MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE WEST UKRANIAN NATIONAL UNIVERSITY (WUNU)

APPROVED

Director of B. Harry Lysmyn education and research institute of international relations
Iryna I ASH CHUK of RELATIONS

2023 p.

APPROVED

Acting vice-rector for scientific and pealprogical work victor of the victors of the educational and scientific institute the latest educational technologies

Svyatoslav PYTEL

« » 2023 p.

SYLLABUS

of discipline

"Political science"

ducation qualification level – Bachelor
Knowledge area 05 «Social and behavioral sciences»
Field of training - 051 «Economics»
educational and professional program «International Economics»

Department of Political sciences and Philosophy

Fulltime 1				work	Citi		hours	semester
1 diffillio	2	16	14	2	8	80	120	2
Extramural 1	2	8	4			108	120	2

The Syllabus was drawn up on the basis of educational and professional program of Bachelor level training of approved by the Academic Council of WUNU (protocol № 10 from 23. 06 23 p)

The syllabus is developed by the associate professor of the department of Political sciences and Philosophy Myroslava HURYK

For EPP - «International Economics»

The syllabus was approved at the meeting of the department of Political sciences and Philosophy protocol № 1 of 28.08. 2023

Head of the Department doctor of philosophy, professor	Tetiana CHOLACH
Considered and approved by Specialty Support Gr of2023	roup 051 «Economics», protocol №.
Team leader providing specialty doctor of economic sciences, professor	Victor KOZYUK
Guarantor of EPP	Ihor LYSHYNSKY

STRUCTURE OF EXECUTABLE CODE OF EDUCATIONAL DISCIPLINE

"Political science"

1. Description of discipline of "Political science"

Discipline is the "Political science"	Direction, specialty, educationally- qualifying level	Description of educational discipline
Number of credits of ECTS – 4	051 Economics	Discipline status mandatory discipline Language of education English
Number of the modules of tests – 4	Field of training 05 Social and behavioral sciences educational and professional program International Economics	Year of preparation: Full time - 1 Extramural- 1 Semester: Full time - 1 Extramural - 1, 2
Number of the semantic modules – 2 Common number of hours – 120	A level is a bachelor	Lectures: Full time - 16 Extramural- 8 Practical training: Full time - 14 Extramural - 4 Individual work: Full time - 80 Extramural 108 Training, CPIT - 8 Individual work: Full time - 3 Extramural - 0
A week hours –6 from them audiences – 2		A type of final control is test

2. The purpose and objectives of the discipline "Political science"

2.1. Purpose of studying the discipline:

The aim of the discipline "Political Science" is to study the nature, history and theoretical foundations of the political sphere of public life, methodology of activity and behavior of the main subjects of politics: from the citizen and the local community - to the state and the nation as a whole. Develop the ability to characterize political teachings and doctrines ideally. To develop the ability to give a basic characterization of political doctrines and political-ideological doctrines, to have an idea of the essence of political life, political relations and processes, subjects and objects of politics, to know human and citizen's rights, the essence and meaning of political systems and regimes, processes of international political life, geopolitical situation, status and role of Ukraine in the modern political world, have the skills of political culture, be able to apply political knowledge in their professional and public activities ness.

2.2. Objectives of studying the discipline:

The objective of the lectures is to acquaint students with the theoretical foundations of political science, the world experience of the democratic system of social life and the current state of political relations in Ukraine; which will be taught to students in accordance with the program and work plan of the course «Political Science». This will lay the foundations for the development of democracy in the Ukrainian state and the orientation towards Ukraine's accession to the European Union.

The objective of the practical classes is to form a deep understanding of the basic laws and perspectives of the development of the political sphere of public life, to form a democratic basis of political consciousness and political culture, political participation of student youth and young specialists in the formation and functioning of civil society, the Ukrainian state, and the formation of Ukrainian patriotic and develop guidelines and willingness to defend the young generation of national needs and interests

2.3. Name of competences, formation of which provides study of discipline «Political Science» for specialty 051 «Economy»:

- The ability to exercise their rights and obligations as a member of society, to be aware of the values of civil (democratic) society and the need for its sustainable development, the rule of law, rights and freedoms of man and citizen in Ukraine.
- The ability to act socially responsibly and consciously.
- **2.4**. **Prerequisites for studying the discipline:** "Philosophy", "Psychology of professional activity", "History and culture of Ukraine", "Ukrainian language for professional direction".

