

# BUNIN YELETS STATE UNIVERSITY

"APPROVED"

Director of the Institute of Psychology  
And Pedagogy \_\_\_\_\_/T.D.Krasova/



## THE WORK PROGRAMME OF THE DISCIPLINE B1.E.01.02 Teaching technology in primary grades

**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 of Pedagogy and Educational Technologies**

	full-time	full-time and part-time form	correspondence course
<b>Study course</b>	3		
<b>Term</b>	5		

<b>Lectures</b>	16		
<b>laboratory work</b>			
<b>Seminars</b>	32		
<b>Form of control</b>	Credit test		
<b>Control</b>			
<b>Independent work</b>	24		

**Total number of academic hours:** 72

**Labor intensity:** 2 credits.

**Developer(s) of the work programme:** Senior Lecturer G.A. Koryakina

## I. ORGANIZATIONAL AND METHODOLOGICAL SECTION

**The purpose of studying the discipline:** the formation of professional competencies in students related to the organization of the educational process in the discipline "Technology" in primary school.

**Objectives of studying the discipline:**

- familiarizing students with the content, methods, and techniques of organizing the educational process in the discipline "Technology" in primary school;
- to develop the ability to plan, conduct and analyze lessons at school;
- development of students' pedagogical and artistic-creative abilities through their own creativity and integration of various types of artistic activity.

**The place of the discipline in the structure of the BPEP:** implemented within the framework the variable part (the part formed by the participants in educational relations) of block B1. Disciplines (modules).

### Planned learning outcomes for the course:

Code competencies	Indicators of achievement of competencies	Planned learning outcomes by discipline
PCS-1	<b>To know:</b> <ul style="list-style-type: none"> <li>- fundamentals of private teaching methods in primary school disciplines;</li> <li>- characteristics of personal, meta-subject and subject results of students in the context of teaching primary school disciplines (according to the Federal State Educational Standard and the model curriculum);</li> <li>- modern educational technologies and methodological principles of their selection;</li> <li>- methods of monitoring, evaluating and correcting the results of learning in primary school disciplines.</li> </ul>	<b>Knows:</b> <ul style="list-style-type: none"> <li>- fundamentals of teaching methods in the discipline "Technology" in primary school;</li> <li>- characteristics of personal, meta-subject and subject results of students in the context of teaching the discipline "Technology" in primary school;</li> <li>- modern educational technologies and methodological principles of their selection;</li> <li>- methods of monitoring, assessing and correcting learning outcomes in the discipline "Technology" in primary school.</li> </ul>
	<b>To be able to:</b> <ul style="list-style-type: none"> <li>- design a work program for primary school subjects;</li> <li>- design and implement various forms of training and organization of extracurricular activities for students in primary school disciplines, ensuring the achievement of meta-subject, subject and personal results .</li> </ul>	<b>Is able to</b> <ul style="list-style-type: none"> <li>- design a work program for the discipline "Technology" for primary school;</li> <li>- design and implement various forms of training and organization of extracurricular activities for students in the discipline "Technology" in primary school.</li> </ul>
	<b>To possess:</b> <ul style="list-style-type: none"> <li>- methods of teaching in primary school disciplines and the methodology for their selection, taking into account the specifics of the content of the educational material, age and educational needs of the students;</li> <li>- modern educational technologies that en-</li> </ul>	<b>Possesses:</b> <ul style="list-style-type: none"> <li>- methods and methodology of teaching the discipline "Technology" in primary school;</li> <li>- methods of monitoring, evaluating and correcting learning outcomes in the discipline "Technology" in primary school.</li> </ul>

