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**Federal State Autonomous Educational Institution of Higher Education  
"Peoples' Friendship University of Russia named after Patrice Lumumba"**

**Academy of Engineering**

(name of the main educational unit (MEU) that developed the educational program of higher education)

## **WORKING PROGRAM OF THE DISCIPLINE**

### **PSYCHOLOGY AND PEDAGOGY**

(name of discipline/module)

**Recommended for the field of study/specialty:**

### **27.03.04 CONTROL IN TECHNICAL SYSTEMS**

(code and name of the training area/specialty)

**The discipline is mastered within the framework of the implementation of the main professional educational program of higher education (EP HE):**

### **DATA SCIENCE AND SPACE SYSTEMS**

(name (profile/specialization) of the educational institution of higher education)

## 1. THE GOAL OF MASTERING THE DISCIPLINE

The discipline "Psychology and Pedagogy" is part of the bachelor's program "Data Science and Space Systems" in the direction 27.03.04 "Control in Technical Systems" and is studied in the 4th semester of the 2nd year. The discipline is implemented by the Department of Psychology and Pedagogy. The discipline consists of 2 sections and 9 topics and is aimed at studying basic knowledge about psychological theories and pedagogical approaches, as well as the application of this knowledge to analyze specific situations that arise in the process of communication and interaction with other people, both in the professional and personal spheres.

The purpose of mastering the discipline is to form in students a holistic understanding of the patterns of mental development and human learning at different stages of life, as well as the principles of effective interaction in the educational environment. Correct mastering of the discipline should contribute to the formation of a comprehensively developed personality, capable of effective self-realization, constructive interaction with others and successful adaptation to the changing conditions of the modern world.

## 2. REQUIREMENTS TO THE RESULTS OF MASTERING THE DISCIPLINE

Mastering the discipline "Psychology and Pedagogy" is aimed at developing the following competencies (parts of competencies) in students:

*Table 2.1. List of competencies developed in students while mastering the discipline (results of mastering the discipline)*

Cipher	Competence	Indicators of Competence Achievement (within the framework of this discipline)
UC-3	Able to interact socially and fulfill his/her role in a team	UC-3.1 Defines his role in the team based on the strategy of cooperation to achieve the set goal; UC-3.2 Formulates and takes into account in its activities the behavioral characteristics of groups of people, identified depending on the set goal; UC-3.3 Analyzes the possible consequences of personal actions and plans his actions to achieve a given result; UC-3.4 Exchanges information, knowledge and experience with team members; UC-3.5 Argues his point of view regarding the use of ideas of other team members to achieve the set goal; UC-3.6 Participates in teamwork to carry out assignments;
UC-6	Able to manage their time, build and implement a trajectory of self-development based on the principles of lifelong education	UC-6.1 Controls the amount of time spent on specific activities; UC-6.2 Develops tools and methods for time control when completing specific tasks, projects, and goals; UC-6.3 Analyzes his resources and their limits (personal, situational, time, etc.) for the successful completion of the assigned task; UC-6.4 Finds and uses sources of additional information to improve the level of general and professional knowledge; UC-6.5 Analyzes the main opportunities and tools of continuous education in relation to one's own interests and needs, taking into account conditions, resources, personal capabilities, stages of career growth, time perspective for the development of activities and the requirements of the labor market; UC-6.6 Defines the tasks of self-development, goals and priorities of professional growth; UC-6.7 Distributes tasks into long-, medium- and short-term ones with justification of their relevance and analysis of resources for their implementation;

<b>Cipher</b>	<b>Competence</b>	<b>Indicators of Competence Achievement</b> (within the framework of this discipline)
UC-9	Able to use basic defectological knowledge in social and professional spheres	UC-9.1 Has an understanding of the principles of non-discriminatory interaction in communication in various spheres of life, taking into account the socio-psychological characteristics of persons with disabilities; UC-9.2 Plans and carries out professional activities with persons with disabilities or limited health capabilities; UC-9.3 Interacts with persons with limited health capabilities or disabilities in the social and professional spheres;

### **3. PLACE OF THE DISCIPLINE IN THE STRUCTURE OF THE EDUCATIONAL EDUCATION**

Discipline "Psychology and Pedagogy" refers to the mandatory part of block 1 "Disciplines (modules)" of the educational program of higher education.