2.5. Learning outcomes

for specialty 051 «Economy»":

• Associate yourself as a member of civil society, the scientific community, to recognize the rule of law, in particular in professional activity, understand and be able to use by one's own rights and freedoms, to show respect for rights and freedoms other persons, including members of the team.

3.3. Program of the discipline "Political Science" Content module 1. Political system of society.

Topic 1. Political as a science. The concept of politics and political activity.

The concept of politics, causes and conditions of political sphere formation in public life. Specific, structure and functions of policy, ways of typology. The emergence of political science and stages of its formation. Modern development of political science in the world and Ukraine. The main categories of political science. Its object, subject, research methods. System of Political Science. Relationship of political science with other social sciences. The structure and functions of political science, its role in ensuring social progress. Constitutional political rights and freedoms of the citizen. The concept of political activity, its essence, motives and means. Aspects, levels and forms of political activity. Political interaction and political relations. Typology of political activity. Concepts and main components of the political process. Participation of student youth and other categories of population in the political life of Ukraine.

Topic 2. History of world and national political thought

Origins and main stages of foreign political thought. Political views of the ancient East. Political Thoughts of Ancient Greece and Ancient Rome. Political and religious views of the Middle Ages. Political doctrines of the Renaissance and Reformation. N. Machiavelli - the founder of secular political science. Political thought of modern times. Formation of political thought in the princely days of Ukrainian history. Political ideas of the Cossack period and the Hetman state. National revival and development of Ukrainian political thought in the nineteenth and early twentieth centuries. Ukrainian Political Thought after the National Liberation Revolution of 1917-1921

Topic 3. Political system of society, place and role in it of the state.

Power as a social phenomenon. Subjects, objects, sources and resources of political power, methods of its realization. Concepts and ways of legitimizing political power. The concept of the political system, its structure and functions. Concepts of the political system of D. Easton, G. Almond and K. Deutsch. Political institutions, their varieties and their role in the political system of society. Theoretical principles of interaction of the political system with the environment. Political system and social systems of society). Typology of political systems. Political system of modern Ukraine, problems of its functioning and reform. The concept of the state. The structure of the state, its functions in the political system of society. The concept of "minimum state". Forms of forms of the state. Legal, democratic and social state. Interaction of state and territorial and local self-government bodies. Ukraine as a parliamentary-presidential republic. Decentralization of the state is an urgent problem of reforming the Ukrainian statehood.

Topic 4. Civil society. Political parties, public associations and movements.

Concepts, basic principles and institutions of civil society. The role of civil society in the formation, support and development of democracy and public policy. New forms of civil society that emerged during the Revolution of Dignity. The role of social networks in the functioning of regional and national civil society. The party as a political institute, its features in comparison with the state. Typology of political parties. Features of modern political parties. The concept of a European political party. Political parties in modern Ukraine, their varieties and role in political life of society and the state. Party systems and their typology. The concepts and varieties of public associations and social movements, the legal basis of their activities. Interaction of public associations with parties and government bodies.

Topic 5. Political elite and political leadership.

Concepts and modern concepts of the political elite. Structure and Functions of the Political Elite. Typology of political elites. Quasi-elite, proto-elite and counterrelite. Systemic and antisystemic opposition. The place and role of the political elite in the structure of the national elite. The concept of political leadership and its typology. Essential features of national leadership. Political elite and political leadership in modern Ukraine.

Content Module 2. FUNDAMENTALS OF DEMOCRACY. Topic 6. Political regimes. Features of modern democracy.

The concept of political regime. Criteria for typology of political regimes and their main varieties. Essential features of a democratic regime, its threats. Totalitarianism: objective and subjective prerequisites. Authoritarian regime, its historical and modern models. Manifestations of authoritarianism in the political life of modern Ukraine. The influence of oligarchic groups on the deformation of the political regime. Historical models and modern concepts of democracy. Principles and forms of democracy. Election as the basis of political democracy. Types of election systems. Principles of parliamentary and local elections in Ukraine. Parliamentarism in the system of modern democracy. The waves of democratization in the modern world. Conditions and ways to build and strengthen democracy in Ukraine.

Topic 7. Fundamentals of Ethnic and International Politics.

