BUNIN YELETS STATE UNIVERSITY

"APPROVED"
Director of the Institute of Psychology
And Pedagogy _____ /T.D.Krasova/

THE WORK PROGRAMME OF THE DISCIPLINE
B1.E.01.03 Modern technologies of primary education

Direction of training: *44.03.01 Pedagogical Education*
Profile: *Primary education*

Qualification (degree): *bachelor*
Mode of study: *full-time*

Institute *of Psychology and Pedagogy*
Department: *Pedagogy and educational technologies*

	full-time form	full-time and part-time form	part-time form
Study course	3		
Semester	5, 6		
Lectures	28		
laboratory work			
Seminars	28		
Including practical training			
Form of control	Credit test Exam 0,3		
Control	9		
Other forms of work			
Independent work	186,7		

Total number of academic hours: 252
Labor intensity: 7 credits

Developer of the work programme:
Candidate of Pedagogical Sciences, Associate Professor   *Voishcheva E.L.*

I. ORGANIZATIONAL AND METHODOLOGICAL SECTION

The purpose of studying the discipline:
- the formation of future bachelors' professional competences of graduates, established by the university, reflecting the ability to:
- to carry out teaching of academic subjects based on the use of subject methods and application of modern educational technologies that ensure the achievement of meta-subject, subject and personal results;
- apply subject knowledge in the implementation of the educational process in primary school.

Objectives of studying the discipline:
- Familiarisation of students with the features of modern technologies of primary general education and methodological laws of their choice;
- formation of general and specific methodological skills related to the application of modern educational technologies in the process of teaching and education of junior schoolchildren;
- ensuring the mastery of modern educational technologies that contribute to the achievement of meta-subject, subject and personal results of students in primary school.

The place of the discipline in the structure of the BPEP: implemented within the framework of the basic (compulsory part) part of block B.1. Disciplines (modules).

Planned learning outcomes for the course:

Code of competence	Indicators of competence achievement	Planned learning outcomes for the discipline
GPC -2	**Know:** - regularities, principles and levels of formation and realisation of the content of education in primary school disciplines; - the structure, composition and didactic units of the content of school subjects in primary school disciplines;	**Knows:** - general regularities, principles and levels of formation and realisation of the content of education in primary school disciplines;
	Be able to: - to carry out the selection of educational content for implementation in various forms of teaching disciplines of primary school in accordance with didactic objectives, age characteristics of students and requirements of FSES of general education;	**Is able to:** - select educational content to be implemented in various forms of learning using modern educational technologies;
	To possess: - subject content of primary school disciplines; - the skills of selecting variable content, taking into account the interrelation of in-class and out-of-class forms of teaching in primary school disciplines.	**Possesses:** - technologies of primary education; - skills of selecting variable content, taking into account the interrelation of in-class and extracurricular forms of education in primary school disciplines.

II. CONTENT AND SCOPE OF THE DISCIPLINE
indicating the number of hours allocated for contact work of students with the teacher (by type of classes) and for independent work

FULL-TIME EDUCATION

№ п/п	Name of sections and topics	Total	Classroom lessons			Indep. work
			Lec.	Sem.	Lab.work	
	Section 1. «Modern educational technologies»	**108**	**16**	**16**		**60,7**
1.	Topic 1.1. «Paradigm of Modern Education: System-activity and Technological Approaches in Modern Education»	14	2	2		10
2.	Topic 1.2. «General characteristics of educational technologies»	14	2	2		10
3.	Тема 1.3. «Traditional educational technologies»	15	2	2		11
4.	Topic 1.4. «Innovative educational technologies»	15	2	2		11
5.	Topic 1.5. «Learning Technologies»	14	2	2		10
6.	Topic 1.6. «Technologies of work with information of the subjects of the educational process»	14	2	2		10
7.	Topic 1.7. «Expert-evaluation technologies»	8	2	2		4
8.	Topic 1.8. «Subject-specific pedagogical technologies. Modern educational technologies ensuring the achievement of meta-subject, subject and personal results of students»	12,7	2	2		10
	Credit					
	Other forms of work	**0,3**				
	Total for the 5th semester	**107**	**16**	**16**		**76**
	Section 2. «Technological approach and specifics of its implementation in primary general education at the present stage»	**134,7**	**12**	**12**		**110,7**
1.	Topic 2.1. «Technologisatin of the pedagogical process in modern primary education. Interactivity as	25,5	2	2		21,5

