



Researching and Writing a Master's Thesis

Working program of the academic discipline (Syllabus)

Requisites of the academic discipline

Level of Higher Education	The Second (master's level)
Field of Knowledge	05 - Social and behavioral sciences
Speciality	054 Sociology
Educational Program	Social Data Analytics
Status of Discipline	Normative
Form of Learning	Full-time
Year of Education, Semester	2 year, 1 semester
ECTS	3,0 credits
Form of Control	Final test / MKR
Schedule	https://schedule.kpi.ua/
Language	Ukrainian / English
Information about course leader / teachers	Lecturer: Igor Pygolenko, PhD, associate professor, e-mail: pigolenko@gmail.com Practical Classes: Igor Pygolenko, PhD, associate professor, e-mail: pigolenko@gmail.com
Course placement	Link to remote Moodle resource: https://do.ipk.kpi.ua/course/view.php?id=8049

Curriculum of the discipline

1. Description of the discipline, its purpose, subject of study and learning outcomes

Studying at the second, master's level of higher education involves writing and defending a qualification work - a master's thesis. A necessary prerequisite for successfully writing and defending a master's thesis is the ability and skills to conduct independent scientific research. The results of such research should be an integral and most important component of the entire final work of the master's student.

The course "Research work on the topic of a master's thesis" provides an opportunity to get a clear idea of the requirements and methodology for conducting scientific research, prepares master's students for independent research and writing scientific works, primarily master's theses. This discipline is an important component of studying fundamental and professionally oriented disciplines. It lays the foundation for future sociologists to obtain in-depth knowledge of the problems of methodology and organization of sociological research for their further application in practical activities as graduate students, sociology teachers, research assistants, and experts.

Competencies acquired during the study of the discipline:

General competencies:

- **3K 02** - Ability to work autonomously.

Professional competencies:

- **ΦΚ 03** - Ability to design and conduct sociological surveys, develop and justify their methodology.
- **ΦΚ 04** - Ability to collect and analyze empirical data using modern methods of sociological surveys.
- **ΦΚ 06** - Ability to adhere to the norms of professional ethics of a sociologist and to be guided by universal values.
- **ΦΚ 10** - Ability to present the results of scientific research and prepare academic reports and publications.

Programme learning outcomes

- **ΠΡΗ 04** - Apply scientific knowledge, sociological and statistical methods, digital technologies, specialized software to solve complex problems of sociology and related fields of knowledge
- **ΠΡΗ 05** - Search, analyze and evaluate the necessary information in the scientific literature, data banks and other sources.
- **ΠΡΗ 07** - Solve ethical dilemmas in accordance with the norms of professional ethics of the sociologist and universal human values.
- **ΠΡΗ 09** - To plan and conduct research in the sphere of sociology, to analyze the results, to defend the conclusions.
- **ΠΡΗ 11** - Summarize the results of one's own research and present them in academic reports and publications.

2. Pre-requisites and post-requisites of the discipline (place in the structural and logical scheme of training according to the relevant educational program)

Prerequisites. To successfully master the discipline, students must complete training in the following academic disciplines: "Analytical Sociology and Social Behavior: Modern Approaches", "Methodology and Methods of Sociological Research in the Digital Age". In addition, it is desirable to have basic skills in working with specialized software for processing and analyzing quantitative social information (e.g., OSA, SPSS, R), with sociological data archives (e.g., the National Bank of Sociological Data "Kyiv Archive").

In parallel, "Research work on the topic of the master's thesis" is mastered with the following educational components: "Analytical Sociology and Social Behavior: Modern Approaches", "Computer Analysis of Social Information and Data Visualization".

Postrequisites. After completing the course "Methodology and Methods of Sociological Research in the Digital Age", students will be able to continue their studies or perform research tasks within the educational component "Completion of a Master's Thesis".

The knowledge, skills and abilities obtained during training in this discipline can be successfully applied in mastering other special and industry sociological disciplines.

3. Content of the academic discipline

Names of sections and topics	Number of hours				
	Total	including			
		Lectures	Seminary	Лабораторні (комп'ютерний практикум)	IWS
Topic 1. The concept, structure and types of scientific research.	10	2	2		6
Topic 2. The problem of truth and the structure of scientific knowledge.	9	2	2		5
Topic 3. The concept of "knowledge" and approaches to its analysis	9	2	2		5
Topic 4. General scientific methods: classification.	9	2	2		5
Topic 5. Choosing a topic for scientific research and determining its relevance.	9	2	2		5
Topic 6. Using artificial intelligence (AI) in scientific research	9	2	2		5
Topic 7. Writing a master's thesis: stages of preparation.	9	2	2		5
Topic 8. Principles of working with sources.	8	2	1		5
Topic 9. Generalization of the results of scientific research and forms of its approbation	8	2	1		5
MKW	6		2		4
Final test	4				4
Total hours	90	18	18		54

4. Training materials and resources

4.1. Basic literature:

1. Бабіченко, А. К. Основи наукових досліджень : навчальний посібник для студентів закладів вищої освіти / авторський колектив: А.К. Бабіченко, М.О. Подустов, В.І. Вельма, Ю.А. Бабіченко [та 2 інших] ; за редакцією А.К. Бабіченка ; Міністерство освіти і науки України, Міністерство охорони здоров'я України, Національний технічний університет "Харківський політехнічний інститут", Національний фармацевтичний університет. Харків : Друкарня Мадрид, 2021. 133 с.

