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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

PHILOSOPHY

(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 "Philosophy" 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 7th semester of the 4th year. The discipline is implemented by the Department of Ontology and Theory of Knowledge. The discipline consists of 3 sections and 9 topics and is aimed at studying the universal connections of the system of relations "world and man", including the history of culture and science, ethics and theory of aesthetics.

The purpose of mastering the discipline is to form in students the basic provisions of the scientific picture of the world, the methodology of scientific research practice and the problems of modern science and philosophy. As a result of the foundation of the discipline, students should have a critical and objective understanding of modern trends and the significance of man in the historical perspective of world culture.

2. REQUIREMENTS TO THE RESULTS OF MASTERING THE DISCIPLINE

Mastering the discipline "Philosophy" 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-1	Able to search, critically analyze and synthesize information, apply a systematic approach to solving assigned tasks	UC-1.1 Analyzes the task, identifying its basic components; UC-1.2 Defines and ranks the information required to solve the given problem; UC-1.3 Searches for information to solve the assigned task using various types of requests; UC-1.4 Works with scientific texts, distinguishes facts from opinions, interpretations, assessments and substantiates his conclusions using the philosophical conceptual apparatus; UC-1.5 Analyzes and contextually processes information to solve assigned tasks while forming his own opinions and judgments; UC-1.6 Suggests options for solving the problem, analyzes the possible consequences of their use; UC-1.7 Analyzes ways of solving problems of ideological, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context;
UC-5	Able to perceive the intercultural diversity of society in socio-historical, ethical and philosophical contexts	UC-5.1 Interprets the history of Russia in the context of world historical development; UC-5.2 Finds and uses information about the cultural characteristics and traditions of various social groups in social and professional communication; UC-5.3 Takes into account, in social and professional communication on a given topic, the historical heritage and socio-cultural traditions of various social groups, ethnic groups and faiths, including world religions, philosophical and ethical teachings; UC-5.4 Collects information on a given topic, taking into account the ethnic groups and religions most widely represented at the research sites; UC-5.5 Justifies the specifics of project and team activities with representatives of other ethnic groups and (or) faiths; UC-5.6 Adheres to the principles of non-discriminatory interaction in personal and mass communication in order to fulfill professional tasks and strengthen social integration;

Cipher	Competence	Indicators of Competence Achievement (within the framework of this discipline)
UC-6	Able to manage their time, build and implement a trajectory of self-development based on the principles of lifelong education	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;

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

Discipline "Philosophy" 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 "Philosophy".

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

Cipher	Name of competence	Previous courses/modules, practices*	Subsequent disciplines/modules, practices*
UC-5	Able to perceive the intercultural diversity of society in socio-historical, ethical and philosophical contexts	Research work / Scientific research work; History of Russia; <i>Business Ethics**</i> ; <i>Sociology**</i> ; Fundamentals of Russian Statehood; History of Religions in Russia; <i>Cultural Studies**</i> ; <i>Political Science**</i> ;	Undergraduate Training;
UC-1	Able to search, critically analyze and synthesize information, apply a systematic approach to solving assigned tasks	Research work / Scientific research work; Technological Training; History of Russia; Jurisprudence; Introduction to the Specialty; <i>Business Ethics**</i> ; <i>Sociology**</i> ; <i>Cultural Studies**</i> ;	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	Research work / Scientific research work; Technological Training; Physical Education; History of Russia; Introduction to the Specialty; Fundamentals of Project Activities; Fundamentals of Engineering Economics and Control;	Technological Training; Undergraduate Training;

Cipher	Name of competence	Previous courses/modules, practices*	Subsequent disciplines/modules, practices*
		Psychology and Pedagogy; Fundamentals of Artificial Intelligence;	

* - 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 "Philosophy" 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)
			7
<i>Contact work, academic hours</i>	36		36
Lectures (LC)	18		18
Laboratory work (LW)	0		0
Practical/seminar classes (SC)	18		18
<i>Independent work of students, academic hours</i>	36		36
<i>Control (exam/test with assessment), academic hours</i>	0		0
General complexity of the discipline	ac.h.	72	72
	credit.ed.	2	2

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	The nature of philosophical knowledge	1.1	Philosophy in the world of spiritual culture: the main subject of philosophy	OK
		1.2	Philosophy and Art: Aesthetics of the World Around Us	LC, SC
		1.3	Philosophy and science	LC, SC
Section 2	History and philosophy of science	2.1	Ancient philosophy and the development of rational knowledge	OK
		2.2	Medieval Philosophy and Systems of Knowledge of the New Age	SC
		2.3	Modern philosophy: directions, problems and tendencies	LC, SC
Section 3	Problems of Philosophy: Man and the World in the Information Society	3.1	Philosophy and social and humanitarian knowledge: models of reality	LC, SC
		3.2	Modern problems of socio-economic growth: philosophical foundations of science	OK
		3.3	Contemporary Problems of Philosophy of Science and Global Challenges	SC

* - filled in only for FULL-TIME education: LC – lectures; LW – laboratory work; SC – 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.	
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.	
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.	

