

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**  
**Lesya Ukrainka Volyn National University**  
**International Relations Faculty**  
**International Relations Department**

**SYLLABUS**

of an elective academic component

**«DATA ANALYTICS IN INTERNATIONAL RELATIONS  
WITH ELEMENTS OF GRAPHIC DESIGN»**

**Bachelor training**

**Lutsk – 2026**

The syllabus of the elective academic component «Data Analytics in International Relations with Elements of Graphic Design», Education Level – Bachelor.

**Developer:** PhD of 291 «International Relations, Public Communications and Regional Studies», senior lecturer of the International Relations Department, **Nazarii SHULIAK**

**Approved**

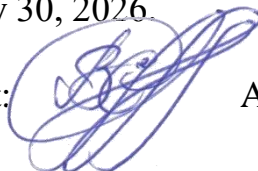
by the Guarantor of the Education and Professional Programme:



Associate professor **Yevhenia VOZNIUK**

The syllabus of the elective academic component was approved at the meeting of the International Relations Department  
Protocol № 7 of January 30, 2026.

Head of the Department:



Associate professor **Yevheniia VOZNIUK**

## I. THE DESCRIPTION OF THE ELECTIVE ACADEMIC COMPONENT

Indicator Name	Field of Knowledge, Educational and Professional Programme, Education Level	Characteristics of the Academic Component
Full-Time Form of Education	C «Social Sciences, Journalism, Information and International Relations», C3 «International Relations», «International Communication and Mediation», bachelor	<b>Elective</b>
Number of Hours / Credits 150 / 5		<b>Year of Study – 2</b>
		<b>Semester – 4</b>
Individual Student's Work: no		<b>Lectures – 10 hours</b>
		<b>Seminars – 20 hours</b>
		<b>Independent Work – 110 hours</b>
<b>Language of Study:</b>		English
		<b>Consultations – 10 hours</b>
		<b>Form of Control: Credit</b>

## II. INFORMATION ABOUT THE INSTRUCTOR

**Name:** Nazarii SHULIAK

**Academic Title:** PhD of 291 «International Relations, Public Communications and Regional Studies», senior lecturer of the International Relations Department

**Contacts:** 099 7783555, [nazarii.shuliak@vnu.edu.ua](mailto:nazarii.shuliak@vnu.edu.ua)

**Days Classes:** <https://ps.vnu.edu.ua/cgi-bin/timetable.cgi>

## III. DESCRIPTION OF THE ELECTIVE ACADEMIC COMPONENT

### 1. Course Abstract

The elective academic component *Data Analytics in International Relations with Elements of Graphic Design* is aimed at forming students' competencies in data-driven analysis of international political, economic, and security processes combined with visual communication and graphic presentation skills. The course focuses on the collection, processing, interpretation, and visualization of international data, including statistical indicators, geopolitical datasets, media data, and policy-related information. Special attention is paid to visual analytics, infographics, dashboards, and analytical presentations as tools of strategic communication, foreign policy analysis, and decision-making support. The course integrates elements of data analytics with basic principles of graphic design to ensure clarity, credibility, and effectiveness of analytical products in international relations.

2. *Goal* of the course is to provide students with theoretical knowledge and practical skills in data analytics and visual representation of information for

international relations research, strategic communications, and policy analysis. The main objectives of the course are: to introduce key concepts of data analytics in international relations; to develop skills of working with international datasets; to form competencies in data visualization and visual storytelling; to apply basic principles of graphic design to analytical products; to develop critical thinking regarding interpretation and manipulation of data.

3. *Soft skills*: analytical and critical thinking; data literacy; visual communication skills; problem-solving; creativity; teamwork; presentation skills; ethical reasoning; adaptability to digital tools; responsible use of data.

#### 4. *Structure of the Elective Academic Component*

<b>Names of Content Modules and Topics</b>	<b>Total</b>	<b>Lectur.</b>	<b>Sen.</b>	<b>Indep. work</b>	<b>Cons.</b>	<b>Control / Points*</b>
<b>Content module 1. Foundations of Data Analytics in International Relations</b>						
<b>Topic 1.</b> Data Analytics in International Relations: Concepts and Role	20	2	2	14	2	DS, P 10
<b>Topic 2.</b> International Data Sources and Datasets	20	2	2	14	2	DS, P 10
<b>Topic 3.</b> Quantitative Indicators and International Statistics	18	2	4	10	2	DS, P 15
<b>Topic 4.</b> Data Reliability, Bias, and Ethics in International Analytics	17		2	13	2	DS, P 15
<b>Total for Content Module 1</b>	<b>75</b>	<b>6</b>	<b>10</b>	<b>51</b>	<b>8</b>	<b>50</b>
<b>Content module 2. Applied Use of Neural Networks in Information Analytics</b>						
<b>Topic 5.</b> Principles of Data Visualization and Visual Perception	19	2	2	13	2	DS, P 15
<b>Topic 6.</b> Infographics and Visual Storytelling in International Relations	17		2	13	2	DS, P 10
<b>Topic 7.</b> Dashboards and Analytical Presentations for Decision-making	22	2	4	14	2	DS, P 15
<b>Topic 8.</b> Visual Manipulation, Misinformation, and Data Ethics	17		2	13	2	DS, P 10
<b>Total for Content Module 2</b>	<b>75</b>	<b>4</b>	<b>10</b>	<b>53</b>	<b>8</b>	<b>50</b>
<b>Total:</b>	<b>150</b>	<b>10</b>	<b>20</b>	<b>104</b>	<b>16</b>	<b>100</b>

