

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**

**Lesya Ukrainka Volyn National University**

**Faculty of History, Political Science and National Security**

**Department of Political Science and Public Administration**

**SYLLABUS**

**normative academic discipline**

**LOGIC**

Bachelor's Degree Preparation

field of study - **29 International relations**

specialty - **292 International Economic Relations**

educational and professional program - **International Business**

**Syllabus of the discipline "Logic" for the preparation of bachelors in the field of study - 29 "International Relations", specialty - 292 "International Economic Relations", educational and professional program "International Business"**

**Developers:**

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Guarantor of OPP "**International Business**"



prof. A.O. Boiar

**The syllabus of the discipline was approved at a meeting of the Department of Political Science and Public Administration**

Minutes No. 2 dated September 23, 2022

Head of the Department:



prof. V. V. Buslenko



GC 1. Ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.

GC 3. Ability to learn and be up-to-date.

GC 4. Ability to plan and manage time.

GC 5. Ability to communicate in the state language both orally and in writing.

GC 8. Ability to abstract thinking, analysis, and synthesis.

GC 9. Ability to be critical and self-critical.

GC 12. Knowledge and understanding of the subject area and understanding of professional activities.

Professional competencies (FC):

FC11. Ability to conduct research on economic phenomena and processes in the international sphere, taking into account cause-and-effect and spatio-temporal relationships.

FC16. Ability to constantly improve the theoretical level of knowledge, generate and effectively use it in practice.

### Structure of the discipline

| Titles of content modules and topics  | Number of hours |           |      |       |             | Forms of control*, max. points |
|---|-----------------|-----------|------|-------|-------------|--------------------------------|
|   | Total           | including |      |       |             |                                |
|   |                 | Lect.     | Sem. | Cons. | Intep. work |                                |
| 1   | 2               | 3         | 4    | 5     | 6           |                                |
| <b>Content module 1. Introduction to Logic</b>  |                 |           |      |       |             |                                |
| <b>Topic 1.</b> Introduction to the discipline "Logic".<br>The Subject and Language of Formal Logic | 8               | 2         | 2    | 1     | 8           | DS, 5                          |
| <b>Topic 2.</b> History of logic as a science   | 12              | 4         | 2    | 1     | 10          | DS, 5                          |
| Total for Content Module 1  | 20              | 6         | 4    | 2     | 18          | -                              |
| <b>Content module 2. Traditional logic</b>  |                 |           |      |       |             |                                |
| <b>Topic 3.</b> Concept as a Form of Logical Thinking   | 8               | 2         | 2    | 1     | 8           | DS, 5                          |
| <b>Topic 4.</b> Judgment as a form of logical thinking  | 8               | 4         | 2    | 1     | 10          | DS, 5                          |
| <b>Topic 5.</b> Basic Laws of Formal Logic  | 10              | 4         | 2    | 1     | 10          | DS, 5                          |
| <b>Topic 6.</b> Inference as a Form and Means of Forming Thought and Knowledge                      | 14              | 4         | 2    | 1     | 8           | DS, 5                          |
| <b>Topic 7.</b> Proof   |                 | 4         | 2    | 1     | 8           | DS, 5                          |
| <b>Topic 8.</b> Meaning of Logic  |                 | 2         | 2    | 1     | 8           | DS, 5                          |
| Module by Module 2  | 40              | 20        | 12   | 6     | 52          | -                              |
| <b>Types of final works</b>   |                 |           |      |       |             | -                              |
| <b>Total Hours, Points</b>  | 120             | 26        | 16   | 8     | 70          | -                              |

\* DS – Discussion

### Self-study tasks

MODULE 1. Introduction to Logic

1. Cognition as a thought process.
2. Thinking as a subject of study of logic.
3. Logic as a science of the forms and laws of thought.
4. The concept of logical form.
5. The concept of a logical law.
6. The problem of truth and formal correctness (reasoning) of thinking.
7. The main historical stages of the development of logic.
8. Two conceptions of the emergence of logic in the context of culture.
9. Logic on the threshold of the third millennium.