2. Дизайн дослідження: підходи на основі якісних, кількісних і змішаних методів / пер. Ігор Кобель, Тарас Кобель. Львів : Видавництво Українського католицького університету, 2022. 284 с.
3. Кислий, В. М. Організація наукових досліджень : навчальний посібник для студентів вищих навчальних закладів . Суми : Університетська книга, 2023. 223 с.
4. Костін, Ю. Д. Теорія і методологія наукових досліджень : навчальний посібник для студентів (магістрів) усіх форм навчання / Ю.Д. Костін, Т.В. Полозова, І.А. Шейко, Д.Ю. Костін ; Міністерство освіти і науки України, Харківський національний університет радіоелектроніки. Харків : ХНУРЕ, 2021. 152 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000634072&local_base=KPI01
5. Магістерська дисертація : рекомендації до структури, змісту, організації виконання та захисту [Електронний ресурс] : навч. посіб. для здобувачів ступеня магістра за спеціальністю С5 Соціологія / КПІ ім. Ігоря Сікорського ; уклад.: І. В. Пиголенко, Т. В. Коломієць. – Електрон. текст. дані (1 файл). – Київ : КПІ ім. Ігоря Сікорського, 2025. – 81 с. Доступ: <https://ela.kpi.ua/server/api/core/bitstreams/e9aa25e9-39e3-4269-a321-5ec485ebb4ee/content>

5.1. Other literature

1. Бодров, В. Г. Методологічне та інструментальне забезпечення наукових досліджень : навчальний посібник / В.Г. Бодров, Л.Л. Лазебник, С.В. Онишко, В.А. Рожко, О.А. Шевчук ; за редакцією О.А. Шевчука ; Університет державної фіскальної служби України. - Ірпінь : Університет ДФС України, 2020. 323 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000629207&local_base=KPI01
2. Браславська О. В. Організація наукових досліджень в умовах цифрової трансформації: методологічні підходи та перспективи застосування / О. В. Браславська // Перспективи та інновації науки (Серія "Педагогіка", Серія "Психологія", Серія "Медицина"). - 2025. - № 6. - С. 181-192. - Режим доступу: http://nbuv.gov.ua/UJRN/prainnsc_2025_6_17
3. Василенко Н. В. Штучний інтелект та академічна доброчесність: формування етичних норм у цифровому середовищі / Н. В. Василенко // Суспільство та національні інтереси. - 2025. - № 7. - С. 306-313. - Режим доступу: http://nbuv.gov.ua/UJRN/scntint_2025_7_26
4. Вихрущ, В. О. Методологія та методика наукового дослідження : підручник / В.О. Вихрущ, Ю.М. Козловський ; Міністерство освіти і науки України, Національний університет "Львівська політехніка". - Львів : Видавництво Львівської політехніки, 2020. - 335 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000634076&local_base=KPI01
5. Гальків, Л. І. Організування і проведення наукових досліджень: 1001 тест для магістрів : спецкурс для спеціальностей 051 "Економіка", 073 "Менеджмент" : навчальний посібник / Л.І. Гальків, О.Б. Мрихіна ; Міністерство освіти і науки України, Національний університет "Львівська політехніка". - Львів : Растр-7, 2021. - 197 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000635630&local_base=KPI01
6. Етичний кодекс ученого України. URL: <http://www.inem.lviv.ua/wp-content/uploads/2013/03/ekuu.pdf>.
7. Калита Н. І. Академічна доброчесність в сучасному освітньому просторі / Н. І. Калита // Перспективи та інновації науки (Серія "Педагогіка", Серія "Психологія", Серія "Медицина"). - 2025. - № 7. - С. 416-422. - Режим доступу: http://nbuv.gov.ua/UJRN/prainnsc_2025_7_37
8. Кодекс професійної етики соціолога. URL: <https://sau.in.ua/pro-sau>.
9. Комплексні вимірювальні інструменти в соціологічних дослідженнях: розроблення, адаптація, обґрунтування достовірності [Є. Головаха, С. Дембіцький, Н. Паніна та ін.]; за наук. ред. Є. Головахи та С. Дембіцького. Київ. Інститут соціології НАН України. 2022. 405 с.
10. Конверський, А. Є. Критичне мислення : підручник для студентів навчальних закладів вищої освіти усіх спеціальностей / А.Є. Конверський ; Міністерство освіти і науки України ; Київський національний університет імені Тараса Шевченка. - Київ : Центр учбової літератури, 2022. - 362 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000642398&local_base=KPI01
11. Костін, Ю. Д. Теорія і методологія наукових досліджень : навчальний посібник для студентів (магістрів) усіх форм навчання / Ю.Д. Костін, Т.В. Полозова, І.А. Шейко, Д.Ю. Костін ;