	the basis of modern technologies of primary education»					
2.	Topic 2.2. «Modern approaches and technologies in the work of a teacher with younger schoolchildren»	15,6	2	2		11,6
3.	Topic 2.3. «Использование современных образовательных технологий в условиях реализации ФГОС НОО»	15,6	2	2		11,6
4.	Topic 2.4. «Social and educational technologies in primary school. Pedagogical technologies on the basis of activation, intensification and effective management of the educational process»	26	2	2		22
5.	Topic 2.5. «Author's technologies in primary education. From the practice of using modern educational technologies in primary schools»	26	2	2		22
6.	Topic 2.6. «Technologies for organising independent work of students»	26	2	2		22
	Exam					
	Control	*9*				
	Other forms of work					
	Coursework project					
	Total for the 6th semester	*134,7*	*12*	*12*		*110,7*
	TOTAL:	**252**	**28**	**28**		**186,7**

Full-time and part-time education *(not implemented)*

Part-time education *(not implemented)*

III. EVALUATION MATERIALS FOR CONDUCTING CURRENT AND INTERIM CERTIFICATION OF STUDENTS IN THE DISCIPLINE

Current certification is carried out in the form of control work (in traditional or test form), essay.

Standard version of the test paper
In traditional form:

Section 1.

1. Choose the correct statement: 'At the heart of pedagogical technology' is:
a) psychological development of personality in learning;
b) the goals and content of the learning process;
c) the idea of controllability of the learning process, its design;
d) the theory of teaching a particular subject;
e) there is no correct answer.
Argument your point of view.

2. Using reference literature and the main textbooks on the discipline, define the content of the concepts of 'pedagogical technologies', 'educational technologies', 'meta-subject results', 'subject results', 'personal results'.

3 Characterise the main trends and prerequisites for the development of modern educational technologies.

Standard version of the test:

1. **Replace the word she with a specific concept by choosing it from the given ones: 'It concentrates methodological experience in teaching a particular academic discipline. It is embodied in the sequence of lessons and the allocation of the content of individual lessons, in textbooks, teaching aids, teaching aids, supplemented by practical developments of teachers, including those based on scientific, didactic recommendations'.**
(a) Private teaching methodology
(b) Form of teaching
c) teaching technology
d) educational methodology

2 **From the given answer choices, find the correct definition of the notion 'pedagogical technology'.**
a) a system of designing and practical application of adequate pedagogical regularities, principles, goals, content, forms, methods and means of education
b) strictly scientific design and accurate reproduction of pedagogical actions guaranteeing success
c) a complex, integrative process involving people, ideas, means and ways of organising activities to analyse problems and manage problem solving, covering all aspects of knowledge acquisition
d) a consistent system of teacher's actions related to the solution of pedagogical problems as a systematic solution and implementation in practice of a pre-designed pedagogical process.

3) **On the basis of activation and intensification of activities, the following technologies can be distinguished:**
a) game technologies
b) programmed learning technologies
c) humanistic technology
d) modular learning technology
e) all answers are correct

4. **Who first developed the idea of 'technologisation' of learning:**
a) K.D. Ushinsky
b) A.S. Makarenko
c) J.A. Comenius

d) I.G. Pestalozzi

5. What is the most elementary in designing an educational process:
a) textbook
b) curriculum.
c) federal state educational standard.
d) lesson outline

6. Select the mandatory (according to the FSES LEO) requirements to the work programme for the academic discipline taught in primary schools:

a) is developed by the teacher and reflects the specifics of teaching the subject in a particular class of a particular educational institution

b) must become an individual tool of the teacher, with the help of which he/she determines the optimal and most effective for a given class content, forms, methods and techniques of organisation of the educational process in accordance with the goal of obtaining the result defined by the FSES LEO

c) is formed on the basis of the author's curriculum

c) is formed on the basis of the author's curriculum and the corresponding teaching and learning package

d) is considered by the methodological association of primary school teachers and then approved by the head of the educational institution

e) all answers are correct

7. Indicate the correct sequence: The structure of a typical work programme includes the following elements:

a) planning of learning activities (calendar and thematic planning) with highlighting the characteristics of pupils' activities

b) information on the teacher's use of teaching and methodological materials and on the equipment of the teaching process

c) title page

d) explanatory note

8. Pedagogical technology is characterised by...identify the most correct characteristics:
a) systematic
b) cyclicality
c) pragmatic
d) there is no correct answer
e) all answers are correct

9. The principles of learning applied in information technology do not include:
a) the principle of starting knowledge
b) the principle of integration
c) the principle of information security
d) the principle of modelling

10. Establish the correspondence:
a) directions of extracurricular activities
b) types of extracurricular activities
c) forms of extracurricular activities

1) game activity, cognitive activity, problem-value communication, social creativity, labour activity, etc.