10. Vector development of the value potential of logic as a science in the postmodern period.

#### MODULE 2. Traditional logic

1. Thinking and language. Language as a sign information system.
2. Logical analysis of language is a way of identifying logical forms and laws.
3. The concept of the language of propositional logic. The concept of the language of predicate logic.
4. The role of artificial languages of logic in clarifying the structure of thought.
5. Propositional function.
6. Judgments and sentences.
7. The role of the question in cognition.
8. The importance of judgment as a form of thinking.
9. "Logical square".
10. Logical means of checking the correctness of proof and refutation.
11. Formulas representing the structure of always true thoughts.
12. Basic Laws of Logic as Formulas of True Thoughts.
13. Laws of propositional logic.
14. Laws of predicate logic.
15. The Methodological Role of the Laws of Logic.
16. Basic rules and laws of inference, logic of statements. Deadline rules.
17. Figures of a simple categorical syllogism. Rules for the figures of the syllogism.
18. Модуси силігізму.
19. Abridged syllogism. Compound abbreviated syllogisms.
20. Analogy as a type of inference and its types.
21. Logical principles of argumentation.
22. Logical and methodological potential of scientific problems.
23. The role of logic in the development, systematization and substantiation of scientific knowledge.

#### IV. Evaluation Policy

**Attendance Policy:** Attendance at classes is a mandatory component of the assessment for which points are awarded. For objective reasons (for example, illness, international internship, participation in scientific events, etc.), training can take place during this period in online form in agreement with the teacher and the dean of the faculty.

**Academic Integrity Policy:** according to the Code of Academic Integrity of Lesya Ukrainka Vinnytsia National University (<http://surl.li/aagxg>).

#### **Deadline & Retake Policy:**

Works that are submitted in violation of the deadlines without valid reasons are evaluated with a lower grade. Retaking the topics of seminars or completing tasks for current control / modular control occurs if there are valid reasons (for example, sick leave).

Also, the student has the right to recognition of learning outcomes obtained in **formal, non-formal and/or informal education** (<https://cutt.ly/9wPgvTK1>).

#### V. Final control

A semester exam is a form of final control of the student's mastering of theoretical material and practical skills and abilities in a separate educational component (academic discipline) for a semester.

The total points for the course is 100, including:

- 40 points for participation in discussions (seminars);
- 60 points – modular control/exam.

The required minimum for completing the course is 60 points, which is formed as the sum of points for the current assessment (up to 40 points) and final assessment / assessment for modular control (up to 60 points).

If a student scores less than 75 points, or wants to improve his/her rating, the exam is mandatory and is carried out during the examination session in accordance with the approved

schedule. In this case, the final module control is not taken into account, and the results of the exam are evaluated on a scale from 0 to 60 points.

## VI. Grading scale

| Score<br>in points | Linguistic Assessment | ECTS score |                                      |
|--------------------|-----------------------|------------|--------------------------------------|
|                    |                       | Score      | Explanation                          |
| 90–100             | Perfectly             | A          | Excellent performance                |
| 82–89              | Very good             | B          | Above average                        |
| 75–81              | Well                  | C          | Overall good job                     |
| 67–74              | Satisfactory          | D          | Nice                                 |
| 60–66              | Enough                | And        | Execution meets the minimum criteria |
| 1–59               | Disappointing         | Fx         | Retake required                      |

