

**MINISTRY OF INTERNAL AFFAIRS OF UKRAINE
DNIPROPETRVSK STATE UNIVERSITY OF INTERNAL AFFAIRS**

FACULTY OF LAW

SOCIAL AND HUMANITIES DEPARTMENT

**PLANS OF SEMINARS
IN THE ACADEMIC DISCIPLINE
LOGIC**

Academic level bachelor
Specialty 073 Management
Educational program "Financial and economic security and risk
management"
Status of the academic discipline obligatory
Language of instruction English

Plans presented and approved
at the meeting of the department
Social and Humanities
minutes taken on
20. 05. 2020 № 19

**Head of the department
Vladislav HALAPSIS**

Logic // Plans of seminars (practical classes) in the academic discipline, full-time form of study. – Dnipro: Dnipropetrovsk State University of Internal Affairs, 2021. – 10 p.

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TOPIC 1. SUBJECT AND MEANING OF LOGIC. LOGIC AND LANGUAGE

Seminar № 1 - 2 hrs.

Plan

1. Subject and tasks of logic
2. The main stages of development of logic
3. The relationship between language and thinking in logic
4. The role of logic in the formation of logical culture

Key notions, definitions and categories to be studied:

objective subjective logic, forms and methods of thinking.

Tasks for the independent work for Topic 1:

1. The essence of the specifics of logic as a science of laws, forms and methods of thinking.
2. Define objective and subjective logic.
3. What are the main aspects of the relationship logic and practical activities

Individual assignments for Topic 1:

1. Describe the ancient Greek logic to Aristotle.
2. Why Heraclitus of Ephesus is considered the founder of logic
3. What a logical system formed by Democritus

TOPIC 2. CONCEPT AS A FORM OF THINKING. LOGICAL OPERATIONS WITH CONCEPTS

Seminar № 2 - 2 hrs.

Plan

1. Concept as a form of thinking
2. The ratio of concept and word
3. Logical structure of concepts.
4. Types of concepts and the relationship between them
5. Logical operations with concepts and their meaning in practice

Key notions, definitions and categories to be studied:

forms of thinking, signs of similarity signs of difference, essential and non-essential features, the meaning of the concept, scope of the concept

Tasks for the independent work for Topic 2:

1. Classification of generalization and abstraction operations.
2. The ratio of generalization and limitation of concepts
3. Varieties of constraint concept

Individual assignments for Topic 2:

1. Describe natural and conventional signs
2. Analyze the principles of unambiguity, objectivity and interchangeability.
3. Classification of the supposition of terms

Practical class № 1 -2 hrs.

Plan

1. Види понять і відношення між ними
2. Логічні операції з поняттями та їх значення в праві
3. Логічне формування сутності кваліфікації діяльності
1. Types of concepts and the relationship between them
2. Logical operations with concepts and their meaning in law
3. Logical formation of essence activity qualifications

Tasks for the independent work for Topic 2:

1. Classification of generalization and abstraction operations.
2. The ratio of generalization and limitation of concepts
3. Varieties of constraint concept

Individual assignments for Topic 2:

1. Describe natural and conventional signs
2. Analyze the principles of unambiguity, objectivity and interchangeability.
3. Classification of the supposition of terms

Skills to be developed in the course of the class: to use the basic principles of Logic in everyday life and extreme conditions, to know how to use the basic forms of organization and construction of logic argumentations.

TOPIC 3. JUDGMENT AS A FORM OF THINKING. THE LOGIC OF QUESTIONS AND ANSWERS.

Practical class № 2 -2 hrs.

Plan

- 1.Judgment as a form of logical thinking
- 2.Logical structure of judgments
- 3.Analysis of judgments, their types by logical modality
- 4.The relationship between judgments and the conditions of their truth
- 5.Application of judgments in theory and practice

Skills to be developed in the course of the class: to use the basic principles of Logic in everyday life and extreme conditions, to know how to use the basic forms of organization and construction of logic argumentations.

Tasks for the independent work for Topic 3:

- 1.Analyze the true meaning of the judgment.
- 2.How are simple categorical judgments divided by the number and quality
3. How judgments are classified by quantity and quality at the same time
- 4.Classification of terms of judgment

Individual assignments for Topic 3:

- 1.Analyze complex judgments formed with the help Schaefer's stroke.
- 2.Describe the disjunctive judgments. Analyze complex judgments formed with the help Pierce's arrows.