2) sports and health-improving, spiritual and moral, general intellectual, general cultural, social activities.

3) circle, section, association, concert, excursion, tourist trip

11. The choice of teaching method depends on many conditions, continue the series:

a) the purpose of learning

b) the level of students' preparedness

c) the age of the students

d) the time allotted for learning the material

д)...

е)...

12. Develop several (1-2-3) methodological recommendations for students / teachers on the use of modern educational technologies to achieve meta-subject, subject and personal results of students.

Section 2.

In the traditional form:

1. Explain the thesis 'Interactivity is the basis of modern technologies of primary education'.

2. Identify the stages of designing educational technology by a teacher.

3. Formulate the pedagogical conditions for the use of modern educational technologies in the learning process and the process of extracurricular activities of junior schoolchildren.

Standard version of the test:

1. The social prerequisites for the emergence and development of modern educational technologies include:

a) increasing complexity of the social order

b) affirmation of humanistic priorities

c) humanisation of the educational environment

d) economic crisis

2. Fill in the blank: 'Control is defined as ..., which consists in identifying, measuring and evaluating knowledge, abilities, skills and establishing the difference between the real and planned level of mastering the educational programme'

a) a system of scientifically-based verification of learning outcomes

b) A marking system

c) a set of applied measures

d) database

3. A significant contribution to the development of research in the field of pedagogical technologies was made by:

a) Bespalco V.P.

b) Pidkasist I.P.

c) Slastenin V.A.

d) there is no correct answer

e) all answers are correct

4. The effectiveness of educational technology is determined by:

a) comparison of the achieved level of development of a student (pupil) with the target model of his/her development

b) professionalism of the teacher

c) the effectiveness of the methods and means used

d) the sum of knowledge and skills of students (pupils).

5. Subject-object relations of a teacher and students are characteristic for the technology of:

a) programmed learning

b) didactocentric

c) authoritarian

6. Discover the essence of the concept by completing the phrase: 'An individual educational route is ...'

a) a personal way to compensate for learning difficulties, to realise the child's personal potential

b) the creation of special pedagogical conditions for the possibility of choosing ways, forms, methods and technologies of education, which allow to support different educational interests of children in learning

c) A purposefully designed differentiated educational programme that provides the student with the position of a subject of choice, development and implementation of the educational programme, with teachers providing pedagogical support for his or her self-determination and self-realisation

d) an individual programme designed for a particular pupil with specific goals to be achieved within a specified time frame

e) A way or method of realising a child's personal potential and developing his or her abilities according to an individual plan (itinerary)

7. Select from the following personality-centred technologies:

a) game technologies

b) Sh. A. Amonashvili's human-personal technology

c) M. Montessori self-development technology

d) I.S. Yakimanskaya's technology of personality-oriented learning

8. Match the concepts and their definitions:

a) subject learning outcomes

b) personal learning outcomes

c) meta-subject learning outcomes

1. Results that are achieved by students in the process of learning a subject

2. The results of activities in different subjects applied by students in learning, in practice and in extracurricular (life) activities

3. can be structured into three blocks:

- self-determination - the formation of the learner's inner position;

- meaning formation - search and establishment of personal meaning of learning by students on the basis of a stable system of educational and cognitive and social motives;

- moral and ethical orientation - knowledge of basic moral norms and orientation; development of ethical feelings - shame, guilt, conscience as regulators of moral behaviour.

9. Establish the correspondence between the concepts and their definitions (content):

a) method of oral control

b) method of written control

c) method of programmed control (machine control)

d) test control.

1) speech, conversation, individual enquiry

2) allows to reveal the knowledge of students, to trace the logic of their presentation of material, the ability to use knowledge to describe or explain processes and events, to express and prove their point of view, to refute an incorrect opinion, etc.

3) involves written assignments (exercises, test papers, essays, reports, etc.)