- Міністерство освіти і науки України, Харківський національний університет радіоелектроніки. - Харків : ХНУРЕ, 2021. - 152 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000634072&local_base=KPI01
12. Лагодієнко В. В. Вибір методології наукового дослідження / В. В. Лагодієнко, Л. В. Іванченкова, О. В. Лагодієнко // Держава та регіони. Серія : Економіка та підприємництво. - 2022. - № 3. - С. 4-9. - Режим доступу: http://nbuv.gov.ua/UJRN/drep_2022_3_3
 13. Литвинов А. С. Використання штучного інтелекту в освіті та наукових дослідженнях здобувачів вищої освіти / А. С. Литвинов // Перспективи та інновації науки (Серія "Педагогіка", Серія "Психологія", Серія "Медицина"). - 2025. - № 1. - С. 651-663. - Режим доступу: http://nbuv.gov.ua/UJRN/prainnsc_2025_1_58
 14. Медвідь, В. Ю. Методологія та організація наукових досліджень (у структурно-логічних схемах і таблицях) : навчальний посібник / В.Ю. Медвідь, Ю.І. Данько, І.І. Коблянська. - Суми : Університетська книга, 2020. - 218 с.
https://opac.kpi.ua/F/?func=direct&doc_number=000629382&local_base=KPI01
 15. Новікова Н. Методологія як теоретична модель наукового дослідження / Н. Новікова // European scientific journal of economic and financial innovation. - 2025. - № 2. - С. 414-420. - Режим доступу: http://nbuv.gov.ua/UJRN/esjefi_2025_2_40
 16. Пиголенко І. В., Єнін М. Н. Програма соціологічного дослідження // Велика українська енциклопедія. URL: [https://vue.gov.ua/Програма соціологічного дослідження](https://vue.gov.ua/Програма_соціологічного_дослідження) (дата звернення: 1.05.2025).
 17. Х'юмер М. Знання. Реальність. Цінність: Вступ до аналітичної філософії майже для всіх / пер. з англ. Бистрицький М.Є. Київ : Наш Формат, 2024. 404 с.
 18. Хейбер, Джонатан. Критичне мислення / Джонатан Хейбер ; переклала з англійської Олександра Бойченко ; ілюстрації Віктора Кудіна. - Київ : Видавництво "ArtHuss", 2023. - 198 с. https://opac.kpi.ua/F/?func=direct&doc_number=000646981&local_base=KPI01
 19. Шинкарук О. В. Академічна доброчесність як складова академічної культури учасників освітнього і наукового процесу / О. В. Шинкарук // Humanitarian studios: pedagogics, psychology, philosophy . - 2023. - Vol. 14, no. 2. - С. 107-114. - Режим доступу: http://nbuv.gov.ua/UJRN/hst_2023_14_2_15
 20. Шульський М. Г. Суть методологічних підходів у науковому дослідженні / М. Г. Шульський // Наукові записки [Української академії друкарства]. - 2024. - № 1. - С. 269–283. - Режим доступу: http://nbuv.gov.ua/UJRN/Nz_2024_1_28

All of the above sources are available on the Internet or on the discipline page, as well as in the methodological office of the Department of Sociology (room 503, building 7). Required reading fragments will be indicated during the passage of the relevant topics..

Educational content

5. Methodology for mastering the academic discipline (educational component)

Lectures using informative-receptive methods, heuristic conversations, elements of educational discussion, elements of problem-based presentation of the material.

Multimedia equipment, a computer are used in classes. During distance learning, Zoom and/or Google Meet video conferencing services, the educational web service Google Classroom on the Sikorsky platform, messengers for communication with students, and the university software of the information and communication system "Electronic Campus" are used.

No	Name of the subject of the lesson and list of main questions
1	<p>Topic 1. Concept, structure and types of scientific research.</p> <p>The concept of scientific research. Basic principles of research work. The importance of the researcher's personal motivation for writing a high-quality scientific paper. The social significance of research activities for society as a whole. The practical value of skills acquired as a result of independent scientific work for the activities of a sociologist.</p> <p>Tasks for the SRS:</p>