The concept of ethnicity, nation, national minority. Nations are ethnic, political and mixed. Ethnopolitics, its subjects, objects and democratic principles. Varieties of ethnopolitics of the state and ethno-national groups. Constitutional foundations and realities of the ethno-national politics of the modern Ukrainian state. Nationalism, internationalism and cosmopolitanism. Democratic and authoritarian (integral) nationalism in Ukraine. The causes of separatism in Ukraine and the problems of nation consolidation. Foreign Policy and International Relations. The concept of geopolitics, its basic concepts. International governmental and non-governmental organizations. Democratic foundations of the functioning of the UN, the Council of Europe, the European Union and the OSCE. Ukraine as an associate member of the EU. EU and NATO accession as Ukraine's strategic goal. Global problems of today and the world political process. Ukraine as a subject of international relations. Ukraine's support to the

world community in its war with the russian federation.

Topic 8. Political-ideological systems and political culture.

The concept of political consciousness, political ideology and political psychology. Functions of political consciousness and ideology. Political and ideological pluralism as important principles of functioning of modern democracy. The concept of political movement. World political and ideological doctrines and movements. Liberalism as a political and ideological doctrine. Political and economic principles of liberalism. Liberal ideology in Ukraine and its representatives. Conservatism as a political-ideological doctrine and socio-political movement. Modern neo-conservatism. Conservative political parties in Ukraine. Communist and Social Democratic Ideology: Programming Foundations, Theory and Practice. Communist and Social Democratic Parties in Ukraine. The concept of political culture, its basic concepts. The structure, functions and typology of political culture. The concept of patriarchal, nationalistic and activist political culture. Civic culture as a basis for the functioning and development of democracy. The political culture of modern Ukraine, its ambivalent character. The Impact of the Revolutionary Shocks in Ukraine in 2004 and 2013-2014 on the Formation of the Foundations of an Activist Political Culture.

Topic 9 Political Management and Marketing. Political technologies.

The content and the relationship between the concepts of political governance, political leadership and political management. Subjects and objects of political management, principles of its effective implementation. Types of political management. Stages of the process of preparation and political decision-making. Management of the election campaign. Organization of management activities in the system of legislative and executive authorities and local self-government bodies. Party management. Features of political management and communications in crisis situations.

Concepts, functions and types of political marketing. Subjects, Objects, and Political Marketing Items. Methods and forms of political market research. Features of state political and party marketing. Marketing of the election process, its main steps and functions.

4. Structure of credit credit for the discipline «Political science» (full-time education)

	Number	of hours			
	Lectures	Practic	Self	Individ	Counter
		al	work	ual	measures
		lessons		Work	
Content module 1. THE POL	ICY SYS	TEM O	FTHE S	SOCIET	Y
Topic 1. Political science as a science.	2	2	9		
The concept of politics and political					
activity					
Topic 2. History of world and national	-		9		Current
political thought.					survey
Topic 3. Political system of society, place	2	2	9		
and role in it of the state.					
Topic 4. Civil society. Political Parties,	2	2	9		
Public Associations, and Movements					
Topic 5. Political elites and leadership.	2	2	8		
Content Module 2 FUNDA	MENTA	LS OF I	EMOC	RACY	
Topic 6. Political regimes. Features of	2	2	10		
modern democracy					
Topic 7. Fundamentals of Ethnic and	. 2	2	10		
International Politics					Current
Topic 8. Political-ideological systems and	. 2	2	8	1	survey
political culture					Survey
Topic 9. Political management and	. 2		8	1	-
marketing. Political technologies.					
Total	16	14	80	2	

(extramural education)

		Number of hours	
	Lectures	Practical lessons	Self work
Content module 1. THE POLICY SYSTEM OF THE SOCIETY			SOCIETY
Topic 1. Political	2	2	12
science as a science.			
The concept of politics			
and political activity			
Topic 2. History of			12
world and national			
political thought.			
Topic 3. Political	2	2	12
system of society,			

place and role in it of			
the state.			
Topic 4. Civil society.			12
Political Parties,			
Public Associations			
and Movements			
Topic 5. Political elites			12
and leadership.			
Content 1	Module 2 FUNDAME	ENTALS OF DEMOC	RACY
Topic 6. Political	2		12
regimes. Features of			
modern democracy			
Topic 7. Fundamentals	2		12
of Ethnic and			
International Politics			
Topic 8. Political-			12
ideological systems			
and political culture			
Topic 9. Political			12
management and			
marketing. Political			
technologies.			
Total	8	4	108

5. Topics of practical tasks Practical lesson № 1

Topic 1. Political science as a science. The concept of politics and political activity.