4) an independent element of different lessons; it has a predominantly checking function and less of a feedback function; computer-based control; saves time for students and teacher

5) a scale, a numerical system in which relations between different objects are expressed by the properties of a number series; the role of an elementary unit of measurement is fulfilled by control tasks selected to determine the level of knowledge; the values obtained by measuring a number allow to penetrate deeper into the essence of the phenomena under study

10. Finish the phrase: 'The improvement of the quality of learning achievements and the quality of pedagogical control is conditioned by the effectiveness of introducing into the educational process...'

a) developmental learning technologies

b) technologies of differentiation and individualisation of learning

c) technologies based on the combination of new methods of control and evaluation of learning outcomes

d) game technologies

11. On the basis of the functional-operational approach, make a scheme of the technology of pedagogical requirements.

12. Continue the series of pedagogical requirements for control in the learning process:

a) control should be exercised over the work of each student, over his personal learning activities. It should not be allowed to substitute the results of learning of individual students with the results of the work of the collective, and vice versa

b) systematicity, regularity of control at all stages of the learning process

в) ...

г) ...

д) ...

Approximate topics of abstracts

Section 1.

1. Modern technologies in the educational process: analysis of foreign experience.

2. Modern technologies in the educational process: analysis of domestic experience. 3. The focus of professional activity of a primary school teacher in the context of using modern technologies of elementary education. 4.

4. Hierarchical levels of the concept of 'pedagogical technologies'. 4.

5. The main groups of pedagogical technologies in education.

6. Traditional pedagogical technologies.

7. Innovative pedagogical technologies.

8. Comparative characteristics of traditional and innovative technologies in education.

9. Modern teaching technologies in the system of primary general, secondary vocational, higher education.

10. Modern educational technologies ensuring the achievement of meta-subject results of students.

11. Modern educational technologies, ensuring the achievement of subject results of students.

12. Modern educational technologies that ensure the achievement of personal results of students.

13. Characteristics and evaluation criteria of innovations in primary general education.

14. The role and significance of the use of pedagogical technologies in modern primary education.

15. Distinguishing features and qualitative uniqueness of educational technologies.

Section 2.

1. FSES LEO: requirements for the use of modern educational technologies.

2. Developmental possibilities of using the technology of collective creative activity in primary school.

3. Social and educational technologies.

4. Technologies of developmental education.

5. Realisation of technological approach in primary education.

6. Technologies of actualising the potential of the subjects of the educational process.

7. Technology of personality-oriented learning.

8. Author's technologies in primary education.

9. Sh.A. Amonashvili's humanistic-personal technology.

10. Technology of pedagogical regulation and correction of the educational process.

11. Technology of educational process control.

12. Characteristics and criteria for evaluating innovations in primary education.

13. Technology of project activity.

14. The technology of 'Portfolio'.

15. Preparation of a bachelor studying in the direction 44.03.01 Pedagogical Education; orientation (profile) Primary Education, to the use of modern educational technologies in the practice of primary school.

Intermediate certification of students is carried out in the form of an exam (in traditional or test form) and a course project using the following assessment materials: list of questions for the exam, sample topics of the course project.

Questions for the test
(5th semester, full-time education)

1. Modern educational technologies: overview and characterisation.

2. Paradigm of modern education: system-activity approach in modern education.

3. Paradigm of modern education: technological approach in modern education.

4. General characteristics of educational technologies: reference points in their development, possible classifications. 4.

5. Traditional educational technologies: their brief characterisation, examples in use.

6. Innovative educational technologies: information and communication technologies.

7. Innovative educational technologies: digital educational technologies and resources for work with younger students.

8. Learning technologies, didactic technologies: signs and general characteristics.

9. Technologies of work with information of the subjects of the educational process: teachers, students.

10. Expert-evaluation technologies: general characteristics, classification, peculiarities of application in the educational process of primary school.

11. Subject-specific pedagogical technologies.

12. Modern educational technologies that ensure the achievement of meta-subject, subject and personal results of students.

13. Qualitative uniqueness of educational technologies and methodological laws of their choice.

14. New approaches and technologies in the work of a primary school teacher with younger pupils.

15. Social and educational technologies. The technology of constructing an educational event.

16. Alternative pedagogical technologies: characteristic of the technology of the student's choice.

17. The main trends of modern education and modern educational technologies.

19. Digital resources for the organisation of the educational process and assessment of students' achievements in a distance format.

Exam questions
(6th semester, full-time education)

1. General characteristic of the phenomenon of 'modern technologies' in primary education. Review of modern educational technologies.