	Find an article on the topic of your master's thesis in a scientific sociological journal. Analyze an example of a scientific publication and determine its type of research.
2	<p>Topic 2. The problem of truth and the structure of scientific knowledge. The concept of truth. Functions of truth in scientific knowledge. The problem of the existence of truth. Objectivism and relativism. Scientific truth and the problem of finding its criteria. Rational principles of truth. Verification and falsification. Practice as a criterion of truth. Forms of truth. Truth and error. Dialectics of the development of scientific knowledge. Sensual knowledge and its elements. Rational knowledge and its forms: a) concept as the main form of rational knowledge; b) judgments and inferences; c) the role of categories in the functioning and development of rational knowledge, thinking, consciousness. The unity of the sensual and rational in knowledge. Types of rationality in modern culture.</p> <p>Tasks for the SRS: Find an article on the topic of your master's thesis in a scientific sociological journal. The article should contain the results of theoretical and applied research. Determine the essence of the scientific problem, object and subject, goal and objectives of the research, hypotheses, and operational definitions of basic concepts.</p>
3	<p>Topic 3. The concept of "knowledge" and approaches to its analysis</p> <p>Approaches to the analysis of the concept of "knowledge" (traditional method of analysis, contestability theory, Gettier's approach, without false assumptions, reliability, proper functioning, traceability, contestability). Failure of analysis. Locke's theory of concepts. Wittgenstein's approach to concepts.</p> <p>Tasks for the SRS: Make a scheme for the classification of knowledge. Compare the concepts of "knowledge" and "information".</p>
4	<p>Topic 4. General scientific methods: classification.</p> <p>Concepts and criteria for classifying general scientific methods. Theoretical and empirical research methods. General scientific theoretical methods of scientific research. Systemic method. Historical method. Method of analysis and synthesis. Method of deduction and induction. Theoretical methods specific to the study of social phenomena.</p> <p>Tasks for the SRS: Think within which (possibly, which) sociological paradigm you plan to conduct scientific research that will form the basis of your master's thesis. Justify your choice.</p>
5	<p>Topic 5. Choosing a topic for scientific research and determining its relevance.</p> <p>Types of student scientific works. Recommended topics, topics of free choice of students. Criteria for choosing a topic. Personal interest of the student, benefit for future professional activity. Presence of a problem (unresolved issues, unsettled relations, conflicts of law, etc.). Social importance of the chosen topic. Degree of scientific development, availability of literature. Level of familiarity of the student with the topic. Reality of conducting research according to the schedule of scientific works.</p> <p>Tasks for the SRS: Describe the relevance of the topic of your master's thesis. Make references to relevant previous research, statistical material, sociological observations and other facts. Explain what social problem your research is aimed at solving.</p>
6	<p>Topic 6. Use of artificial intelligence (AI) in scientific research</p> <p>Retrospective analysis (search for sources, their brief description, systematization) on a specific issue. Generating ideas (for choosing potential directions, methods, techniques, methodology, research tools, etc.). Searching for prototypes and/or analogues for inventions (for example, for patents). Searching for necessary statistical data, analyzing data and identifying patterns (in particular, connections) in BigData. Analysis (expertise, criticism) of novelty / similarity / differences / limitations of scientific results (propositions, hypotheses, concepts, models). Analysis and/or modeling of risks / reliability / safety of the use of inventions. Automation of routine tasks to increase the productivity of scientists, improve the quality of scientific publications</p> <p>Assignments for the SRS:</p>

	Form a prompt (prompt-engineering) on your master's thesis topic. Compare the AI results with your own developments.
7	<p>Topic 7. Writing a master's thesis: stages of preparation. Stages of work on a master's thesis. The role of planning in the process of writing a master's thesis. Choosing a topic for a master's thesis. Collecting material. Requirements for drawing up a detailed work plan. Taking notes. Features of working on the applied section of a master's thesis. Designing a master's thesis. Review and requirements for writing it. Report, types and requirements for preparation.</p> <p>Tasks for the SRS: Develop a detailed calendar plan for working on a master's thesis. Explain each point of the plan.</p>
8	<p>Topic 8. Principles of working with sources.</p> <p>The quality of scientific sources used by students when writing papers. Monographs, articles in scientific journals, textbooks, articles in sociological publications of general practical orientation, results of sociological surveys and research, reports at conferences, news and press releases. Concepts and types of plagiarism. Ethics of a scientist. Determining the quality of Ukrainian sources: a list of officially approved professional publications, websites of individual journals. Determining the quality of foreign sources: a rating of English-language publications. Stages of working with literature. Search; systematization and storage of information; note-taking; preparation of bibliography. Databases of full-text materials. Liga-Zakon database, scientific electronic library of periodicals of the V. Vernadsky Library, electronic catalogs of other libraries, Internet search using GOOGLE SCHOLAR. Systems for storing and taking notes on information using Word, OneNote, EverNote programs. Rules for formatting references and bibliographic lists and their use in student scientific work.</p> <p>Tasks for the SRS: Get acquainted with one of the examples of an innovative project for collecting and analyzing sociological information. Find an Internet resource with which you can create web questionnaires. Get acquainted with its capabilities and limitations. Choose one study on the website of the National Bank of Sociological Data "Kyiv Archive", close in topic to your master's thesis. Download the array and methodological documentation. Get acquainted with the topic and variables of the selected study. Formulate several explanatory (causal) hypotheses and verify them using SPSS.</p>
9	<p>Topic 9. Generalization of the results of scientific research and forms of its approval</p> <p>The concept of a scientific publication and its main types. Monograph and the algorithm for its writing, the differences between a dissertation and a monograph. Scientific article, requirements for its design. Abstracts, their structure. Abstract: structure and algorithm for its preparation. Review and requirements for its writing. Report, types and requirements for preparation. Oral presentation of information: features of preparation for the public defense of a master's thesis.</p> <p>Tasks for the SRS: Find an English-language publication on the topic of your master's thesis in a foreign scientific journal. Write a summary of the article in 250 words. Prepare a short (5-10 minutes) oral report with a presentation of the main provisions of the article and critical analysis.</p>

Seminar (practical) classes

The main tasks of the seminar series are to form knowledge, skills and experience in choosing a topic for scientific research, justifying its novelty and relevance; determining the object, subject, goal and objectives of the research; developing the structure of scientific work; presenting and formalizing the results of the research.

Didactic methods are used, observation and comparison, generalization and abstraction, analogy, induction, deduction, analysis and synthesis, analytical-synthetic, abstract-deductive, concrete-inductive, explanatory-illustrative, reproductive, partially-search, research.