Purpose: To discover the essence of politics, its social functions and to analyze the causes and conditions of the political sphere of social life. Describe the features of the subject, the categorical apparatus and methods of study of political phenomena and processes. To explore the origins and stages of the development of political science in the world and Ukraine, its social functions and the growing role in the context of modern civilization process. To reveal the content, motives and characterize the main types of political activity.

Discussion Questions:

- 1. Politics as a social phenomenon and concept. The structure and functions of the policy, its varieties.
- 2. Motives, goals and means of political activity. Political participation and political functioning.
- 3. The subject, categories, concepts, methods and functions of political science.
- 4. The system of political science, its formation in the world and Ukraine.

Practical lesson No 2

Theme 2. The political system of society, the place and role in the state.

Purpose: To achieve the awareness that the political sphere of society is systemic in nature and thus complies with the laws of the construction and functioning of open self-organized systems. This will be facilitated by an analysis of the political system models that grounded American political scientists in the mid-twentieth century. To reveal the place and role of political power and the state as an institution in the political system.

Discussion Questions:

- 1. The essence of political power, its subject-object model.
- 2. The concept, structure and functions of the political system of society.
- 3. Theoretical foundations of the interaction of the political system with the environment.
- 4. The state as a political institute. Form of government and structure: theory and Ukrainian realities

Practical lesson № 3

Topic 3. Civil society. Political parties, unions and movements.

Purpose: To review the concepts, genesis, basic principles and institutions of civil society. Describe political parties and other voluntary associations of citizens, their role in the civil society system. To find out the peculiarities of interaction between civil society and the state in different political regimes. in today's Ukrainian society.

Issues to discuss

- 1. The concept of civil society, its structure and functions.
- 2. The political party as an institute of civil society
- 3. Functional interaction between civil society and the state.
- 4. Problems of civil society development in Ukraine after the Dignity Revolution.

Practical lesson № 4

Topic 4. Political elite and political leadership in a democracy.

Purpose: Analyze the concepts and current concepts of the political elite, find out its structure and functions. Consider the place and role of the political elite in the national elite system. Explain the concept of political leadership and find out the basics of its typology. Describe the state of political elite and political leadership in contemporary Ukraine.

Issues to discuss

- 1. Signs, structure and functions of the political elite.
- 2. Political leadership: nature, functions, types.
- 3. Political elites and leadership in Ukraine.

Practical lesson № 5

Topic 5.Political regimes. Features of modern democracy.

Purpose: To expose the notion of political regime, its role in the control of society and

the achievement of public purpose. Identify and analyze criteria for typology of political regimes and their main varieties: democratic regime, authoritarianism, totalitarianism. To find out the causes of authoritarianism in the political life of modern Ukraine. To analyze the principles and models of democracy, its role in the functioning of electoral systems and parliaments.

Issues to discuss.

- 1. The concept, social purpose and criteria of the typology of political regimes.
- 2. Essential traits and conditions of formation of democratic, actoritarian and totalitarian regimes. Principles and models of democracy, electoral systems and parliamentarism.
- 3. Features of the political regime of modern Ukrainian society.

Practical lesson № 6

Topic 6. Fundamentals of Ethnic and International Politics.

Purpose: Explain the meaning of the concept of nation, national minorities and ethnopolitics. Describe the constitutional foundations and realities of the ethno-national politics of the modern Ukrainian state. Investigate the phenomenon of ethnic minority nationalism and the manifestations of separatism. To reveal the content of the concepts of foreign policy, international relations, international policy and geopolitics. Analyze the main international governmental organizations: the UN, the Council of Europe, the European Union, the OSCE and the status of Ukraine as an associated EU member.

Issues to discuss

- 1. The concept of ethnicity, nation and ethno-politics.
- 2. Nationalism, internationalism and cosmopolitanism, their modern manifestations.
- 3. The principles of foreign policy and international relations in a democracy.
- 4. Foreign policy and ethno-politics of the Ukrainian state.

