


MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
WEST UKRAINIAN NATIONAL UNIVERSITY
LAW FACULTY

Approved
T.a. Dean of Faculty of Law
Nadiia MOSKALYUK
« 21 / 08 / 2023 »



Approved
A. vice-rector for scientific and pedagogical work
Viktor OSTROVERKHOV
« 21 / 08 / 2023 »



Work program
discipline
«Information technologies in law»

Higher education degree - bachelor
Field of knowledge - 29 International relations
Specialty - 293 International law
Educational and professional program – «International law»

Department of Security and Law Enforcement

| Form of study | Study year | Semester | Lectures | Practical classes | Individual work | Training, CPIT | Student -self study | Total | Exam/ Credit |
|---------------|------------|----------|----------|-------------------|-----------------|----------------|---------------------|-------|--------------|
| Full- time | 1 | 2 | 16 | 30 | 3 | 6 | 95 | 150 | Exam |

21.08.2023
[Signature]

Ternopil – WUNU, 2023

The work program was developed on the basis of the educational and professional program for Bachelor's field of knowledge 29 International relations, specialty 293 International law (approved by the Academic Council of WUNU, Protocol No 10 from 23.06.2023).

The working program was compiled by the Associate Professor of the Department of Security and Law Enforcement, Doctor of Economic Science, Associate Professor Andrii KOLESNIKOV.

The work program was considered and approved at the meeting of the Department of Security and Law Enforcement, Protocol No. 1 dated 29.08.2023.

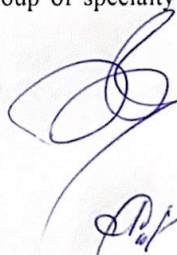
A. Head of Department



Ihor METELSKYI

Considered and approved by the Support group of specialty 293 International law, Protocol No. 1 dated August 31, 2023.

Head of the SGS



Yaryna ZHUKORSKA

Guarantor of EP



Liudmyla SAVANETS

DESCRIPTION OF THE DISCIPLINE "INFORMATION TECHNOLOGY IN LAW"

| Discipline – Information technology in law | Field of knowledge, Specialty, Educational and Professional Program, higher education degree | Characteristics of the academic discipline |
|--|---|--|
| Number of credits ECTS – 5 | Field of knowledge – 29 International relations | Discipline status: mandatory Language of study: English |
| The number of credits modules – 4 | Specialty – 293 International law | Study year – 1 Semester – 2 |
| Number of contents modules – 2 | Educational and Professional Program - International Law | Lectures – 16 hours Practical classes – 30 hours |
| Total hours – 150 | Higher education degree – bachelor | Student-self study – 95 hours, Training, CPIT – 6 hours. Individual work – 3 hours. |
| Weekly hours - 3 hours, including 10 hours of classroom hours. | | The type of final control is an exam |

2. The purpose and tasks of studying the discipline

"Information technology in law"

2.1. The purpose of studying discipline

The purpose of the course "Information Technology in Law" is to acquire theoretical knowledge and practical skills on the nature and basics of the use of information technology in various fields of legal activity; possession of technical and organizational tools for the use of information retrieval and information and analytical technologies; mastering information security skills, namely:

- a) scientific and legal: to establish and develop students skills and abilities to use specialized and non-specialized legal and other databases and open registers; to develop skills in working with information and analytical aggregator programs;
- b) general education: to form an understanding of the peculiarities of information protection, information security and ways to comply with it;
- c) educational: to promote the formation of patriotism, socio-political and legal culture of the future lawyer.

2.2. The task of studying the discipline

One of the main tasks of the course is to develop the skills of using modern information and analytical technologies in the field of law among law students.

As a result of studying the discipline, the student should

know:

- the essence of the information space in jurisprudence;
- types of basic information retrieval systems;
- basic requirements that must be met to ensure information security;
- features of information support for automated tasks of the Ministry of Justice of Ukraine;
- basics of automation of judicial proceedings and legal proceedings;
- features of information systems of international organizations;
- trends in the use of artificial intelligence in judicial proceedings.

be able:

- use the registers administered by the State Enterprise "National Information Systems";
- use the open data portal;
- work with YouControl and Clarity Project aggregator programs;
- take measures to protect personal information;
- use available registers of justice and notary bodies;
- use the services of the Judiciary of Ukraine platform;
- use the registers of international organizations;
- understand the basics of artificial intelligence in law.

2.3. Name and description of competencies, the formation of which provides the study of discipline

GC 2. Ability for learning and mastery of modern knowledge.

GC 5. Ability to search for, process, and analyze information from a variety of sources.

2.4. Prerequisites for other disciplines

Successful mastery of the course material requires students to have basic knowledge of the functioning of legal institutions.

2.5. Program learning outcomes

LO 14. Using modern digital technologies, collect, systematize and analyze information from various sources on international and national legal processes and phenomena.