	<p>sure the achievement of meta-subject, subject and personal results of students;</p> <ul style="list-style-type: none"> <li>- methods of monitoring, evaluating and correcting learning outcomes in primary school subjects.</li> </ul>	ry school.
<b>PCS-2</b>	<p><b>To know:</b></p> <ul style="list-style-type: none"> <li>- patterns, principles and levels of formation and implementation of educational content in primary school disciplines;</li> <li>- structure, composition and didactic units of content of school subjects in primary school disciplines.</li> </ul>	<p><b>Knows:</b></p> <ul style="list-style-type: none"> <li>- patterns, principles and levels of formation and implementation of educational content in the discipline "Technology" in primary school;</li> <li>- the structure, composition and content of the subject "Technology" for primary school.</li> </ul>
	<p><b>To be able to:</b></p> <ul style="list-style-type: none"> <li>- select educational content for implementation in various forms of teaching primary school disciplines in accordance with didactic goals, age characteristics of students and the requirements of the Federal State Educational Standard of General Education.</li> </ul>	<p><b>Is able to:</b></p> <ul style="list-style-type: none"> <li>- carry out the selection of educational content for the discipline "Technology" in primary school in accordance with the requirements of the Federal State Educational Standard.</li> </ul>
	<p><b>To possess:</b></p> <ul style="list-style-type: none"> <li>- the subject content of primary school disciplines;</li> <li>- the ability to select variable content taking into account the relationship between the classroom and extracurricular forms of teaching primary school disciplines.</li> </ul>	<p><b>Possesses:</b></p> <ul style="list-style-type: none"> <li>- subject content of the discipline "Technology" in primary school;</li> <li>- skills in selecting variable content taking into account the relationship between class and extracurricular forms of education in the discipline "Technology" in primary school.</li> </ul>

## II. CONTENT AND SCOPE OF THE DISCIPLINE

indicating the number of hours allocated for contact work of students with the teacher (by type of class) and for independent work

### Full-time education

Item No.	Name of sections and topics	Total	Classroom lessons			Indep.work
			LEC	PRACT	LAB	
	<b>Section 1.</b> "General issues of methodology of teaching technology in primary grades"		<b>8</b>	<b>16</b>		<b>12</b>
1.	Topic 1. "The main tasks and content of the subject area "Technology" in the modern system of primary education"	6	2	2		2
2.	Topic 2. "Equipping the technology course in pri-	7	1	4		2

	mary school"					
3.	Topic 3. " Development of drawing and graphic literacy "	7	1	4		2
4.	Topic 4. "Analysis of modern technology programs"	7	2	2		3
5.	Topic 5. " Structure and content of technology lessons in primary school "	9	2	4		3
	<b>Section 2. " Special issues of technology teaching methods "</b>		<b>8</b>	<b>16</b>		<b>12</b>
6.	Topic 6. "Methodology of working with paper in elementary grades"	9	2	4		3
7.	Topic 7. " Features of organizing work with paper and cardboard"	9	2	4		3
8.	Topic 8. "Plasticine in teaching artistic work"	9	2	4		3
9.	Topic 9. "Elements of designing various models and layouts"	9	2	4		3
10.	<i>Credit</i>					
11.	<i>Total for 5th semester</i>	<b>72</b>	<b>16</b>	<b>32</b>		<b>24</b>
	<b>TOTAL:</b>	<b>72</b>	<b>16</b>	<b>32</b>		<b>24</b>

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

### **Part-time education (not implemented)**

## **III. EVALUATION MATERIALS FOR CONDUCTING CURRENT AND INTER-IM CERTIFICATION OF STUDENTS IN THE DISCIPLINE**

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

### **Standard version of the test paper**

In traditional form:

#### **Option 1**

1. The main objectives and content of the subject "Technology" in primary education.
2. Organization of students' workplaces.
3. Compile a fragment of a 1st grade lesson.

#### **Option 2**

1. Technology lessons and their features.
2. Rules for reading graphic images.
3. Compile a fragment of a 2nd grade lesson.

In the test form:

**1. Place the paper making machine parts in the correct order.**

1. pressing part
2. finishing part
3. preparatory part
4. drying part
5. mesh part.

**2. Printing paper is characterized by the following properties. (Choose the correct answer).**

1. Low absorbency, high smoothness.
2. Durable, rough, never polished.
3. Waterproof, ink-absorbent.

**3. Choose the correct answer.**

The fold is indicated by a line:

1. Tolstoy all the way.
2. Thin and solid.
3. Dash-dotted with two dots.
4. Dash-dotted with one dot.

**4. Select from the listed definitions the one that fits the term "contour".**

1. A strip around an image, a narrow strip of fabric along the edge or seam of a garment.
2. The relationship of all tones and colors in a multi-colored work of art (painting, engraving, ornament).
3. The external outline of an object, detail. This is a line that conveys the outline of an object.