As part of the higher education program, students also master other disciplines and/or practices that contribute to the achievement of the planned results of mastering the discipline "Psychology and Pedagogy".

*Table 3.1. List of components of the educational program of higher education that contribute to the achievement of the planned results of mastering the discipline*

<b>Cipher</b>	<b>Name of competence</b>	<b>Previous courses/modules, practices*</b>	<b>Subsequent disciplines/modules, practices*</b>
UC-9	Able to use basic defectological knowledge in social and professional spheres	Basic Military Training. Life Safety;	Jurisprudence; Research work / Scientific research work; Undergraduate Training;
UC-3	Able to interact socially and fulfill his/her role in a team	Fundamentals of Project Activities;	Research work / Scientific research work; Technological Training; Undergraduate Training;
UC-6	Able to manage their time, build and implement a trajectory of self-development based on the principles of lifelong education	Physical Education; History of Russia; Introduction to the Specialty; Fundamentals of Project Activities; Fundamentals of Engineering Economics and Control;	Research work / Scientific research work; Technological Training; Undergraduate Training; Philosophy;

\* - filled in in accordance with the competency matrix and the SUP EP HE

\*\* - elective disciplines/practices

#### 4. SCOPE OF THE DISCIPLINE AND TYPES OF STUDY WORK

The total workload of the discipline “Psychology and Pedagogy” is “2” credit units.

*Table 4.1. Types of educational work by periods of mastering the educational program of higher education for full-time education.*

Type of academic work	TOTAL,ac.h.		Semester(s)
			4
<i>Contact work, academic hours</i>	34		34
Lectures (LC)	17		17
Laboratory work (LW)	0		0
Practical/seminar classes (SC)	17		17
<i>Independent work of students, academic hours</i>	38		38
<i>Control (exam/test with assessment), academic hours</i>	0		0
<b>General complexity of the discipline</b>	<b>ac.h.</b>	<b>72</b>	<b>72</b>
	<b>credit.ed.</b>	<b>2</b>	<b>2</b>

## 5. CONTENT OF THE DISCIPLINE

Table 5.1. Contents of the discipline (module) by types of academic work

Section number	Name of the discipline section	Section Contents (Topics)		Type of academic work*
Section 1	Psychology	1.1	Psychology as a science and practice. Psyche and consciousness	LC, SC
		1.2	Mental processes and states	LC, SC
		1.3	Personality: structure and development	LC, SC
		1.4	Psychology of communication and interpersonal relations. Psychology of groups	LC, SC
		1.5	Self-development in professional activities	LC, SC
Section 2	Pedagogy	2.1	Pedagogy as a science. Education as a system and process	LC, SC
		2.2	Didactic foundations of education	LC, SC
		2.3	Education and mentoring	LC, SC
		2.4	Psychological and pedagogical support for people with disabilities	LC, SC

\* - filled in only for FULL-TIME education: LC – lectures; LW – laboratory work; PW – practical/seminar classes.

## 6. LOGISTIC AND TECHNICAL SUPPORT OF DISCIPLINE

Table 6.1. Material and technical support of the discipline

Audience type	Equipping the auditorium	Specialized educational/laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means for multimedia presentations.	Classroom for lecture-type classes, practical classes, group and individual consultations, ongoing monitoring and midterm assessment. A set of specialized furniture; technical means
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with a set of specialized furniture and technical means for multimedia presentations.	Classroom for lecture-type classes, practical classes, group and individual consultations, ongoing monitoring and midterm assessment. A set of specialized furniture; technical means
For independent work	A classroom for independent work of students (can be used for conducting seminars and consultations), equipped with a set of specialized furniture and computers with access to the Electronic Information System.	Classroom for lecture-type classes, practical classes, group and individual consultations, ongoing monitoring and midterm assessment. A set of

<b>Audience type</b>	<b>Equipping the auditorium</b>	<b>Specialized educational/laboratory equipment, software and materials for mastering the discipline (if necessary)</b>
		specialized furniture; technical means

\* - the audience for independent work of students MUST be indicated!

