECTS credits number                                              | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |      |
| 9.  | Total workload and time allotment                                | Directed study                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |      |
|     |                                                                  | Lectures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Practicals | Labs |
|     |                                                                  | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20         | 50   |
| 10. | Language of instruction                                          | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |      |
| 11. | Module leader                                                    | Stoyanets Nataliya – D.of E.S., Professor, Professor at the Management Department<br>Hours of consultations - every Tuesday at 12.15, room 303 e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |      |
| 12. | Module leader contact information                                | Natalystoyanez@gmail.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |      |
| 13. | Module description                                               | <p>The course is designed to provide students with the knowledge, necessary for conducting scientific research within the framework of the dissertation work.</p> <p>The course covers the main issues of methodology and organization of research activities, concepts, principles, features of planning, methods, structure and technologies of theoretical and experimental research.</p> <p>The course improves students' ability to think critically and constructively evaluate the coherence and adequacy of various options and parts research process. It should affect their own research methodology of projects and develops their abilities discuss and assist other research projects, increases their competence in the research community and ability to perform other tasks related to research, such as: reviewer and opponent / panelist.</p> |            |      |
| 14. | Module aim                                                       | <p>The main tasks of teaching the academic discipline "methodology of conducting scientific research" are:</p> <ul style="list-style-type: none"> <li>- obtaining knowledge in the field of scientific knowledge methodology necessary for writing a scientific qualification work (PhD);</li> <li>- acquiring knowledge about the organization of scientific research, writing and design of scientific articles, about the procedure for defending a PhD;</li> <li>- acquiring knowledge in the field of organization of scientific and research activities in a higher education institution;</li> <li>- the development of the future scientist's personality, the</li> </ul>                                                                                                                                                                                |            |      |

|     |                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                          | formation of competencies that contribute to self-realization in research activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15. | Module Dependencies (prerequisites, co-requisites, incompatible modules) | is the formation and development of a scientific outlook and the scientific creativity of the researcher - graduate student and students' acquisition of skills and competencies to set scientific tasks, plan their implementation, organize the collection and processing of information, create conditions for the generation of new ideas and their practical implementation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 16. | The policy of academic integrity                                         | <p>According to the Code of Academic Integrity of Sumy NAU, academic integrity is a set of principles, rules of conduct of participants in the educational process, aimed at forming an independent and responsible personality, able to solve problems in accordance with the educational level in accordance with law and public morality. Academic integrity of applicants for higher education involves independent performance of educational tasks, tasks of current and final control, learning outcomes. It is expected that higher education students will adhere to the principles of academic integrity, aware of the consequences of its violation, which is determined by the regulations of Sumy National Agrarian University, including the Code of Academic Integrity, Regulations on Prevention and Detection of Academic Plagiarism in Sumy NAU. <a href="https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/">https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/</a>).</p> <p>For violation of academic integrity, applicants for higher education may be held subject to such academic liability, namely:</p> <ul style="list-style-type: none"> <li>- academic fraud (use of the telephone when writing written works) will lead to re-submission of work;</li> <li>- write-off - from the first warning to cancel the job;</li> <li>- plagiarism will cancel the job</li> </ul> |
|     | keywords:                                                                | methodology, methods, research, concept, empirical methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 17  | Link in Moodle                                                           | <a href="https://cdn.snau.edu.ua/moodle/course/view.php?id=6166">https://cdn.snau.edu.ua/moodle/course/view.php?id=6166</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