No	Name of the subject of the lesson and list of main questions
	Seminar class 1.

1	<p>Topic 1. Concept, structure and types of scientific research.</p> <p>The concept of scientific research. Basic principles of research work. The importance of the researcher's personal motivation for writing a high-quality scientific paper. The social significance of research activities for society as a whole. The practical value of skills acquired as a result of independent scientific work for the activities of a sociologist. Foreign experience in teaching the basics of scientific research and critical thinking. The task of improving the level of domestic scientific research.</p> <ol style="list-style-type: none"> 1. What is scientific research and what are its main features? 2. What structural elements does scientific research have? 3. What is the difference between fundamental and applied research? 4. How are scientific research classified according to methodological features? 5. What is the role of empirical and theoretical components in research? <p>Find an article on the topic of your master's thesis in a scientific sociological journal. Analyze an example of a scientific publication and determine its type of research.</p> <p>Task for the SRS: Analyze an example of a scientific publication and determine its type of research.</p>
	<p>Seminar class 2.</p>
2	<p>Topic 2. The problem of truth and the structure of scientific knowledge.</p> <ol style="list-style-type: none"> 1. What is scientific truth? 2. Functions of truth in scientific knowledge? 3. Forms of truth? 4. What stages of scientific knowledge are distinguished in the philosophy of science? 5. How do verification and falsification affect the knowledge of truth? <p>Tasks for the SRS: Find an article on the topic of your master's thesis in a scientific sociological journal. The article should contain the results of theoretical and applied research. Determine the essence of the scientific problem, object and subject, goal and objectives of the research, hypotheses and operational definitions of the main concepts.</p>
	<p>Seminar class 3.</p>
3	<p>Topic 3. The concept of "knowledge" and approaches to its analysis</p> <ol style="list-style-type: none"> 1. How do philosophy and sociology interpret the concept of knowledge? 2. What types of knowledge exist? 3. What is the difference between intuitive, practical and scientific knowledge? 4. What are the modern approaches to the analysis of knowledge? 5. What role does knowledge play in the formation of scientific discourse? <p>Tasks for the SRS: Make a scheme for the classification of knowledge. Compare the concepts of "knowledge" and "information".</p>
	<p>Seminar class 4.</p>
4	<p>Topic 4. General scientific methods: classification.</p> <ol style="list-style-type: none"> 1. What are the classifications of general scientific methods? 2. What is the difference between empirical and theoretical methods? 3. How do induction and deduction work in scientific research? 4. What is the essence of the methods of analysis and synthesis? 5. How is the systemic approach used in the social sciences? <p>Task for the SRS: Think within which (possibly, which) sociological paradigm you plan to conduct scientific research that will form the basis of your master's thesis. Justify your choice.</p>
	<p>Seminar class 5.</p>
5	<p>Topic 5. Choosing a topic for scientific research and determining its relevance.</p> <ol style="list-style-type: none"> 1. What are the criteria for choosing a topic for scientific research? 2. What is relevance and how to justify it? 3. How is the topic related to the scientific direction of training? 4. What mistakes are made when choosing a topic? 5. How to assess the novelty and practical significance of the topic?

	<p>Tasks for the SRS: Describe the relevance of the topic of your master's thesis. Make references to relevant previous studies, statistical material, sociological observations and other facts. Explain what social problem your research is aimed at solving.</p>
	Seminar class 6.
6	<p>Topic 6. Using Artificial Intelligence (AI) in Scientific Research</p> <ol style="list-style-type: none"> 1. What are the main areas of use of AI in scientific research? 2. How can AI help in processing and analyzing large amounts of data? 3. What examples of AI application in social, humanities, and natural sciences do you know? 4. What are the risks of using AI to generate texts or ideas in research (ethical, methodological, academic)? 5. How can AI tools (e.g. ChatGPT, Elicit, Semantic Scholar AI) be used in the preparation of a master's thesis? <p>Tasks for the SRS: Form a prompt (prompt-engineering) on the topic of your master's thesis. Compare the results of AI with your own work.</p>
7	<p>Topic 7. Writing a Master's Thesis: Stages of Preparation.</p> <ol style="list-style-type: none"> 1. What are the main stages of preparing a dissertation? 2. How long does each stage usually take? 3. How to plan work on a dissertation effectively? 4. What difficulties arise at different stages? 5. What role does a calendar play in writing a paper? <p>Tasks for the SRS: Think about the structure of your master's thesis. Could the material be structured differently? Why?</p>
	Seminar class 7.
8	<p>Topic 8. Principles of working with sources.</p> <ol style="list-style-type: none"> 1. What sources are used in a master's thesis? 2. How is the search, selection and critical analysis of literature carried out? 3. What is a bibliographical reference and how to format it? 4. How to format citations in accordance with the requirements of academic writing? 5. What services and resources help organize sources? <p>Tasks for the SRS: Get acquainted with one of the examples of an innovative project for collecting and analyzing sociological information. Find an Internet resource with which you can create web questionnaires. Get acquainted with its capabilities and limitations. Select one study on the website of the National Bank of Sociological Data "Kyiv Archive", download the array and methodological documentation. Get acquainted with the topic and variables of the selected study.</p>
	Seminar class 8.
9	<p>Topic 9. Generalization of the results of scientific research and forms of its approval</p> <ol style="list-style-type: none"> 1. The concept of a scientific publication and its main types. 2. Scientific article, requirements for its design. 3. Abstracts of the report, their structure. 4. Abstract: structure and algorithm for its preparation. 5. Review and requirements for its writing. 6. Report, types and requirements for preparation. <p>Tasks for the SRS: Find an English-language publication on the topic of your master's thesis in a foreign scientific journal. Write a summary of the article in 250 words. Prepare a short (5-10 minutes) oral report with a presentation of the main provisions of the article and a critical analysis.</p>
	Seminar class 9. Modular test work

6. Independent work of student

Students independently work on the following questions:

Topic 1. Concept, structure and types of scientific research.