References:

[2, 3, 8, 9, 10, 11, 12, 13, 14, 16, 17, 21, 24, 26, 29, 32, 33, 34, 35, 38, 39]

Practical lesson № 7

Topic 7. Political-ideological systems and political culture.

Purpose: To find out the content of concepts: political consciousness, political ideology and political psychology. To consider ideological pluralism as important principles of functioning of modern democracy and to characterize the main political and ideological systems of the present: liberalism, conservatism, social reform and communism. To characterize the essential features, structure, functions and typology of political culture, its features in Ukraine.

Issues to discuss

- 1. Political consciousness and ideology, their role in the functioning of the political sphere of public life.
- 2. Modern political and ideological systems, their spread in the world and Ukraine.
- 3. The concept of political culture of G. Almond, its role in understanding the peculiarities of political life in different countries.
- 4. The political culture of the older generation and young people in Ukraine: common and different.

6. Independent work

№	Topics
1	Interaction of politics and economics
2	The main stages of the development of world and Ukrainian political thought.
3	The main ways of modernization and transformation of political systems.
4	Civil society in Ukraine: traditions, modern state
5	Political elite and political leadership in modern Ukraine.
6	Peculiarities of the modern political regime in Ukraine
7	Ethnopolitical problems of the modern Ukrainian state
8	Political ideologies in modern Ukraine.
9	Manipulative technologies in election campaigns in Ukraine

7. Discipline training, CPIT

Training is a carefully planned process of providing or replenishing knowledge, practicing skills and abilities, changing or renewing certain attitudes, views and beliefs. The training is focused on questions and searches.

Training sample:

"Identification of the main political manipulative technologies in the process of election campaigns."

The training is held for those for whom it is important to make an informed civic and correct political choice during election campaigns, to learn to distinguish between "white", "gray", "black" manipulative political technologies and anti-technologies, to be aware of the importance of one's own political civic choice, how to become a self-sufficient individual and a worthy citizen of his society.

Goal:

- Find out what political technologies and anti-technologies are.
- Determine what is the manipulative nature of political information technologies.
- Find out the importance of social networks (""Instagram", "Facebook") in the system of manipulative political technologies, in particular during election campaigns in Ukraine
- Reveal the impact of the use of information and political manipulative technologies in political and election campaigns in Ukraine.

Target audience:

- Young, active, purposeful young men and women.
- Who wants to be a politically literate and educated citizen.
- Who wants to become an active citizen and subject of social and political life.
- Who cares to make the right political and civic choice.
- Who wants to actively participate in the development of civil society in Ukraine

and the establishment of a European, democratic Ukrainian state.

At the training we will:

- To learn about the freedom of civic choice, to determine one's individual, civic and socio-political values.
- Investigate the place and role of political technologies and anti-technologies in the socio-political life of society.
- Determine the role of mass communications, social networks in the social and political life of the state.
- Identify and analyze the facts of mass consciousness manipulation in the information space.
- To know what political manipulation can manifest itself in, what is the role of mass media in this process.
- Learn to identify and analyze the facts of political manipulation in political advertising and propaganda,
- To form knowledge and skills to counteract political manipulation.

Training program.

- 1. Why are election campaigns necessary and what is their impact on society?
- 2. What is a political campaign?
- 3. What is an election campaign?
- 4. How is the strategy and tactics of the election campaign determined?
- 5. What are political technologies and anti-technologies?
- 6. What is the role of mass communications during political and election campaigns?
- 7. What is the essence of the phenomenon of manipulation?
- 8. How can mass consciousness be manipulated?
- 9. What is the peculiarity of political manipulation of the masses?
- 10. What is the essence of "white", "gray", "black" manipulative political technologies and anti-technology?
- 11. What role do mass media play in manipulative technologies?
- 12. What is the peculiarity of political propaganda as a type of manipulation?
- 13. Why is political advertising an important component of election technology?
- 14. How to counteract political manipulation?

The training will help participants:

- Become more politically educated to participate in the social and political life of society.
- Determine one's own political beliefs and values.
- To be able to set priorities in the process of political choice.
- Realistically imagine yourself as an active citizen, realize your important place and importance in the political life of society.
- Arm yourself with positive motivation for participation in social and political life.
- Use social networks for active participation in political life.