TOPIC 4. BASIC LAWS OF LOGIC

Seminar № 3 - 2 hrs.

Plan

- 1.The essence and genesis of the laws of logic
- 2.Types of logical laws
- 3.The value of the laws of logic in practice

Key notions, definitions and categories to be studied:

laws of logic, law of identity, law of consistency, law of exclusion of the third

Tasks for the independent work for Topic 4:

- 1.What formal and logical laws are considered basic
- 2.The origin of the basic laws of logic
- 3.Relation of the laws of logic to the laws of existence
4. Describe the philosophical discussion about the nature of the laws of logic.

Individual assignments for Topic 4:

- 1.Consider the history of the formation of the law of consistency
- 2.Outline the history of the formation of the law of the excluded third.
- 3.Describe the relationship of the law of the excluded third and a lot of significant logic.

TOPIC 5. INFERENCE AS A FORM OF THINKING.

Practical class № 3 -2 hrs.

Plan

- 1.General characteristics of inference
- 2.Immediate inferences
- 3.Categorical syllogism
- 4.Inferences from complex judgments

Skills to be developed in the course of the class: to use the basic principles of Logic in everyday life and extreme conditions, to know how to use the basic forms of organization and construction of logic argumentations.

Tasks for the independent work for Topic 5:

- 1.Describe how inferences are formed in relation to the logical square.
- 2.How modal inferences are formed
- 3.Formation of inferences of transformation.
- 4.Describe the opposition to the predicate.

Individual assignments for Topic 5:

- 1.Analyze the categorical inferences and their varieties.
- 2.Describe the division-conditional inferences and their varieties.
- 3.Analyze the most common mistakes during the formation divisive judgments.

4. Describe the purely conditional inferences and their types.

TOPIC 6. DEDUCTIVE INFERENCES FROM COMPLEX STATEMENTS. INDUCTIVE REASONING

Practical class № 4 -2 hrs.

Plan

1. The essence of deductive reasoning
2. The value of deductive reasoning
3. The value of inductive inference
4. Using inductive reasoning

Skills to be developed in the course of the class: to use the basic principles of Logic in everyday life and extreme conditions, to know how to use the basic forms of organization and construction of logic argumentations.

Tasks for the independent work for Topic 6:

1. What are the varieties of inductive inference
2. How are complete and incomplete inductions
3. Adherence to which preconditions increases the probability of incomplete induction

Individual assignments for Topic 6:

1. What characterizes scientific induction
2. What inference is by analogy
3. How analogy, deduction and induction relate

TOPIC 7. LOGICAL FOUNDATIONS OF ARGUMENTATION. EVIDENCE-BASED REASONING

Practical class № 5 -2 hrs.

Plan

1. General characteristics of argumentation and its types
2. Argument structure (proof)
3. Characteristics of types of argumentation
4. Requirements for proof. Refutation and its role in legal activity

5.Proof and refutation in practice

Skills to be developed in the course of the class: to use the basic principles of Logic in everyday life and extreme conditions, to know how to use the basic forms of organization and construction of logic argumentations.

Tasks for the independent work for Topic 7:

- 1.The main forms of demonstration.
- 2.Definition of direct proof.
- 3.The basis for the division of evidence into direct and indirect.
- 4.The concept of apogogic proof.
- 5.The course of formation of apogogic proof.
- 6.Definition of separation proof.

Individual assignments for Topic 7:

- 1.Characteristics of refutation as a logical procedure.
- 2.Definition of types of refutation.
- 3.Ways to refute the thesis.
- 4.Refutation of arguments and demonstrations.

ТОПІС 1. (назва теми згідно з РПНД)

Seminar № – ____ hrs.

Plan

- 1.
- 2.
- ...

Key notions, definitions and categories to be studied: _____.

Practical class № – ____ hrs.

Plan

- 1.
- 2.
- ...

Skills to be developed in the course of the class (за потреби – перелік документів, складання яких передбачається програмою): _____.

Tasks for the independent work for Topic 1:

- 1.
- 2.
- ...

Individual assignments for Topic 1:

- 1.
- 2.
- ...

RECOMMENDED LITERATURE

Recommended literature for Topic 1:

- 1.
- 2.
- ...

Recommended literature for Topic 2:

- 1.
- 2.
- ...

QUESTIONS FOR THE FINAL ASSESSMENT

- 1.
- 2.
- 3.