Main questions:

Compare the table "Comparison of three paradigms of sociological research: quantitative, interpretative, critical".

Topic 2. The problem of truth and the structure of scientific knowledge. Methodology of scientific research.

Main questions:

Find an article in a scientific sociological journal that presents the results of theoretical and applied research. Determine the essence of the scientific problem, object and subject, goal and objectives of the study, hypotheses and operational definitions of basic concepts.

Topic 3. The concept of "knowledge" and approaches to its analysis

Main questions:

Make a scheme for classifying knowledge. Compare the concepts of "knowledge" and "information".

Topic 4. General scientific methods: classification.

Key questions:

Think within which (possibly, which) sociological paradigms you plan to conduct scientific research that will form the basis of your master's thesis. Justify your choice.

Topic 5. Choosing a topic for scientific research and determining its relevance.

Key questions:

Describe the relevance of the topic of your master's thesis. Make references to relevant previous research, statistical material, sociological observations and other facts. Explain what social problem your research is aimed at solving.

Topic 6. Using artificial intelligence (AI) in scientific research

Key questions:

Formulate a prompt-engineering for your master's thesis topic. Compare the results of AI with your own work.

Topic 7. Writing a master's thesis: stages of preparation.

Key questions:

Think about the structure of your master's thesis. Make an extended work plan. Explain the logic behind the structuring of your dissertation. Could the material be structured differently? Why? Develop a detailed calendar plan for working on your master's dissertation. Explain each point of the plan.

Topic 8. Principles of working with sources.

Key questions:

Get acquainted with one of the examples of an innovative project for collecting and analyzing sociological information.

Find an Internet resource that can be used to create web questionnaires. Get acquainted with its capabilities and limitations.

Select one study on the website of the National Bank of Sociological Data "Kyiv Archive", download the array and methodological documentation. Get acquainted with the topic and variables of the selected study.

Topic 9. Generalization of the results of scientific research and the form of its testing Key questions:

Find an English-language publication on the topic of your master's dissertation in a foreign scientific journal. Write a summary of the article in 250 words. Prepare a short (5-10 minute) oral presentation outlining the main points of the article and providing a critical analysis.

Policy and Control

7. Discipline Policy (Educational Component)

Attendance at classes and completion of assignments

Attendance at lectures is desirable.

Attendance at practical (seminar) classes is mandatory. Missed practical (seminar) classes should be completed independently and worked out during consultations.

The student's rating will be largely formed by the results of his work in practical (seminar) classes. Each missed practical class (regardless of the reasons for the absence) reduces the student's final rating in the discipline. A student who missed practical classes may receive a low rating, which will not allow such a student to be admitted to the exam. In this case, the topics from the missed seminar classes must be studied, and the practical assignments must be completed by the student. The student's knowledge (understanding) of the missed topics (completion of assignments) will be checked during communication with the teacher according to the consultation schedule available on the website of the Department of Sociology, or during a break in the lesson ("on par"). A student who completes the relevant tasks (answers the questions) will receive the corresponding points for the rating depending on the quality of the answers (task completion).

Forms of work

Lectures on the discipline "Research work on the topic of a master's thesis" highlight key issues of organizing and conducting scientific research in the context of preparing a master's thesis. The main concepts, structure and types of scientific research, the problem of truth and the structure of scientific knowledge are considered. During the lectures, theoretical general scientific methods, basic principles of working with sources, as well as criteria for choosing a research topic and determining its relevance are analyzed. Special attention is paid to the requirements for the structure and design of a master's thesis, the technological principles of its writing and the generalization of results. The teacher will provide students with a holistic overview of the process of scientific work, focusing on the practical aspects of writing a thesis, requirements for structure and design, methodological approaches and forms of research approval. Lectures contain practical advice on organizing research, analyzing sources, and presenting results in the form of scientific publications, reports, and conferences.

Students are expected to be able to apply theoretical principles in practice. Practical classes will discuss problematic aspects of organizing and conducting scientific research, methodological approaches, and requirements for writing a master's thesis. Practical classes are aimed at developing skills in scientific work, including working with scientific sources, analyzing and systematizing information, formulating research questions and hypotheses, and choosing an appropriate research methodology. Special attention is paid to the design of scientific texts, observing academic integrity, and the correct use of citations and references. During classes, the teacher will summarize and analyze typical errors in the preparation of master's research, provide recommendations for their elimination, and answer students' questions. Students will have the opportunity to work with individual and group tasks, discuss their own research, and comment on and analyze the work of their classmates.