LO 19. Independently determine educational goals and learning trajectories, find the necessary educational resources.

3. Program of educational discipline "Information technology in law"

Content module 1: The essence and basics of information technology application

TOPIC 1. THE ESSENCE OF INFORMATION SPACE IN JURISPRUDENCE

The essence and properties of information. Types of information. Characteristics and importance of informatization in legal activities

TOPIC 2. BASICS OF USING INFORMATION RETRIEVAL SYSTEMS AND AGGREGATOR PROGRAMS

Work in the open data system. Basic operations of information retrieval systems and their classification. Information and analytical programs aggregators.

TOPIC 3. INFORMATION SECURITY

The essence and categories of information security. Unauthorized access. Basic elements of authentication and identification. Organizational, technical and regime measures of information security systems. Cryptography. Key management.

TOPIC 4. ARTIFICIAL INTELLIGENCE IN JURISPRUDENCE IN UKRAINE AND ABROAD

The main aspects of the use of artificial intelligence in law. Perspectives and challenges of using artificial intelligence. Ethical issues of using artificial intelligence. Foreign experience in the implementation of artificial intelligence in the legal sphere. Examples of the use of artificial intelligence in law.

Content module 2: Use of legal technologies in legal practice

TOPIC 5. INFORMATION SYSTEMS OF THE JUDICIARY

The concept of creating Registers of the Ministry of Justice of Ukraine. Information support of automated tasks of the Ministry of Justice of Ukraine. Functionality of the state enterprise "Information Center" of the Ministry of Justice of Ukraine.

TOPIC 6. INFORMATION SYSTEMS OF THE JUDICIAL AUTHORITIES

Problems and prospects of court informatization. Information technologies used by Supreme Court of Ukraine. Typical automated workstations of general jurisdiction courts. Automation of judicial office work and court proceedings.

TOPIC 7. INFORMATION SYSTEMS OF INTERNATIONAL ORGANIZATIONS

The role of international information in the UN system. UNESCO information system. NATO information system. Information system of the ECHR.

TOPIC 8. INFORMATION SYSTEMS OF LAW ENFORCEMENT AGENCIES

Characteristics of the main information and analytical systems in law enforcement. Features of the use of information and analytical systems by individual units of law enforcement agencies. Basics of using the registers of the international police organization Interpol

4. The structure of the credit loan "Information technology in law" (Full-time education)

| | Number of hours | | | | | Control measures |
|--|-----------------|----------|--------------------|-----------------|----------------|-----------------------------------|
| | Lectures | Seminars | Student-self study | Individual work | Training, CPIT | |
| Content module 1. | | | | | | |
| The essence and basics of information technology application | | | | | | |
| Theme 1. The essence of information space in jurisprudence | 2 | 4 | 12 | | 3 | Questions, training |
| Theme 2. Basics of using information retrieval systems and aggregator programs | 2 | 4 | 12 | | | Training, online tasks |
| Theme 3. Information security | 2 | 4 | 12 | | | Questions, training |
| Theme 4. Artificial intelligence in jurisprudence in Ukraine and abroad | 2 | 4 | 12 | 1 | | Questions, tasks |
| Content module 2. | | | | | | |
| Use of legal technologies in legal practice | | | | | | |
| Theme 5. Information systems of the judiciary | 2 | 4 | 12 | 1 | 3 | Training, online tasks |
| Theme 6. Information systems of the judicial authorities | 2 | 4 | 12 | 1 | | Training, online tasks |
| Theme 7. Information systems of international organizations | 2 | 4 | 12 | | | Questions, training, online tasks |
| Theme 8. Information systems of law enforcement agencies | 2 | 2 | 11 | | | Training, online tasks |
| Total | 16 | 30 | 95 | 3 | 6 | |

5. Topics of practical classes on the discipline "Information technology in law"

Practical classes are aimed at deepening students' theoretical knowledge and acquiring the necessary practical skills to solve specific practical situations, work with

databases and registers.

Preparation for practical classes includes studying theoretical material, getting acquainted with regulations and special scientific literature on the topic of the class. In order to check the level of mastery of the material, you must answer control questions and complete practical tasks.

The working program of the course Information Technology in Law provides for 30 practical classes. Classes are held on all topics provided for in the syllabus.

Content module 1. The essence and basics of information technology application.

PRACTICAL CLASS 1-2. THE ESSENCE OF INFORMATION SPACE IN JURISPRUDENCE

Purpose: knowledge of the essence, types and features of information in jurisprudence; development of skills in working with registers administered by the State Enterprise "National Information Systems" and the State Statistics Service of Ukraine

1. The essence and properties of information.
2. Types of information.
3. Characteristics and importance of informatization in legal activities
4. Formation of skills with registers administered by the State Enterprise "National Information Systems"
5. Formation of skills with the resources of the State Statistics Service of Ukraine

PRACTICAL CLASS 3-4. BASICS OF USING INFORMATION RETRIEVAL SYSTEMS AND AGGREGATOR PROGRAMS

Purpose: understanding of the essence of open data and information retrieval systems; understanding of the essence of information and analytical programs of aggregators; development of skills in working with the unified register of court decisions; open data portal; YouControl platform; Clarity Project platform.