Complex practical individual task

CPIT allows students to acquire the necessary practical skills in solving specific practical problems, developing skills of independent work and mastering the methodology of conducting research related to the topic of CPIT.

The purpose of the CPIT is to: consolidate, deepen and summarize the knowledge acquired by students during the acquisition of theoretical and practical skills and their use in their professional activities. When performing CPIT, the student must demonstrate skills in the field of research activities, work with finished materials, the ability to creative and original solutions to the tasks.

The CPIT is performed independently by each student on the basis of the processed literature. The CPIT shall be drawn up in accordance with established requirements.

The CPIT should include the following sections:

- 1. The title page contains:
- name of the university;
- the name of the department;
- title of the course;
- academic group number;
- date of submission of the RGR to the teacher for review day, month, year.
- 2. Contents.
- 3. Introduction. The introduction reveals the nature, state of the scientific task and its significance. Immediately indicate the purpose and objectives of the study.
- 4. The main part. It reveals the scientific research and corresponds to the chosen topic, introduction and conclusions of the work.
- 5. Conclusions. The conclusions indicate the results obtained during the study, suggestions or recommendations for solving the task in accordance with the results of the study.
- 6. References. Sources are placed in alphabetical order of authors' names or titles. The layout is in the following order:
- regulatory acts (Constitution of Ukraine, Laws, GOST, DSTU, etc.);
- used literature (including periodical);
- literature in foreign languages;
- Online sources with a mandatory mark that contains information on this site (portal). Sitelinks are invalid.
- 7. Design requirements. Times New Roman font, 14, 1.5 intervals; margins: upper and lower 20 mm, left 25 mm, right 15 mm.

Topics for CPIT

- 1. The relationship between politics and the economy in the modern Ukrainian state.
- 2. Financial and economic factors of the effectiveness of political power.
- 3. Positive and negative consequences of the involvement of representatives of big business (i.e., oligarchs) in executive bodies.
- 4. Political activity of domestic entrepreneurs in the conditions of the economic crisis.
- 5. Participation of students in the social and political life of WUNU and the city of Ternopil.
- 6. Problems of reforming the political system in the context of the association agreement with the EU.

- 7. Return to the parliamentary-presidential form of government: causes and consequences.
- 8. The place and role of financial and fiscal bodies in the structure of executive power in Ukraine.
- 9. Financial and economic problems of reforming the state system of Ukraine.
- 10. Prospects for the development of Ukraine as a legal and social state.
- 11. The place and role of political parties in the structure of civil society.
- 12. New institutional forms of civil society formed during the Russian aggression in Ukraine
- 13. Material and financial basis of activities of civil society institutions.
- 14. Problems of overcoming authoritarianism in the political and economic life of Ukraine.
- 15. The relationship between political and economic rights and freedoms of a person and a citizen in Ukraine.
- 16. Assessment of the state of democracy in Ukraine by foreign experts.
- 17. Law on elections of the Verkhovna Rada of Ukraine on financial aspects of the electoral process.
- 18. Representation of the interests of the business class in the Ukrainian parliament.
- 19. Relationship and interaction of political and economic elites in post-revolutionary Ukraine.
- 20. Peculiarities of political leadership in Ukraine.
- 21. The growth of national self-awareness of Ukrainian citizens in the conditions of the russian-Ukrainian war.
- 22. Contemporary ethnopolitics of the Ukrainian state.
- 23. Political and economic advantages that Ukraine received after signing the association agreement with the EU.
- 24. Cooperation of Ukraine with the IMF and other international financial organizations.
- 25. The impact of economic globalization on political processes in Ukraine.
- 26. Economic platform of Ukrainian liberal (centrist) parties.
- 27. Economic and social policy of domestic nationalist parties.
- 28. Problems of political socialization of Ukrainian student youth.
- 29. The ideology of "russian peace" as the ideological basis of russian aggression against Ukraine.
- 30. The role of social networks in the political life of society.
- 31. Active ideological and political opposition to the ideology of russism as the main condition for Ukraine's victory in the war with russia.

9. Assessment tools and methods for demonstrating learning outcomes

The following means of assessment and methods of demonstrating learning outcomes are used in the course of studying the discipline "Political Science":

- standardized tests;
- current survey;
- test module testing and surveys;
- evaluation of CPIT results;
- student presentations and speeches at scientific events;