Rules of conduct in classes

During classes, it is recommended to turn off phones in order to achieve a higher level of attention and focus on educational activities. At the same time, on the recommendation of the teacher, you can use communication tools to search for information on the discipline's Google Drive or on the Internet.

During classes - both seminars and lectures, students are expected to be active, participate in discussing issues, complete practical tasks, exercises and tasks, ask questions, contribute to collective discussions, etc.

During answers in practical classes, you should not read from a smartphone, tablet or laptop. It is worth using notes made by the student, summaries of the read educational material and data analysis conducted independently at home or in pairs.

Правила призначення заохочувальних балів

Incentive points	
Criterion	Weighted score
Participation in a conference /	5 / 10 points
publication of abstracts	10 points
Participation in the 2nd round of the All-Ukrainian Student Olympiad	10 points
Publication of a scientific article	10-15 points

University policy

Academic integrity

The policy and principles of academic integrity are defined in Chapter 3 of the Code of Honor of the National Technical University of Ukraine "Ihor Sikorsky Kyiv Polytechnic Institute". More details: <https://kpi.ua/code>. (other necessary information regarding academic integrity)

Norms of ethical behavior

Standards of ethical behavior of students and employees are defined in Chapter 2 of the Code of Honor of the National Technical University of Ukraine "Ihor Sikorskyi Kyiv Polytechnic Institute". More details: <https://kpi.ua/code>.

8. Types of control and rating system for evaluating learning outcomes (RSE)

The table below lists all types of controls and the scores for each control element..

№ з/п	Assessment control measure	%	Weighted score	Number	Total
1.	Speech at seminar (practical) classes, completion of written assignments with placement in the Classroom	40	5	8	40

2.	Presentation of one's own scientific research as part of writing a master's thesis	30	30	1	30
3.	Modular control work (MCR)	30	30	1	30
	Total				100

Calendar control

Conducted twice a semester as a monitoring of the current status of the implementation of the syllabus requirements. Intermediate certification of students (hereinafter referred to as certification) is a calendar milestone control. The purpose of the certification is to improve the quality of student learning and monitor the implementation of the educational process schedule by students.

At the first intermediate certification, the student receives a “pass” if his current rating at the time of certification is 20 or more points. At the second intermediate certification, the student receives a “pass” if his current rating at the time of certification is 40 or more points. If this indicator does not meet the requirements, “not certified” is displayed. The “not certified” is worked out in consultations with the teacher by answering orally to questions about the material not learned by students and completing missed practical work.

Semester control: credit

Conditions for admission to the semester control (credit) are the availability of at least 40 points per semester.

Table of correspondence of rating points to grades on the university scale:

Scores	Grade
100-95	Excellent
94-85	Very good
84-75	Good
74-65	Satisfactorily
64-60	Enough
Less than 60	Unsatisfactory
Requirements of certification are not met	Not certified

9. Additional information on the discipline (educational component)

List of questions submitted for semester control (credit):

1. Requirements for the design of master's theses. Requirements for the content of structural elements of the work.
2. Abstract, the concept of an abstract and requirements for it.
3. Requirements for admission of master's theses to defense.
4. Defense of a master's thesis. Criteria for evaluating master's theses.
5. The concept of scientific research. Basic principles of research work.
6. The importance of the researcher's personal motivation for writing a high-quality scientific work.
7. The social significance of research activities for society as a whole.
8. The quality of scientific sources.
9. The concept and types of plagiarism.
10. Ethics of a scientist.
11. Determining the quality of Ukrainian sources: a list of professional publications, websites of individual journals. Determining the quality of foreign sources: rating of English-language publications.
12. Stages of working with literature. Search; systematization and storage of information; note-taking; bibliography design.

13. Theoretical and empirical research methods.
14. The concept of truth. Functions of truth in scientific knowledge.
15. Rational principles of truth. Verification and falsification.
16. Unity of the sensual and rational in knowledge.
17. Determining the object, subject, goal and objectives of scientific research.
18. Formulation of a scientific question, its connection with the social problem, the solution of which the research is aimed at.
19. Components of scientific work. Introduction, main part, conclusions.
20. Developing the structure of scientific work using the MindMap computer program.
21. Correspondence of the structural elements of the main part and conclusions to the goals and objectives of the scientific work.
22. Writing proposals for a research project.
23. Substantiation of the relevance of the chosen topic.
24. The problem to which the research is aimed, the social significance of this problem.

Informal distance and online courses

There is a possibility of crediting certificates of completion of distance or online courses on the relevant topic. In particular, it is recommended to study the online course "Sociology and Social Research: What, How, Why?" (SOC101) (https://courses.prometheus.org.ua/courses/IRF/SOC101/2015_T1/about). It is possible to use other massive open online courses (in whole or in part) provided that their topic and content are agreed with the lecturer.

Inclusive learning

Allowed

The working program of the academic discipline (syllabus):

Compiled by Igor Pygolenko, PhD, Associate Professor, Associate Professor of the Sociology Department.

Approved by the Sociology Department (protocol № 14 from 23.06.2025).

Approved by the Methodical Commission of the faculty (protocol № 4 from 24.06.2025).