1. Work in the open data system.
2. Basic operations of information retrieval systems and their classification.
3. Information and analytical aggregators.
4. Formation of skills in working with a unified register of court decisions.
5. Developing skills in working with the open data portal.
6. Developing skills in working with the YouControl platform.
7. Formation of skills to work with the Clarity Project platform.

PRACTICAL CLASS 5-6. INFORMATION SECURITY

Purpose: understanding the essence of information security and the peculiarities

of its provision; online trainings "Information Security", "Digital Communications in the Global Space" (Prometeus platform)

1. The essence and categories of information security.
2. Unauthorized access.
3. Basic elements of authentication and identification.
4. Organizational, technical and regime measures of information security systems.
5. Cryptography.
6. Key management
7. Information security. Certified online training
8. Digital communications in the global space. Certified online training

PRACTICAL CLASS 7-8. ARTIFICIAL INTELLIGENCE IN JURISPRUDENCE IN UKRAINE AND ABROAD

Purpose: understanding of the essence and peculiarities of the use of artificial intelligence in jurisprudence in Ukraine and abroad; development of basic skills in the use of artificial intelligence as a legal advisor

1. The main aspects of the use of artificial intelligence in law.
2. Prospects and challenges of using artificial intelligence.
3. Ethical issues of using artificial intelligence.
4. Foreign experience in the implementation of artificial intelligence in the legal sphere.
5. Examples of the use of artificial intelligence in law.

Content module 2: Use of legal technologies in legal practice

PRACTICAL CLASS 9-10. INFORMATION SYSTEMS OF THE JUDICIARY

Purpose: understanding of the essence and features of information support of the judicial authorities of Ukraine; development of skills in working with registers of judicial authorities and notaries; development of skills in working with the electronic cabinet of a citizen.

Questions for discussion:

1. The concept of creating registers of the Ministry of Justice of Ukraine.
2. Information support of automated tasks of the Ministry of Justice of Ukraine.
3. Activities of the state enterprise "Information Center" of the Ministry of Justice of Ukraine.
4. Formation of skills in working with registers of justice and notary bodies.
5. Development of skills in working with the electronic cabinet of a citizen.

PRACTICAL CLASS 11-12. INFORMATION SYSTEMS OF THE

JUDICIAL AUTHORITIES

Purpose: understanding of the essence, features and prospects of information systems of the judiciary; development of skills in working with open registers of the judiciary; introduction to the peculiarities of the work of the state enterprise "Center of Judicial Services"; acquaintance with the peculiarities of the electronic court system; acquaintance with the Regulations on the automated court document management system; attendance at an online broadcast of a court hearing.

Questions for discussion:

1. Problems and prospects of court informatization.
2. Information technologies in the activities of the Supreme Court of Ukraine.
3. Typical automated workplaces of courts of general jurisdiction.
4. Automation of judicial proceedings and judicial proceedings.
5. Formation of skills in working with open registers of the judiciary.
6. Acquaintance with the peculiarities of the work of the State Enterprise "Center of Judicial Services".
7. Acquaintance with the features of the electronic court system.
8. Acquaintance with the Regulations on the automated court document management system
9. Attendance of an online broadcast of a court session

PRACTICAL CLASS 13-14. INFORMATION SYSTEMS OF INTERNATIONAL ORGANIZATIONS

Purpose: understanding of the essence and formation of basic skills of searching for information in the information systems of international organizations.

Questions for discussion:

1. The role of international information in the UN system.
2. Information system of UNESCO.
3. NATO information system.
4. ECHR information system.

PRACTICAL CLASS 15. INFORMATION SYSTEMS OF LAW ENFORCEMENT AGENCIES

Purpose: understanding of the essence and peculiarities of using information and analytical systems in law enforcement, in particular the integrated information and search system of the internal affairs agencies of Ukraine; development of skills in working with the "MIA Search" platform; familiarization with the Procedure for access to personal and reference records of the unified information system of the Ministry of Internal Affairs of Ukraine.

Questions for discussion:

1. Characteristics of the basic information and analytical systems in law enforcement.

2. Features of the use of information and analytical systems by individual units of law enforcement agencies.
3. Basics knowledge of using the registers of the international police organization Interpol.
4. Formation of skills to work with the platform "MIA Search"
5. Acquaintance with the Procedure for access to personal and reference records of the unified information system of the Ministry of Internal Affairs of Ukraine

6. Complex practical individual task

The purpose of CPIT is the formation and development of skills for working with information and analytical technologies in the legal system. The task is carried out in the form of acquiring skills for working with open databases, specialized integrated information and search systems and available information resources in order to find the maximum amount of available information about the company (the object is chosen by the student independently or assigned by the teacher), and the investigation of the facts of a possible violation of norms current legislation. Based on the results of the search operations, an analytical note is formed with the confirmation of the found risk factors with the help of screenshots and the indication of the violated legal norms.