**5. Specify marking and measuring instruments.**

1. Thimble. 2. Glue brush. 3. Ruler. 4. Needle. 5. Square. 6. Screwdriver.
7. Compass. 8. Awl. 9. Scissors. 10. Pencil. 11. Gimlet. 12. Measuring tape.

**6. Choose the correct answer.**

When pasting paper onto cardboard, glue is applied:

1. On cardboard.
2. On paper.
3. On the lining material.

**7. Select the tools and equipment you need to work with paper and cardboard.**

1. Screwdriver. 2. Ruler. 3. Set square. 4. Compass. 5. Wrench. 6. Scissors. 7. Stationery knife. 8. Awl.
9. Iron. 10. Folding ruler. 11. Hoop. 12. Brush for glue and paints.

**8. Select from the listed definitions the one that fits the term "markup".**

1. A graphic representation of an object, made using drawing instruments to a certain scale, with precise dimensions.
2. Proportionality, correspondence in the arrangement of details, parts when superimposed on each other.
3. Application of all main and auxiliary lines to any material using drawing and measuring instruments or by eye.

**9. Establish the technological sequence for performing the application.**

1. Cut out the parts .
2. Lubricate the parts with glue.
3. Dry the product under a press.
4. Choose a plot.
5. Glue the parts.
6. Place the applique details on the background.
7. Choose a background and select paper.
8. Rub with a clean sheet of paper.
9. Mark out the applique details.

**10. Select the term that matches the definition.**

An ancient Japanese art of making paper products by folding and folding.

1. Applique. 2. Mosaic. 3. Florism. 4. Origami. 5. Papier-mâché. 6. Construction. 7. Embossing.

**11. Choose the correct answer.**

The most rational method for marking a square:

1. By bending.
2. According to the template.
3. Along the line.
4. On the square.

**12. Mark the correct statements.**

When marking paper, you should:

1. Mark the material from the wrong side.
2. Mark the material on the front side.
3. Place the details on paper randomly and freely.
4. Mark the parts as close to the edge of the sheet as possible.
5. Place the parts close to each other.

Marking of parts to be performed

**Sample topics for abstracts**

1. The role of subject practical activities in the teaching, education and development of primary school students.
2. Developing students' creative abilities in technology lessons in the process of processing cardboard.
3. Formation of design skills in primary school students.
4. Working with paper as a means of artistic and aesthetic development of primary school students.
5. Using verbal methods in technology lessons in elementary grades.
6. Development of drawing and graphic literacy skills in primary school students.
7. Creation of paper applique compositions as a means of aesthetic development of primary school students.
8. Formation of work skills in technology lessons.
9. Creative development of a junior schoolchild in the process of artistic processing of plastic materials.
10. Project activities of primary school students in technology lessons.
11. The method of observation and experimental work in technology lessons as a means of developing research skills in primary school students.
12. Designing technical models as a means of developing the creative personality of primary school students.
13. Studying folk cultural traditions in the process of conducting technology lessons.
14. Implementation of interdisciplinary connections in technology lessons.

Interim assessment of students is carried out in the form of a test using the following assessment materials: a list of questions for the test.

**Questions for the test**

**(5th semester full-time education )**

1. The main objectives and content of the subject "Technology" in primary education.
2. Technology lessons and their features.
3. Types of lessons, their structure.
4. Planning and conducting technology lessons. Preliminary and immediate preparation of the teacher for the lesson.
5. The structure of various technology lessons in primary school. The content of each stage of the lesson.
6. Organization of students' workplaces. Basic techniques and rules for working with cutting and piercing tools.

7. Concepts and types of technical documentation.
8. Rules for reading graphic images.
9. Taking into account the peculiarities of paper properties. Experiments and observations on determining the direction of fibers.
10. Training in marking techniques using templates and drawing and measuring instruments. Saving materials.
11. Rules for bending and folding paper. Folding. Origami in technology lessons.
12. Paper cutting techniques. Tools and devices.
13. Methods of joining parts of paper products. Rules for performing gluing work.
14. Classification of application types. Sequence of execution.
15. Techniques for symmetrical and asymmetrical cutting of parts as methods of paper processing (the concept of symmetry, cutting rules, application).
16. Introduction to flat cardboard. Methods of edging cardboard. Tools and devices (names of tools and their purpose).
17. Techniques for working with volumetric cardboard (concepts of scanning and pattern, rational use of material when cutting it).
18. The structure of a book and the purpose of its components. Methods of stitching a book block.
19. Plasticine, its properties. Tools and devices. Techniques for modeling various types of reliefs (concepts and techniques).
20. Construction of floating models. Observations and experiments to determine the buoyancy of various materials.