## VII. Recommended Reading and Online Resources

1. Bandurka O. O., Gvozdik O. I., Kravets V. M. Logika dlya pravoznavtsiv [Logic for lawyers]. Helps. Kyiv: Nats. Acad. Sci. in. Affairs, 2016. 144 p. (in Russian).
2. Bandurka, O. M., Tyaglo, O. V. Yurydychna logika [Legal logic: textbook]. Kharkiv: Golden Mile, 2011. 224 p. (in Russian).
3. Hnatiuk Y. S. Lectures on the History of Logic. Ivano-Frankivsk: Publisher I. Y. Tretyak, 2009. 148 p. (in Russian).
4. Gudzenko-Aleksandruk O.G. Logika [Logic]. Test tasks for full-time students/ O.G. Gudzenko-Aleksandruk // Lutsk: PP Ivanyuk V.P., 2013. – 23 p.// <https://core.ac.uk/download/pdf/153579613.pdf>
5. Gudzenko O.G. Electronic educational resource: "Logic: distance course of educational discipline" (recommended for use in the educational process (Extract from the protocol No 7 of the meeting of the scientific and methodological council of the Eastern European National University named after Lesya Ukrainka dated June 22, 2020)// <http://194.44.187.60/moodle/course/view.php?id=768>
6. Gudzenko O.G., Polyakov V.G. Test tasks for the implementation of the final control of students' knowledge in the form of computer testing in the discipline "Logic" // <http://cit.eunu.edu.ua/wp-content/uploads/2018/11/TEST18-005.pdf>
7. Gudzenko O.G., Polyakov V.G. Program of the academic discipline "Logic" of bachelor's training, field of knowledge 25 Military sciences, national security, security of the state border, specialty 251 State Security, according to the educational program "State Security". Lutsk, 2019. – 33 p.
8. Gudzenko-Aleksandruk, O.G. "Logika ta filosofiiia u vyschemnomu ucheblenii yak nevyemni elementi humanitarizatsiia vyshche obrazova: metodologichni ta svitohlyadni aspekti" [Logic and philosophy in a higher educational institution as integral elements of the humanities of higher education: methodological and worldview aspects]. Lutsk: Lutsk Pedagogical College, 2020. – P.81-82.
9. Logic and Critical Thinking as Means of Forming Logical Culture and Integral Elements of Humanitarianization of Higher Education // Actual Problems of Society Development: Historical Heritage, Realities and Challenges of the XXI Century. / XIII reading in memory of V.Lypynsky:

materials supplementary. participants of the VIII International. Scientific and Practical Conf. (April 17, 2010). – Lutsk: Volyn Regional Printing House, 2010.– P. 145-150.

10. Dutsiak I. Z. Logika: textbook. Kyiv: Znannia, 2010. 406 p. (in Russian).

11. Zherebkin V. E. Logika: textbook. Kyiv: Znannia, 2004. 255 p. (in Russian).

12. Karamysheva N. V. Logika (teoretychna i prikladna) [Logic (theoretical and applied)]. Helps. Kyiv: Znannia, 2011. 455 p. (in Russian).

13. Karamysheva N. V. Logika i pravoznavstvo (teoretychni vopytanstvo i praktychni zadachi) [Logic and jurisprudence (theoretical issues and practical tasks): textbook for law students]. Lviv: Ivan Franko National University of Lviv, 2012. 120 p. (in Russian).

14. Logic: textbook / V. D. Titov, S. D. Tsalin, O. P. Nevelska-Gordeeva [and others]; for the total. Ed. V. D. Titova. Kharkiv: Pravo, 2006. – 207 p.

15. Ryashko V. I. Logika [Logic]. Helps. Kyiv: Center for Educational Literature, 2009. 328 p. (in Russian).

16. Sinitsa A. S. Logika [Logic]. Helps. / A. S. Sinitsa. Lviv: LDUFK, 2012. 234 p. (in Russian).

17. Synytsia A. S. Methods of verification of the correctness of the conclusion from the premises in the theory of syllogistics. Bulletin of Lviv University. 2007. Vyp. 10, pp. 110–127.

18. Toftul M. G. Logika [Logic]. Helps. For Lawyers (Summary). – Zhytomyr: Zhytomyr Regional Printing House, 2007. 222 p. (in Russian).

19. Khomenko I. V. Logika: textbook. Kyiv: Center for Educational Literature, 2007. 335 p. (in Russian).

20. Khomenko I. V. Logika: practicum. Helps. Kyiv: Yurinkom Inter, 2002. 237 p. (in Russian).

21. Shcherbyna O. Y. Logika dlya juristiv [Logic for lawyers: a course of lectures]. Kyiv: Yurydychna Dumka, 2007. 264 p. (in Russian).

Online Sources:

1. Riddles for the quick-witted. URL: <http://zagadki.org.ua/>.

2. Logic. Online learning materials. URL: <https://pidruchniki.com>.

3. Ukrainian Logic Portal. URL: <http://logic.net.ua>.

4. Riddles with Answers. URL: <https://riddles.tips/>.

5. Stanford Encyclopedia of Philosophy. URL: <http://plato.stanford.edu/>