## **7. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE**

### *Main literature:*

1. Borozdina, G. V. Psychology and Pedagogy: a textbook for universities / G. V. Borozdina. - 2nd ed., corrected. and additional. - Moscow: Yurait Publishing House, 2025. - 477 p. - (Higher education). -ISBN 978-5-9916-2744-3. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/559693>

2. Gurevich, P. S. Psychology and Pedagogy: Textbook and Workshop for Universities / P. S. Gurevich. - 3rd ed., revised and enlarged. - Moscow: Yurait Publishing House, 2025. - 429 p. - (Higher Education). -ISBN 978-5-534-04531-4. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/560281>

3. Krys'ko, V. G. Psychology and Pedagogy: a textbook for bachelors for universities / V. G. Krys'ko. - Moscow: Yurait Publishing House, 2025. - 471 p. - (Higher education). -ISBN 978-5-534-11849-0. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/559956>

### *Further reading:*

1. Blonsky, P. P. Psychology and Pedagogy. Selected Works / P. P. Blonsky. - 2nd ed., reprinted. - Moscow: Yurait Publishing House, 2025. - 184 p. - (Anthology of Thought). -ISBN 978-5-534-12064-6. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/562018>

2. Dewey, D. Psychology and Pedagogy of Thinking / D. Dewey; translator N. M. Nikolskaya. - Moscow: Yurait Publishing House, 2025. - 166 p. - (Anthology of Thought). - ISBN 978-5-534-14265-5. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/567889>

3. Psychology: a textbook and practical training for universities / edited by A. S. ObUCHov. - 2nd ed., revised and enlarged. - Moscow: Yurait Publishing House, 2025. - 404 p. - (Higher education). -ISBN 978-5-534-00631-5. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/559809>

4. Smirnov, S. D. Psychology and pedagogy in higher education: a textbook for universities / S. D. Smirnov. - 3rd ed., revised and enlarged. - Moscow: Yurait Publishing House, 2025. - 352 p. - (Higher education). -ISBN 978-5-534-08294-4. — Text: electronic // Educational platform Urait [site]. — URL: <https://urait.ru/bcode/561580>

### *Resources of the information and telecommunications network "Internet":*

1. RUDN University EBS and third-party EBSs to which university students have access on the basis of concluded agreements

- Electronic library system of RUDN - ELS RUDN

<https://mega.rudn.ru/MegaPro/Web>

- Electronic library system "University library online" <http://www.biblioclub.ru>

- EBS Yurait <http://www.biblio-online.ru>

- Electronic Library System "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)

- EBS "Znaniy" <https://znaniy.ru/>

2. Databases and search engines

- Sage <https://journals.sagepub.com/>

- Springer Nature Link <https://link.springer.com/>
- Wiley Journal Database <https://onlinelibrary.wiley.com/>
- Scientometric database Lens.org <https://www.lens.org>

*Educational and methodological materials for independent work of students in mastering a discipline/module\*:*

1. A course of lectures on the subject "Psychology and Pedagogy".

\* - all educational and methodological materials for independent work of students are posted in accordance with the current procedure on the discipline page in TUIS!

## DEVELOPERS:

Professor of the Department of Psychology and Pedagogy <i>Position, Department</i>	<hr/> <i>Signature</i>	Ershova Regina Vyacheslavovna <i>Surname I.O.</i>
Professor of the Department of Psychology and Pedagogy <i>Position, Department</i>	<hr/> <i>Signature</i>	Kazarenkov Vyacheslav Ilyich <i>Surname I.O.</i>
Professor of the Department of Psychology and Pedagogy <i>Position, Department</i>	<hr/> <i>Signature</i>	Stepnova Lyudmila Anatolyevna <i>Surname I.O.</i>
Associate Professor of the Department of Psychology and Pedagogy <i>Position, Department</i>	<hr/> <i>Signature</i>	Kameneva Galina Nikolaevna <i>Surname I.O.</i>
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Assistant Professor, Department  
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*Position, Department*

*Signature*

Choi Ekaterina  
Alexandrovna

*Surname I.O.*

**HEAD OF THE  
DEPARTMENT:**

Head of Department

*Position of the Department*

*Signature*

Bashkin Evgeniy  
Bronislavovich

*Surname I.O.*

**HEAD OF THE EP HE:**

Head of the Department of  
Mechanics and Control Processes

*Position, Department*

*Signature*

Razumny Yuri Nikolaevich

*Surname I.O.*