| MLOs:<br>On successful completion of the module the learner will be able to:                                                                                                                                                                                                                                                        | PLOs |       |       | How assessed                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                     | PLO1 | PLO 3 | PLO 5 |                                                      |
| MLOs 1. To know the concept, content, purpose and functions of science, the main features of scientific research, its systematicity, evidentiality and theoreticality through empirical, logical and theoretical cognitive tasks of scientific research.                                                                            | x    |       | x     | Multiple-choice tests, writing essays in oral format |
| MLOs 2. Carry out a sequence of logic and methodology of scientific research. The main components of scientific research methodology.                                                                                                                                                                                               |      | x     |       | Presentation preparation,                            |
| MLOs 3. Use basic empirical and theoretical methods of scientific research. General characteristics of empirical methods. Observation and experiment, comparison and measurement.                                                                                                                                                   |      | x     |       | Multiple-choice tests, writing essays in oral format |
| MLOs 4. Determine the object, subject, and topic of research. Preliminary familiarization with the literature and definition of the main directions. Collection and selection of information for research. Formulation of general and intermediate research goals. Be able to build a research hypothesis, choose research methods. |      |       |       | Writing theses for participation in the conference   |
| MLOs 5. Know the requirements for the level of scientific qualification of persons who obtain the degree of Doctor of Philosophy, and registration of the results. The project of the procedure for awarding the degree of Doctor of Philosophy                                                                                     |      | x     | x     | Writing a professional article                       |

PLO 1 Apply modern tools and technologies for searching, processing and analyzing information, in particular, statistical methods for analyzing data of a large volume and/or complex structure, specialized databases and information systems.

PLO 3 Develop and research conceptual, mathematical and computer models of processes and systems, effectively use them to obtain new knowledge and/or create innovative products in the field of management and related interdisciplinary areas.

PLO 5 Deeply understand the general principles and methods of management sciences, as well as the methodology of scientific research, apply them in one's own research in the field of management and in teaching practice.

### 3. MODULE INDICATIVE CONTENT

#### Autumn semester

| Topic.<br>List of issues to be considered within the topic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Distribution of hours |            |                | Learning resources |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|----------------|--------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Directed study        |            | Directed study |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lectures              | Practicals | Lectures       |                    |
| <p><i>Topic 1. "The concept of scientific research"</i></p> <p>1.Science as a system of knowledge. The concept, content, purpose and functions of science</p> <p>2.The main features of scientific research. Systematicity, evidentiality and theoreticity of scientific research.</p> <p>3. Empirical, logical and theoretical cognitive tasks of scientific research.</p> <p>4.Forms of organization and management of science in Ukraine. Classification of scientific research.</p>                                                                                   | 2                     |            | 10             | 1, 2, 3, 4, 5,     |
| <p><i>Topic 2. "The concept of methodology, method, reception in scientific research Typology of research methods"</i></p> <p>1.Logic and methodology of scientific research.</p> <p>2.The concept of a systematic, complex and holistic approach in scientific research. 3.General scientific, partial and special research methods.</p> <p>4.The main components of scientific research methodology.</p>                                                                                                                                                                | 2                     | 2          | 10             | 1, 2, 3, 4, 5      |
| <p><i>Topic 3. "Empirical and theoretical methods of scientific research research methods"</i></p> <p>1.Principles of a scientist. General characteristics of empirical methods.</p> <p>2.Observation and experiment, comparison and measurement.</p> <p>3.Formalization and axiomatization as methods of scientific research. General scientific theoretical methods, analysis and synthesis, their types: empirical, elementary-theoretical, structural-genetic. Deduction and induction.</p> <p>4.The concept of general and partial. Modeling and its principles.</p> | 2                     | 2          | 5              | 1, 2, 3, 4, 5,     |
| <p><i>Topic 4. "Structure of the research: substantiation of the relevance and definition of the topic of the research, its goal, task"</i></p> <p>1.Concept of relevance of research and determination of its degree scientific development.</p>                                                                                                                                                                                                                                                                                                                         | 2                     | 2          | 5              | 3, 4, 5,           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |    |    |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------|
| 2. Definition of the object, subject, topic of research. Preliminary familiarization with the literature and definition of the main directions.<br>3. Collection and selection of information for research. Formulation of general and intermediate research goals.                                                                                                                                                                                                                       |    |    |    |               |
| <i>Topic 5. "Development of conceptual provisions and apparatus research (hypotheses, methods, stages, objects, means). Study of the theoretical and practical state of the problem »</i><br>1. The choice of methodology, basic theoretical provisions of the study.<br>2. Determination of course and prediction of research results. Building a research hypothesis, choosing research methods.<br>3. Types of hypotheses: null, descriptive, explanatory, basic, working, prognostic. | 2  | 2  | 10 | 1, 2, 3, 4    |
| <i>Topic 6. "Requirements for the level of scientific qualification of persons who obtain the degree of doctor of philosophy, registration of results"</i><br>1. Processing of research data and forms of display of scientific research results<br>2. Analysis and generalization of research data.<br>3. Determining the representativeness of conclusions.<br>4. The project of the procedure for awarding the degree of Doctor of Philosophy                                          | -  | 2  | 10 | 1, 2, 3, 4, 5 |
| <b>In total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20 | 20 | 50 |               |