\*Control methods: DS – discussion, DB – debate, T – tests, TR – training, PM/CM – problems/cases management, IST/ISW – individual task/individual work of the student, SGW – work in small groups, MTP/TP – module test paper/test paper, Ab – abstract, analytical note, analytical essay, analysis of the work, P – presentation.

#### **IV. TASKS FOR INDEPENDENT WORK**

Independent work includes studying the material covered in practical classes. Students can work with the materials covered in practical classes on the distance learning platform <https://teams.cloud.microsoft/>. The effectiveness of independent work is assessed during thematic testing and reflected in the overall assessment of the elective academic component.

#### **V. ASSESSMENT POLICY**

*The instructor's policy regarding the student.* Attendance at classes is mandatory. For objective reasons (for example, illness, international internship, participation in scientific events, etc.), training may take place according to an individual plan in agreement with the instructor. In conditions of martial law or quarantine restrictions, the educational process at the university may be carried out in a mixed form of learning, namely: in person in the classroom or remotely in Microsoft Teams.

*Academic Integrity Policy.* Plagiarism, data falsification, and unauthorized use of AI tools are prohibited. If AI tools are used, students must clearly indicate this and bear responsibility for the validity and interpretation of results.

*Deadlines and Rescheduling Policy.* All theoretical tasks are submitted on the day of the seminar. Working students coordinate the assignment schedule with the instructor. Missed classes are passed only if there is confirmation of a valid reason for the absence (certificate of absence due to illness or a statement about the need to miss classes).

If the student has completed the training and received the relevant Certificate, then the topic/topics of the discipline or modular test papers (work) can be counted (depends on the subject of the training and is decided separately in each individual case).

*Opportunity to get additional (bonus) points.* There is the respective system of bonuses at the International Relations Faculty and students may be added no more than 15 points to their current control.

#### **VI. FINAL CONTROL**

The credit is given based on the results of the current work, provided that the student has completed the types of academic work specified in the syllabus. If the student did not attend individual classroom classes, during consultations he/she has the right to work through the missed classes and get the number of points that was determined for the missed topics. On the date of the credit, the instructor writes down in the statement the amount of current points that the student scored during the current work (scale from 0 to 100 points). If the student scored less than 60 points during the current work, he/she takes the credit during the liquidation of academic debt. In this case, the points scored during the current assessment are cancelled. The

maximum number of points for the credit during the liquidation of academic debt is 100.

### Questions:

1. Data analytics as a tool of international relations analysis.
2. Types of data used in international studies.
3. International statistical and analytical databases.
4. Quantitative indicators in foreign policy analysis.
5. Data reliability and bias in international analytics.
6. Ethics of data usage in international relations.
7. Principles of data visualization.
8. Visual perception and information processing.
9. Infographics as an analytical tool.
10. Visual storytelling in strategic communications.
11. Dashboards in policy analysis.
12. Analytical presentations for decision-makers.
13. Risks of data and visual manipulation.
14. Visual misinformation and propaganda.
15. Graphic design principles for analysts.
16. Colour, layout, and hierarchy in visualization.
17. Visual analytics in security studies.
18. Data visualization in geopolitical analysis.
19. Responsible visual communication.
20. Future trends in data analytics and visualization in international relations/

### VII. GRADING SCALE

Scores	Linguistic Grade
90-100	Passed
82-89	
75-81	
67-74	
60-66	
1-59	Fail (needed to retake)

### VIII. REFERENCES

1. EU DisinfoLab. AI and Disinformation: Risks and Countermeasures. Brussels, 2023. URL: <https://www.disinfo.eu/>.
2. European Commission. Artificial Intelligence Act (AI Act). Brussels, 2024. URL: <https://digital-strategy.ec.europa.eu/>.
3. Google AI & Machine Learning Education. URL: <https://developers.google.com/machine-learning>.

4. Hugging Face – NLP Models and Documentation. URL: <https://huggingface.co/>.
5. Jurafsky D., Martin J. H. Speech and Language Processing. 3rd ed. (draft). *Stanford University*. 2023. URL: <https://web.stanford.edu/~jurafsky/slp3/>.
6. Kaggle Datasets and Tutorials. URL: <https://www.kaggle.com/>.
7. NATO StratCom COE. Artificial Intelligence and Strategic Communications. Riga, 2021. URL: <https://stratcomcoe.org/>.
8. Stanford AI Index Report (annual). URL: <https://aiindex.stanford.edu/>.
9. UNESCO. Recommendation on the Ethics of Artificial Intelligence. Paris, 2022. URL: <https://www.unesco.org/en/artificial-intelligence>.