7. Student-self study on the discipline "*Information technology in law*"

The purpose of independent student work is a deep study of aspects of the use of information in the legal system.

Performing independent work must begin with studying the relevant sections of textbooks, study guides, scientific sources, etc., listed in the list of recommended literature, as well as additional literature and practical materials that the student must find and work over independently.

Themes of Students independent work

| Themes | Full Time |
|--|-----------|
| Analytical data processing | 4 |
| Information security in computer networks | 4 |
| Information ecology - problems and solutions | 3 |
| Expert systems | 3 |
| Electronic document as a source of evidence in a lawsuit | 4 |
| The use of video conferencing in legal activities | 3 |
| Intelligent data analysis | 3 |
| Intelligent information and information-analytical technologies | 4 |
| Information technology as a tool for the formation of management decisions | 3 |

| | |
|---|----|
| Information society: components and prospects of construction | 4 |
| Computer expertise as a type of forensic activity | 4 |
| Objects of civil rights in the electronic space | 3 |
| The main directions of application of information technology in the system of law | 4 |
| Prospects and trends in the development of information technology tools | 3 |
| The concept of information, data, information resources and knowledge | 3 |
| Knowledge management portal | 3 |
| Ownership of information: problems and practice of ensuring | 3 |
| Legal protection of personal data | 3 |
| Legal regulation of the use of electronic digital signatures | 3 |
| Legal regulation of creation and implementation of information systems | 3 |
| Legal regulation of disputes over the Internet | 3 |
| Legal basis of cryptography in Ukraine | 3 |
| Legal basis of steganography | 3 |
| Problems of establishing and investigating computer crimes | 3 |
| Programs for generating reports and operational analysis of business data | 3 |
| Software products for statistical and marketing analysis | 3 |
| Spam - legal aspect | 3 |
| Data storage technologies | 3 |
| Typical operations in data processing information systems | 3 |
| Total | 95 |

8. Training on the discipline "*Information technology in law*"

The purpose of the training is to form and develop skills in working with information technology in judicial practice. The training is conducted in the form of a meeting with a practitioner and a demonstration of the features of the Electronic Court system available for public disclosure.

9. Assessment tools and methods of demonstration of learning results

In the process of studying the discipline "Information Technology in Law", methods of assessing student performance are used:

- current testing and surveys;
- evaluation of practical tasks;
- final evaluation for each content module;
- presentations of the results of completed tasks and research;

- student presentations and speeches at scientific events;
- other types of individual and group assignments.
- assessment of the implementation of the KPIs;
- examination.

10. Criteria, forms of current and final control

In the process of studying the discipline "Information Technology in Law", the level of students' training is evaluated by passing an exam. The examination is graded according to the scale below:

| Credit module 1 | Credit module 2 | Credit module 3 | Credit module 4 | Total |
|--|--|---|--|-------|
| 20 | 20 | 20 | 40 | 100 |
| Completing tasks during class (4 topics 10 points per topic = 40 points) 2. Written work = 60 points (3 questions, 20 points per each) | Completing tasks during class (4 topics 10 points per topic = 40 points) 2. Written work = 60 points (3 questions, 20 points per each) | 1. Active participation in trainings, presentations and self-presentation = 20 points. 2. Preparation of CPIT = 50 points. 3. Protection of CPIT = 30 points. | 1. Test tasks (10 tests, 2 points per each) – max 20 points. 2. Theoretical question (2) – max 40 points. 3. Practical assignment (1) – max 40 points. | - |

Grading scale:

| On the scale university | On the national scale | On the ECTS scale |
|-------------------------|-----------------------|--|
| 90-100 | excellent | A (excellent) |
| 85-89 | good | B (very good) |
| 75-84 | | C (good) |
| 65-74 | satisfactory | D (satisfactory) |
| 60-64 | | E (enough) |
| 35-59 | non-satisfactory | FX (non-satisfactory with possibility of repeated passing) |
| 1-34 | | F (non-satisfactory with repeated course of lectures) |

11. Tools, equipment and software, used for the discipline study

| № | Name | Theme number |
|---|---|--------------|
| 1 | Methodological materials on the structure of information and analytical support for the national police | 8 |
| 2 | Software for information retrieval activities | 2 |
| 3 | Multimedia projector EpsonEB-S05 | 1-8 |
| 4 | General purpose application software purpose (Microsoft Office) | 1-8 |

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