#### 4. TEACHING AND LEARNING METHODS

| <b>MLOs</b>                                                                                                                                                                                                                                              | <b>Teaching methods (directed study)</b>                  | <b>Hours</b> | <b>Learning methods (self-directed study)</b>                       | <b>Hours</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|---------------------------------------------------------------------|--------------|
| MLOs 1. To know the concept, content, purpose and functions of science, the main features of scientific research, its systematicity, evidentiality and theoreticality through empirical, logical and theoretical cognitive tasks of scientific research. | Lecture, practical occupation, discussion relevant issues | 8            | Independent work with the textbook, performance of individual tasks | 10           |

|                                                                                                                                                                                                                                                                                                                                     |                                                                                    |   |                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|---------------------------------------------------------------------|----|
| MLOs 2. Carry out a sequence of logic and methodology of scientific research. The main components of scientific research methodology.                                                                                                                                                                                               | Problem lecture, thematic discussion, analysis of specific situations (Case-study) | 8 | Independent work with the textbook, performance of individual tasks | 10 |
| MLOs 3. Use basic empirical and theoretical methods of scientific research. General characteristics of empirical methods. Observation and experiment, comparison and measurement.                                                                                                                                                   | Problem lecture, thematic discussion, analysis of specific situations (Case-study) | 8 | Independent work with the textbook, performance of individual tasks | 10 |
| MLOs 4. Determine the object, subject, and topic of research. Preliminary familiarization with the literature and definition of the main directions. Collection and selection of information for research. Formulation of general and intermediate research goals. Be able to build a research hypothesis, choose research methods. | Problem lecture, thematic discussion, "round table", "Brainstorming".              | 8 | Independent work with the textbook, performance of individual tasks | 10 |
| MLOs 5. Know the requirements for the level of scientific qualification of persons who obtain the degree of Doctor of Philosophy, and registration of the results. The project of the procedure for awarding the degree of Doctor of Philosophy                                                                                     | Analysis of specific production situations, solution of situational problems.      | 8 | Independent work with the textbook, performance of individual tasks | 10 |

## 5. ASSESSMENT

### 5.1. Diagnostic assessment

### 5.2. Summative assessment

#### 5.2.1. Intended learning outcomes methods:

| No | Summative assessment methods                                                           | Grades | Deadline                                               |
|----|----------------------------------------------------------------------------------------|--------|--------------------------------------------------------|
|    | Testing                                                                                | 20/20% | During the semester                                    |
|    | Multiple choice test (intermediate certification)                                      | 15/15% | On the 7th week                                        |
|    | IT (individual tasks for classroom work; individual tasks for independent performance) | 35/35% | At the end of each practical session; on the 14th week |
|    | Exam (by tickets)                                                                      | 30/30% | According to the schedule of the session               |

