



Completion of 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, 4 semester
ECTS	16,0 credits
Form of Control	Defence
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	https://do.ipk.kpi.ua/course/view.php?id=8365

Curriculum of the discipline

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

Master's thesis is a type of qualification work of a master's degree applicant, designed to objectively monitor the degree of formation of research and innovation competencies for conducting research and/or implementing innovative activities in order to develop new knowledge and solve problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility. The purpose of the academic discipline is to form the following competencies in students:

General competencies:

ЗК 02 - Ability to work autonomously.

Professional competencies:

ФК 03 - Ability to design and conduct sociological surveys, develop and justify their methodology.

ФК 04 - Ability to collect and analyze empirical data using modern methods of sociological surveys.

ФК 06 - Ability to adhere to the norms of professional ethics of a sociologist and to be guided by universal values.

Згідно з вимогами освітньо-наукової програми студенти після засвоєння навчальної дисципліни мають продемонструвати такі результати навчання:

Programme learning outcomes

ПРН 04 - Apply scientific knowledge, sociological and statistical methods, digital technologies, specialized software to solve complex problems of sociology and related fields of knowledge

ПРН 05 - Search, analyze and evaluate the necessary information in the scientific literature, data banks and other sources.

ПРН 07 - Solve ethical dilemmas in accordance with the norms of professional ethics of the sociologist and universal human values.

ПРН 09 - To plan and conduct research in the sphere of sociology, to analyze the results, to defend the conclusions.

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

The basis for studying the discipline "Master's Thesis" are the disciplines "Research Practice", "Research Work on the Topic of the Master's Thesis", "Leadership and Anti-Crisis Management", "Practical Course of a Foreign Language for Scientific Communication", "Introduction to Analytical Sociology", "Methodology and Methods of Sociological Research in the Digital Age", "Computer Analysis of Social Information and Data Visualization", "Theories of Social Behavior in Modern Sociology", "Methods of Multidimensional Analysis in Sociology", "OSINT Technologies in Sociological Research", "Foresight Methodology in the Analysis and Modeling of Social Processes", "Programming Languages R and Python in Statistical Computing", "Big Data Analysis and Artificial Intelligence". The discipline "Completion of a Master's Thesis" is the last in the structural and logical scheme of study for this educational program.

3. Content of the academic discipline

The organizational process of completing a master's thesis consists of the following stages:

- preparatory, which begins with the student choosing a topic and receiving an individual assignment from the supervisor (scientific supervisor) on issues that need to be resolved during the internship on the selected topic, includes mastering the internship program and ends with the preparation and defense of a report on its completion;
- main, which begins immediately after the defense of the internship report and ends approximately two weeks before the defense of master's theses at a meeting of the examination committee. At this stage, the master's thesis must be fully completed, checked by the supervisor (scientific supervisor) and consultants;
- final, which includes receiving the supervisor's feedback and reviews. Completed master's theses with the supervisor's feedback are submitted by students to the graduation department no later than one week before the defense at the examination committee.

4. Training materials and resources

a. Basic literature:

1. Положення про організацію освітнього процесу в КПІ ім. Ігоря Сікорського <http://osvita.kpi.ua/node/39>
2. Положення про екзаменаційну комісію та атестацію здобувачів вищої освіти в КПІ ім. Ігоря Сікорського <http://osvita.kpi.ua/node/35>
3. Положення про систему оцінювання результатів навчання в КПІ ім. Ігоря Сікорського <https://osvita.kpi.ua/node/37>

a. Other literature

1. Етичний кодекс ученого України. URL: <http://www.inem.lviv.ua/wp-content/uploads/2013/03/eku.pdf>.

2. 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
3. Кодекс професійної етики соціолога. URL: <https://sau.in.ua/pro-sau>.
4. 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. – 81с. Доступ: <https://ela.kpi.ua/server/api/core/bitstreams/e9aa25e9-39e3-4269-a321-5ec485ebb4ee/content>
5. <http://www.nbuv.gov.ua> – Національна бібліотека України імені В.І. Вернадського.
6. <https://prometheus.org.ua/> Найкращі онлайн-курси України та світу.

Educational content

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

The supervisor (scientific supervisor) prepares the assignment for the master's thesis in the appropriate form and issues it to the applicant before the start of the internship preceding the completion of the master's thesis. In addition to the assignment for the master's thesis, applicants receive recommendations from the supervisor (scientific supervisor) for the selection and processing of materials during the internship preceding the completion of the master's thesis. The supervisor (scientific supervisor) and the master's thesis consultants conduct consultations with applicants according to the approved schedule of consultations on issues related to the completion of the master's thesis. In accordance with the assignment for the master's thesis, the supervisor (scientific supervisor) and the master's thesis consultants provide the applicant with recommendations on the content of the sections of the master's thesis, the features and requirements for completing individual questions of the assignment, the processing of the necessary literature, regulatory and reference materials, scientific publications, etc. The consultant informs the supervisor (scientific supervisor) of the master's thesis about the status of the chapter, the applicant's perseverance and independence in working on the chapter, his attitude towards implementing the recommendations and taking into account the consultant's comments.

6. Independent work of student

The supervisor (scientific supervisor) and the master's thesis consultants recommend methods for solving the master's thesis task, leaving the applicant the right to make the final decision independently. When completing the master's thesis, the applicant must adhere to the principles of academic integrity and independently complete the master's thesis. The applicant must regularly, at least once every two weeks, inform the supervisor (scientific supervisor) about the status of the master's thesis in accordance with the calendar plan, and provide the necessary materials for verification at his request. The applicant is responsible for the correctness of the decisions made, justifications, calculations, the quality of the design of text and graphic (illustrative) material, their compliance with the requirements for the completion of master's theses, existing regulatory documents and the educational program.