## **IV. LIST OF REFERENCES REQUIRED FOR MASTERING THE DISCIPLINE**

### **4.1. Main literature**

- 1 Lutseva, E.A. Technology: 1–4th grades: a methodological guide to the line of textbooks of the “School of Russia” system / E. A. Lutseva, T. P. Zueva. - Moscow: Prosveshchenie, 2023. - 192 p. ISBN 978-5-09-110181-2.
- 2 Neretina, T. G. Methods of Teaching Technology Lessons in Primary School: a tutorial: [16+] / T. G. Neretina. - Moscow; Berlin: Direct-Media, 2020. - 129 p. - Access mode: by subscription. - URL: <https://biblioclub.ru/index.php?page=book&id=571487> . - Bibliography: p. 89. - ISBN 978-5-4499-0497-3. - DOI 10.23681/571487. - Text: electronic.

### **4.2 Additional literature**

1. Alekseenko, E.V. Technology lesson in primary school. Organizational and methodological support of the educational process: teaching aid / E.V. Alekseenko. - Moscow: INFRA-M, 2023. - 202 p.
2. Konysheva, N.M. Theory and Methods of Teaching Technology in Primary School: a tutorial / N.M. Konysheva. - Smolensk: Association XXI century, 2006. - 294 p.: ill., table, diagram. - (Pedagogical education). - Access mode: by subscription. - URL: <http://biblioclub.ru/index.php?page=book&id=55786> . - ISBN 5893081943. - Text: electronic.

## **V. LIST OF RESOURCES OF THE INFORMATION AND TELECOMMUNICATION NETWORK "INTERNET" NECESSARY FOR MASTERING THE DISCIPLINE**

No. PP	Link to information resource	Name of the development in electronic form	Availability
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1.	<a href="https://infourok.ru/">https://infourok.ru/</a>	<b>Infourok:</b> educational internet project of Russia. Includes: lesson plans, presentations, tests, video lessons and other materials on school curriculum subjects.	Free access
2.	<a href="http://edu.ru/">http://edu.ru/</a>	<b>Russian Education: Federal Portal. Includes</b> links to portals and websites of educational institutions; state educational standards; regulatory documents; catalog of excursions and educational programs.	Free access
3.	<a href="http://window.edu.ru/">http://window.edu.ru/</a>	<b>The information system "Single Window of Access to Educational Resources"</b> 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.	<a href="https://www.gumer.info/">https://www.gumer.info/</a>	<b>Gumer Library:</b> Provides free access to 5,000 books and articles on the humanities	Free access
5.	<a href="http://fcior.edu.ru/">http://fcior.edu.ru/</a>	<b>The Federal Center for Information and Educational Resources (FCIER)</b> 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.	<a href="http://www.biblioclub.ru">http://www.biblioclub.ru</a>	Electronic library system (EBS) University Library Online	Registration via any university computer. In the future, unlimited individual access is provided from any point where there is access to the Internet.
2.	<a href="http://www.garant.ru">www.garant.ru</a>	Information and legal portal	Free access
3.	<a href="http://www.elibrary.ru">www.elibrary.ru</a>	Russian information portal in the field of science, technology, medicine and education	Free access
4.	<a href="http://www.consultant.ru">www.consultant.ru</a>	Russian computer reference and legal system	Free access
5.	<a href="https://data.gov.ru/">https://data.gov.ru/</a>	Open Data Portal Russian Federation	Free access



6.	<a href="http://fgosvo.ru/">http://fgosvo.ru/</a>	Portal of Federal State Educational Standards of Higher Education	Free access
7.	<a href="https://fgos.ru/">https://fgos.ru/</a>	Federal state educational standards (for all levels of education)	Free access

## **VII. LICENSED AND FREELY DISTRIBUTABLE SOFTWARE**

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

- Microsoft Windows;
- Microsoft Office;
- LibreOffice and etc.

## **VIII . EQUIPMENT AND TECHNICAL TEACHING AIDS NECESSARY 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 carried out in rooms equipped with computers with the ability to connect to the Internet and provide access to the electronic information and educational environment of the university.