#### 5.1.1. Grading criteria

| Summative assessment method | Unsatisfactory | Satisfactory | Good         | Excellent    |
|-----------------------------|----------------|--------------|--------------|--------------|
| Testing                     | < 12 points    | 12-14 points | 15-17 points | 18-20 points |

|                                                   |                                                                       |                                                                                                       |                                                          |                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                   | <i>the correct answer was provided for less than 60% of the tasks</i> | <i>the correct answer was provided for 60%-74% of the tasks</i>                                       | <i>75% - 89% of tasks were answered correctly</i>        | <i>90% or more tasks were answered correctly</i>                                                                    |
| Multiple choice test (intermediate certification) | < 8 points                                                            | 8-10 points                                                                                           | 11-13 points                                             | 14-15 points                                                                                                        |
|                                                   | < 5 correct answer                                                    | 5-6 correct answer                                                                                    | 7-8 correct answer                                       | 9-10 correct answer                                                                                                 |
| Individual tasks                                  | < 20 points                                                           | 20-26 points                                                                                          | 27-30 points                                             | 31-35 points                                                                                                        |
|                                                   | <i>Task requirements not met</i>                                      | <i>Most of the requirements are met, but some components are missing or insufficiently disclosed.</i> | <i>All requirements of the task have been fulfilled.</i> | <i>All the requirements of the task were fulfilled, the results were presented as part of a general discussion.</i> |
| Exam (by tickets)                                 | < 20 points                                                           | 20-24 points                                                                                          | 25-27 points                                             | 28-30 points                                                                                                        |
|                                                   | <i>Task requirements not met</i>                                      | <i>Most of the requirements are met, but some components are missing or insufficiently disclosed.</i> | <i>All requirements of the task have been fulfilled.</i> | <i>All the requirements of the task were fulfilled, the results were presented as part of a general discussion.</i> |

### Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

| № | Formative Assessment elements                                                                                                       | Date                                            |
|---|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1 | Testing in Google Forms, Kahoot, Quizizz                                                                                            | At each practical lesson (introductory control) |
| 2 | Oral feedback from the teacher and students on the implementation of individual calculation and analytical tasks                    | For 5 weeks                                     |
| 3 | Oral feedback from the teacher and students on the performance of an individual task on the main types of empirical social research | For 10 weeks                                    |
| 4 | Oral feedback from the teacher and students on the implementation of the individual task of choosing sociometric criteria           | For 15 weeks                                    |
| 5 | Oral feedback from the teacher and students on the project implementation (preparation, presentation, defense)                      | For 18 weeks                                    |

Self-assessment can be used as an element of summative assessment and formative assessment.

## 6. LEARNING RESOURCES

### 6.1.Key resources

#### 6.1.1. Textbooks, manuals

1. C. George Thomas (2021) Research Methodology and Scientific Writing Kerala Agricultural University, Thrissur, India 620p.
2. Gabriella Punziano Angela Delli Paoli (2021) Handbook of Research on Advanced Research Methodologies for a Digital Society (2 Volumes) 919 Pages DOI: 10.4018/978-1-7998-8473-<https://www.igi-global.com/book/handbook-research-advanced-research-methodologies/270864>
3. Valerie Sheppard Research Methods for the Social Sciences: An Introduction (2020). 280 <https://www.researchgate.net/profile/Valerie->

[Sheppard/publication/353999416\\_Research-Methods-for-the-Social-Sciences-An-Introduction\\_Updated\\_Aug\\_2021/links/611e420f0c2bfa282a55960b/Research-Methods-for-the-Social-Sciences-An-Introduction-Updated-Aug-2021.pdf](https://sheppard/publication/353999416_Research-Methods-for-the-Social-Sciences-An-Introduction_Updated_Aug_2021/links/611e420f0c2bfa282a55960b/Research-Methods-for-the-Social-Sciences-An-Introduction-Updated-Aug-2021.pdf)

4. Dr R B Gupta.( 2019) Social Science Research Methodology: Concepts and Processes binding : Hardbound 215 p.

5. John W. Creswell and J. David Creswell (2020) Research Design: Qualitative, Quantitative, and Mixed Methods Approaches  
[https://www.ucg.ac.me/skladiste/blog\\_609332/objava\\_105202/fajlovi/Creswell.pdf](https://www.ucg.ac.me/skladiste/blog_609332/objava_105202/fajlovi/Creswell.pdf)

### **6.3 Software**

1 Use of standard Microsoft packages: Word, Excel, PowerPoint.

2 Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens).