2. Qualitative uniqueness of modern educational technologies.

3. Technological approach and specifics of its implementation in primary education at the present stage. Criteria of technologisation.

4. New approaches and technologies in the work of a primary school teacher with younger pupils. General bases of developmental learning technologies.

5. Classifications of pedagogical technologies.

6. Structural components, attributes, requirements for pedagogical technologies.

7. General characteristics of modern pedagogical technologies. S.N. Lysenkova's technology: perspective-overview teaching with the use of reference schemes in commented management.

8. Social and educational technologies. Pedagogical technologies on the basis of activation, intensification and effective management of the educational process.

9. Characteristics of Sh.A. Amonashvili's humanistic-personal technology.

10. Alternative pedagogical technologies. The technology of early and intensive literacy training (N.A. Zaitsev).

11. Characteristics of innovative technologies in primary education. The technology of developmental learning.

12. Main trends of modern education and modern educational technologies (Case Thurlow).

13. Qualitative characteristics of educational technologies. Classification of technologies used in educational practice; conditions of application, achieved results.

14. The use of modern educational technologies in lessons for the implementation of cognitive and creative activity of schoolchildren in the learning process.

15. Choice of pedagogical technology, teaching methods.

16. Qualitative originality of modern educational technologies of primary education.

17. Private-subject pedagogical technologies. Technology of improving general academic skills in primary school (V.N. Zaitsev).

18. Modern approaches and technologies in the work of a primary school teacher with younger pupils.

19. Pedagogical technologies on the basis of activation and intensification of students' activity (active teaching methods). Game technologies.

20. Social and educational technologies in primary school. Health-saving technologies.

21. Educational technology 'Portfolio' and its possibilities: tracing of individual progress of a pupil, help in realising his/her strengths and weaknesses, consolidation of educational, creative and communicative achievements.

22. Social and educational technologies in primary school. The technology of KTD I.P. Ivanov.

23. Author's technologies in modern primary education. From the practice of using modern technologies in primary education.

24. The use of modern educational technologies in the conditions of implementation of the FSES LEO. General characteristics of modern technologies of educational work of the class teacher, contributing to the development of creative individuality of younger pupils.

25. Modern pedagogical technologies in teaching junior schoolchildren in the conditions of implementation of the FSES LEO.

26. Features of teaching an academic subject on the basis of the use of subject methods and application of modern educational technologies that ensure the achievement of meta-subject, subject and personal results.

27. Methods of control, evaluation and correction of learning outcomes of primary school disciplines.

28. Features of designing a work programme for disciplines studied in primary school.

29. Designing and implementation of various forms of training and organisation of extracurricular activities of junior schoolchildren in the disciplines of primary school, ensuring the achievement of meta-subject, subject and personal results.

30. Qualitative characteristics of modern technologies of primary education.

Approximate topics of the course project

1. Modern technologies of elementary mathematics teaching.
2. Modern technologies of primary education in Russian language.
3. peculiarities of designing the educational process in primary school.
4. Forms and methods of teaching subjects in primary school.
5. Methods of teaching subjects ... (student's choice) in primary school.
6. Formation of future bachelors' skills to design elements of the educational programme, teacher's work programme in the discipline ... (student's choice).
7. Modelling and implementation of various organisational forms in the process of teaching a school subject (lesson, excursion, home, extracurricular and out-of-class work) (student's choice).

8. Means of teaching a school subject in primary school.

9. Formation of readiness of future bachelors to use methods of teaching a school subject.

10. Formation of aesthetic taste in junior schoolchildren at the lessons of ... (student's choice).

11. Modern educational technology, ensuring the achievement of meta-subject, subject, personal results of students (student's choice) in primary school.

12. Modern teaching technologies in primary education (by the example of...) (student's choice).

13. Content and stages of teaching project-research activity in primary school.

14. The role and importance of communicative technologies in the development of the team of first-graders.

15. Game and health-saving technologies in primary school.

IV. LIST OF REFERENCES REQUIRED FOR MASTERING THE DISCIPLINE

4.1. Main literature

1. Zemlyanskaya E.N. Pedagogy of primary education: textbook and practice for universities / E.N. Zemlyanskaya. Zemlyanskaya. - 2nd ed., revision and add. - Moscow: Yurait Publishing House, 2024. - 251 c. - (Higher Education). - ISBN 978-5-534-15816-8. - Text: electronic // Educational platform Yurait [website]. - URL: https://urait.ru/bcode/541139 (date of address: 02.09.2024).