RATING SYSTEM FOR ASSESSING LEARNING RESULTS

The RSE of the credit module "Research work on the topic of the master's thesis" provides for the assessment of students' work in the following types of work:

- 1) Speeches at seminar (practical) classes, performance of written tasks with placement in the Classroom (G sem)
- 2) Presentation of one's own scientific research within the framework of writing a master's thesis (G prz)
- 3) Modular test work (G mkr)

1. Calculation of weighted points

The RSE for the discipline consists of the sum of the student's points for the completed control measures during the semester (RD)

$$RD = G_{sem} + G_{prz} + G_{mkr} = 100 \text{ points}$$

1) Speeches at seminar (practical) classes, performance of written tasks with placement in the Classroom (G sem).

Weighted score – 5 points for the correct answer (supplement to the answer) or a written assignment posted in the Classroom. The maximum number of points for activity in seminar classes is

$$G_{sem} = 5 \text{ points} * 8 \text{ od.} = 40 \text{ points}$$

When answering each question, the student receives:

- "excellent", a complete answer (at least 90% of the required information, if the answer demonstrates deep knowledge of the material, logically and consistently presents it, gives substantiated conclusions, freely operates with specific data, easily and convincingly answers the questions posed; active participation in the lesson - 3 points;

- "very good" and "good", a sufficiently complete answer (at least 75% of the required information), or a complete answer with minor inaccuracies, answers most of the questions posed - 2 points;

- "satisfactory" and "sufficient", an incomplete answer (at least 60% of the required information) and significant errors, answers the questions posed poorly or does not answer at all, complements the answers of other students - 1 point.

- "unsatisfactory", no work at the seminar, the student was not ready to answer the question posed - 0 points.

2) Presentation of one's own scientific research within the framework writing a master's thesis (G prz).

Weighted score - 30 points.

"excellent" - 28-30 points

"very good" - 25-27 points

"good" - 20-24 points

"satisfactory" - 18-19 points

"sufficient" - 16-17 points

Fx (admission to take the final test) - 15 points

If the student receives less than 15 points, the presentation work is not credited.

Assessment criteria:

The work is assessed according to the completeness of the task, the correctness of the description of the results, theoretical and factual saturation, and the depth of analysis.

3) Modular test work (MKR)

Weighted score - 30 points.

"excellent" - 28-30 points

"very good" - 25-27 points

"good" - 20-24 points

"satisfactory" - 18-19 points

"sufficient" - 16-17 points

Fx (admission to take the final test) - 15 points

If the student receives less than 15 points, the MCR is not credited.

Assessment criteria:

The work is assessed according to the completeness of the task, the correctness of the description of the results, theoretical and factual saturation, depth of analysis.

Incentive points

For participation in scientific and practical conferences held at the FSP or in other educational and research institutions, for publishing an abstract or scientific article, taking informal distance or online courses, translating scientific publications and other types of work, the student receives additional points.

Conditions for admission to semester control:

The condition for admission of a student to the test is to obtain a preliminary rating score of at least 40 points. Students who have scored less than 40 points during the semester are not allowed to take the test.

Students who have scored 60 or more points during the semester may receive a semester grade "automatically" with the student's consent, without additional questioning.

Students who have scored less than 60 points during the semester, but more than 40 points (40 points < RD < 60 points), or who wish to increase their rating score, perform a test.

To receive "passed" from the first calendar control, the student must have at least 20 points, to receive "passed" from the second calendar control, the student must have at least 40 points.

4) Test.

Weighted score – 100.

The test takes the form of a list of questions that the student must answer. The questions are different in content, correspond to the topics of lectures, seminars, independent work, self-control questions.

Assessment criteria

95-100 points - the student demonstrates a deep knowledge of the content of the educational material, the ability to systematically and interdisciplinary analysis of the problems of the course; freely and correctly uses scientific concepts and terms, formulates logical, reasoned conclusions, expresses his own well-founded position on discussion issues;

85-94 points - the student demonstrates a very good level of assimilation of the educational material, is well-oriented in the main topics of the course, is capable of analysis and generalization; there may be isolated inaccuracies in formulations or examples that do not significantly affect the overall level of the answer;

75-84 points - the student demonstrates a fairly complete understanding of the main topics and issues of the course. Uses basic scientific terminology, however, the analysis is mainly descriptive; conclusions are formulated, but not always sufficiently reasoned;

65-74 points - the student demonstrates a general understanding of the course material, but the answers contain noticeable inaccuracies in definitions, examples or logic of presentation; the use of scientific terminology is limited, the analytical component is weakly expressed;

60-64 points - the student demonstrates fragmentary knowledge of individual course topics, is oriented only in some key concepts; the answers are incomplete, superficial, the conclusions are not sufficiently substantiated or are absent;

0-59 points - the student is not oriented in key concepts and issues of the course, demonstrates superficial or chaotic knowledge; there is no analytical thinking and the ability to apply the knowledge gained; the answers are illogical or incomplete.

The conversion of the value of rating grades into ECTS and traditional grades for displaying them in the credit report and credit book is carried out in accordance with the table.

Table

Total points for all types of learning activities	Traditional assessment
95 - 100	Excellent
85 - 94	Very good
75 - 84	Good
65 - 74	Satisfactorily
60 - 64	Enough
Less than 60	Unsatisfactory