3 Service for organising online classes and webinars "Zoom"

### **methodological publications**

N. Stoyanets. Methodology of scientific research. Synopsis of lectures for applicants of the specialty "Management" at the third (Doctor of Philosophy) level of higher education full-time Stoyanets N. - Sumy, 2025. – 101 p.

N. Stoyanets. Methodology of scientific research. Methodological instructions for independent work and completion of individual tasks for applicants of the specialty "Management" at the third (Doctor of Philosophy) level of higher education full-time 33 p., (Протокол № 10 від 16 травня 2025 р)

N. Stoyanets. Methodology of scientific research. Methodological recommendations for practical classes for applicants of the specialty "Management" at the third (Doctor of Philosophy) level of higher education full-time 35 p., (Протокол № 10 від 16 травня 2025 р)

### **Information resources**

1. Elsevier [Electronic resource]. – Access mode: <http://www.elsevier.com>.

2. Science Direct [Electronic resource]. – Access mode: <https://www.sciencedirect.com/>.

3. ORCID [Electronic resource]. – Access mode: <http://www.orcid.org>.

4. Scopus for authors [Electronic resource]. – Access mode: <https://www.scopus.com/home.uri?zone=header&origin=>.

5. Legislation of Ukraine [Electronic resource]. – Access mode: <https://rada.gov.ua/>.

6. Funding of scientific research in Ukraine and the world [Electronic resource]. - Access mode: <http://edclub.com.ua/analitika/finansuvannya-naukovyhdoslidzhenv-ukrayini-ta-sviti>.

6. Science in universities [Electronic resource]. – Access mode: <https://mon.gov.ua/ua/nauka/nauka/nauka-v-universitetah>.

7. Academic mobility [Electronic resource]. – Access mode: <https://mon.gov.ua/ua/osvita/visha-osvita/osvita-za-kordonom/akademichnamobilnist>

### **Legislative framework**

1. On innovative activity: Law of Ukraine. Ost. ed. dated 07/26/2010 [Electronic resource]. Access mode: <http://zakon.rada.gov.ua>.

2. The Law of Ukraine "On Scientific and Scientific-Technological Activity" is in force, current edition dated 10.20.2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show/1560-12#Text>

3. The Law of Ukraine "On Priority Areas of Innovative Activity" is in force, current edition dated 10.20.2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show>

4. The Law of Ukraine "On the Special Regime of Innovative Activity of Technological Parks" is in force, current version dated 10.20.2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show>

5. The Law of Ukraine "On Scientific and Technical Information" (dated 06/25/93 No. 3323-XII) is in force, current version dated 10/20/2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show/1560-12#Text>.

6. The Law of Ukraine "On priority areas of development of science and technology" (from 11.07.2002 No. 2623-III) is in force, current edition from 20.10.2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show/1560-12#Text>.

7. Resolution of the Verkhovna Rada of Ukraine "On the concept of scientific, technical and innovative development of Ukraine" (dated 07.13.99 No. 916-XIIB) is valid, current edition dated 10.20.2019, basis - 155-IX. URL: <https://zakon.rada.gov.ua/laws/show/1560-12#Text>.

8. Science in universities [Electronic resource]. – Access mode: <https://mon.gov.ua/ua/nauka/nauka/nauka-v-universitetah>.

9. Academic mobility [Electronic resource]. – Access mode: <https://mon.gov.ua/ua/osvita/visha-osvita/osvita-za-kordonom/akademichnamobilnist>

20. Grants [Electronic resource]. – Access mode: <http://zrda.org/grants/>.

#### **International specialized search engines**

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

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

[http://searchenginewatch.com/links/Specialty\\_Search\\_Engines](http://searchenginewatch.com/links/Specialty_Search_Engines) – a catalog of specialized search engines

<http://www.sciseek.com> – search for scientific information Ukrainian specialized search systems

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

#### **English-language search engines**

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

<http://www.lycos.com/> - Lycos includes a huge database with more than 66 million URLs. This search engine (in English) contains a variety of interesting information, including news, node reviews, links to popular nodes, city maps, as well as tools for finding addresses of different people and searching for web images and sound clips.