2. Factorovich, A.A. Pedagogical technologies: textbook for universities / A.A. Factorovich. - 2nd ed., revised. and ext. - Moscow: Yurait Publishing House, 2024. - 128 c. - (Higher Education). - ISBN 978-5-534-09829-7. - Text: electronic // Educational platform Yurait [website]. - URL: https://urait.ru/bcode/538399 (date of address: 02.09.2024).

4.2. Additional literature

1. Almazova, I.G. Modern technologies of primary education: Textbook / I.G. Almazova, E.V. Dolgosheeva, S.N. Chislova. - Yelets : YSU named after I.A. Bunin, 2019. - 94 c. - URL: https://www.elibrary.ru/download/elibrary_41527750_71494271.pdf (date of reference: 02.09.2024).

2. Course work on pedagogy and methods: technology of development and design: textbook / comp. E.I. Belanova, M.A. Gabova. - 2nd ed. - Moscow; Berlin: Direct-Media, 2019. - 107 c. - Access mode: by subscription. - URL: http://biblioclub.ru/index.php?page=book&id=575248. - Bibliogr. in book - ISBN 978-5-4499-0122-4. - DOI 10.23681/575248. - Text : electronic (date of reference: 02.09.2024).

3. Peshkova, V.E. Pedagogical technologies of primary education: a course of lectures / V.E. Peshkova. - Moscow; Berlin: Direct-Media, 2015. - 161 c. - Mode of access: by subscription. - URL: http://biblioclub.ru/index.php?page=book&id=344740. - ISBN 978-5-4475-3919-1. - DOI 10.23681/344740. - Text: electronic (date of reference: 02.09.2024).

4. Tsibulnikova V.E. Pedagogical technologies. Health-saving technologies in general education : textbook (with workshop) for students of pedagogical universities / V.E. Tsibulnikova, E.A. Levanova ; Ministry of Education and Science of the Russian Federation, Faculty of Pedagogy and Psychology ; founder Moscow Pedagogical State University ; under general ed. E.A. Levanova. - Moscow: MPGU, 2017. - 148 c. : tabl. ISBN 978-5-4263-0490-1 ; Same [Electronic resource]. - URL: http://biblioclub.ru/index.php?page=book&id=471794 (date of reference: 02.09.2024).

V. LIST OF RESOURCES OF THE INFORMATION AND TELECOMMUNICATION NETWORK "INTERNET" REQUIRED FOR MASTERING THE DISCIPLINE

№	Link to information resource	Name of the development in electronic form	Availability
1.	https://infourok.ru/	Infourok: educational internet project of Russia. Includes: lesson plans, presentations, tests, video lessons and other materials on school curriculum subjects.	Free access
2.	http://edu.ru/	Russian Education: Federal Portal. Includes links to portals and websites of educational institutions; state educational standards; regulatory documents; catalog of excursions and educational programs.	Free access
3.	http://window.edu.ru/	The information system "Single Window of Access to Educational Resources" provides free access to the catalog of educational Internet resources and a full-text electronic educational and methodological library for general and professional education	Free access
4.	http://fcior.edu.ru/	The Federal Center for Information and Educational Resources (FCIER) provides access to electronic educational resources and services for all levels and stages of education.	Free access

VI. MODERN PROFESSIONAL DATABASES AND INFORMATION REFERENCE SYSTEMS

1.	http://www.biblioclub.ru	Electronic library system (ELS) University library online	Registration via a university computer. Further individual unlimited access from any point where there is access to the Internet
2.	www.garant.ru	Information and legal portal	Free access
3.	http://www.classic-music.ru/	Classical music.ru	Free access
4.	www.elibrary.ru	Russian information portal in the field of science, technology, medicine and education	Free access

VII. LICENSED AND FREELY DISTRIBUTED SOFTWARE

The following licensed and freely distributed software is used in the implementation of the academic discipline:
- Microsoft Windows;

- Microsoft Office;
- LibreOffice and others.

VIII. EQUIPMENT AND TECHNICAL TEACHING EQUIPMENT REQUIRED FOR THE IMPLEMENTATION OF THE EDUCATIONAL PROCESS IN THE DISCIPLINE

Classes are held in classrooms equipped with specialized furniture, including stationary or portable technical teaching aids (projector, screen, computer/laptop).

Independent work is conducted in rooms equipped with computer equipment with the ability to connect to the Internet and provide access to the electronic information and educational environment of the university.