Policy and Control

7. Discipline Policy (Educational Component)

The organization and implementation of the master's thesis is regulated by the following documents:

- University order on sending students to practice and appointing practice supervisors;
- University order on approving master's thesis topics and appointing their scientific supervisors.

- The supervisor (scientific supervisor) monitors the applicant's compliance with the schedule for completing the master's thesis. In the event of significant violations that may lead to failure to meet the established deadlines for submitting the master's thesis to the examination committee, inform the department management to take appropriate measures, including a decision to prevent the applicant from defending it.
- The supervisor (scientific supervisor) supervises the applicant's completion of the master's thesis and is responsible for the presence of systemic errors in the master's thesis. In the event that the applicant fails to comply with recommendations for correcting such errors, the supervisor (scientific supervisor) notes this in his/her feedback.

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 assessing learning outcomes (RSO)

The head of the department, after reviewing the submitted materials, makes a decision on admission to the defense and puts a visa on the title page of the master's thesis. The decision of the head of the department is formalized in the relevant minutes of the department meeting.

Certification of higher education applicants in the specialty 054 Sociology is carried out in the form of defense of a qualification work - a master's thesis.

The rating evaluation system (RSO) of the master's thesis of higher education applicants of the second (master's) level who study in the educational and scientific program "Social Data Analytics" is developed on the basis of the Regulation on the system for evaluating learning outcomes at Igor Sikorsky Kyiv Polytechnic Institute.

The RSO for a master's thesis is 100 points and includes an assessment of:

- the quality of the master's thesis (70 points);
- the defense of the master's thesis (30 points).

1. Assessment of the quality of the master's thesis - 70 points

The following characteristics are subject to assessment:

1. Compliance of the content of the master's thesis with the topic and the approved plan (10 points):

- 6-10 - the content of all sections of the master's thesis corresponds to the approved plan;
- 1-5 - the content of several sections of the master's thesis corresponds to the approved plan;
- 0 - the content of none of the sections of the master's thesis corresponds to the approved plan.

2. The degree of disclosure of the theoretical aspects of the problem selected for research and the correctness of the use of the conceptual apparatus (15 points):

- 11-15 - the conceptual apparatus is formed, the theoretical aspects of the problem are disclosed;
- 6-10 - the conceptual apparatus is formed, the theoretical aspects of the problem are partially disclosed;
- 1-5 - the conceptual apparatus is formed, but the theoretical aspects of the problem are not disclosed;
- 0 – conceptual apparatus not formed; theoretical aspects of the problem not disclosed.

3. Presence of critical comparisons and generalizations of different points of view and approaches to the formulation and solution of the problem (10 points):

- 6-10 – critical comparisons are present and accompanied by correct generalizations;
- 1-5 – critical comparisons are present, but generalizations are absent or incorrect;
- 0 – critical comparisons and generalizations are absent.

4. Degree of use of factual material; coverage of the features of the manifestation and solution of the problem under study in domestic practice (10 points):

- 6-10 – factual material involved, the experience of domestic practices is covered;
- 1-5 – factual material involved, the features of the manifestation and solution of the problem in domestic practice are not covered;
- 0 – factual material not used.

5. The volume and adequacy of primary sources used in writing the work and compliance with the ethics of references (15 points):

- 11-15 - materials from monographs, statistical collections and directories, periodicals and the Internet were used, the ethics of references were observed;
- 6-10 materials from textbooks and manuals, monographs, statistical collections were used, the ethics of references were mostly observed;
- 1-5 - materials from textbooks and manuals, periodicals were used, the ethics of references were partially observed;
- 0 - materials from textbooks and manuals only (up to 10 sources) were used, the ethics of references were not observed.

6. Compliance of the master's thesis design with the established requirements (10 points):

- 6-10 - the text of the master's thesis is designed in accordance with the established requirements;
- 1-5 - the text of the master's thesis is designed with minor violations of the established requirements;
- 0 - the text of the master's thesis is designed with significant violations of the established requirements.

2. Evaluation of the defense of the master's thesis - 30 points

The following characteristics are subject to evaluation:

1. Ability to clearly, concisely, logically present the main results of the research (15 points):

- 11-15 - the master's student is able to clearly, concisely and logically present the main results of the research;
- 6-10 - the master's student is able to partially clearly and concisely present the main results of the research;
- 1-5 - the master's student presents the main results of the research in a disorganized manner;
- 0 - the master's student is unable to clearly and concisely present the main results of the research.

2. Completeness, depth, validity of answers to questions (15 points):

- 11-15 - the master's student provides complete, in-depth, substantiated answers to the questions posed;
- 6-10 - the master's student provides insufficiently complete, in-depth answers to the questions posed;
- 1-5 – the master's student provides incomplete, superficial, unsubstantiated answers to the questions posed;
- 0 – the master's student is unable to provide answers to the questions posed.

Additional points are assessed:

- practical orientation of the work (the work was performed on behalf of an enterprise, institution; the technical task for the work was approved by the customer of the research; the work was performed within the framework of an economic contract or state order topic) – plus 5 points.
- implementation of the work materials (a Ukrainian patent for an invention, industrial design, utility model or positive solution was obtained; the results of the work were implemented or accepted for implementation under relevant acts; several scientific articles were published or several reports were made at scientific conferences, there are abstracts of reports, copies of articles) – plus 5 points.

After defending the master's thesis, each member of the examination committee sums up the scores for the master's thesis quality component and the master's thesis defense component, reduces them to a rating score, and then at a closed meeting of the examination committee, the rating score is calculated, which is converted into grades on the university scale (Table 1).

Table 1 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

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 № 12 from 24.05.2024).

Approved by the Methodical Commission of the faculty (protocol № 9 from 26.06.2024).