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

7. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE

Main literature:

1. Kolesnikov A.S. History of Philosophy: textbook and practical course for universities. – M.: Yurait, 2023.
2. Lebedev S.A. Philosophy of Science: a textbook for universities. - 2nd ed., revised and enlarged. - M.: Yurait, 2024.
3. Mironov V.V. Philosophy with illustrations: textbook. - M.: RG-Press, 2020.
4. Ontology and theory of knowledge in 2 volumes. Volume 2: Fundamentals of the theory of knowledge / S.S. Gusev, B. Lipsky [and others]. – M.: Yurait, 2025
5. Kanke V.A. Philosophical problems of science and technology. - M.: Yurait, 2025.

Further reading:

1. Man. Science. Civilization. – M.: Canon+, 2004. – 816 p.
2. Spirkin A.G. Philosophy in 2 parts. Part 1: textbook for universities. - M.: Yurait, 2023. – 402 p.
3. Aristotle. Metaphysics. Translations. Commentaries. Interpretations. – St. Petersburg: Aletheia, 2002. – 832 p.
4. Kanke V.A. History, philosophy and methodology of natural sciences. - M.: Yurait, 2022.
5. Bakhtiyarov K.I. Logic and psychogenetics from the point of view of computer science: A bestseller in the spirit of Lewis Carroll. – M.: Lenand, 2014. – 208 p.
6. Beck W. Risk Society. Towards a Different Modernity. – M.: Progress-Tradition, 2000. – 384 p.
7. Bell D. Social framework of the information society // New technocratic wave in the West. – M.: Progress, 1986. – P. 330-342.
8. Berdyaev N.A. Russian idea. – St. Petersburg: AzbUCa, 2016. – 320 p.
9. Ivanov D.V. Virtualization of society. Version 2.0. – St. Petersburg: Petersburg Oriental Studies, 2002. – 224 p.
10. Cognitive approach: scientific monograph / Ed. Academician of the Russian Academy of Sciences V.A. Lektorsky. – M.: “Canon+”, 2012. – 464 p.
11. Lektorsky V.A. Philosophy, knowledge, culture. – M.: “Canon+”, 2012. – 384 p.
12. Luhmann N. Media communication (Society of society. PartIII). – M.: Logos, 2005. – 280 p.
13. Marcuse G. One-dimensional man. – M.: Ast, 2009. – 331 p.
14. Matyushova M.P. History of Culture from Antiquity to the Renaissance: a textbook. – M.: RUDN University Press, 2017. – 119 p.
15. Mechnikov I.I. Etudes on the nature of man. – St. Petersburg: AzbUCa, 2016. – 320 p.
16. Petkova S.M. Handbook of aesthetics. – Rostov n / D, 2012. – 349 p.
17. Plato. Apology of Socrates // Works in 4 volumes. Vol. 1 – St. Petersburg: Publishing house of St. Petersburg University, 2007.2006. – P. 83-116.
18. Plato. Works in 4 volumes. Vol. 2. – St. Petersburg: Publishing house of St. Petersburg University, 2007. – 626 p.
19. Popper K. Assumptions and Refutations. The Growth of Scientific Knowledge. – M.: Ast, 2008. – 640 p.
20. Russell B. Selected Works. – Novosibirsk: Siberian University Press, 2009. – 260 p.
21. Rubinstein S.L. Being and Consciousness. – SPb.: 2012. – 288 p.
22. Skvortsov A.A. Ethics: textbook. – M.: Yurait, 2011. – 306 p.
23. StepinBC History and philosophy of science: textbook. – M.: Academic project, 2011. – 423 p.
24. Stepin V.S. Theoretical knowledge. – M.: Progress-Tradition, 2003. – 744 p.
25. Tetyuev L.I. Kant and modern practical philosophy. – Saratov: IC Science, 2018. – 56 p.
26. Tolstoy L.N. About life. – M.: Publishing house "E", 2017. – 320 p.

27. Feyerabend P. Selected works on the methodology of science. – M.: Progress, 1986. – 542 p.
 28. Habermas J. Moral consciousness and communicative action. – St. Petersburg: NaUCa, 2001. – 382 p.
 29. Chalmers D. The Conscious Mind: In Search of a Fundamental Theory. – M.: KD “Librokom”, 2013. – 512 p.
 30. Schrödinger E. What is life? - M.: Ast, 2022. - 288 p.
 31. Vvedensky A.I. Experience of constructing a theory of matter based on the principles of critical philosophy. – M.:URSS, 2020. – 352 p.
 32. Sokolova D.M. Philosophy of Culture: a textbook for universities. - 2nd ed., suppl. - M.: Yurait, 2024. -- 106 p.
 33. Popper K. All people are philosophers. How I understand philosophy. Immanuel Kant is a philosopher of enlightenment. – M.: Lenand, 2022.
 34. Sartre J.-P. Problems of Method. – M.: Ast, 2023.
 35. Ushakov E.V. Philosophy and methodology of science. – M.: Yurayt, 2025
- 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
 - EBS "Znanium" <https://znanium.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 "Philosophy".

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

DEVELOPER:

Senior Lecturer

Position, Department

Signature

Vladimirov Pavel
Anatolievich

Surname I.O.

**HEAD OF THE
DEPARTMENT:**

Head of Department

Position of the Department

Signature

Belov Vladimir Nikolaevich

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HEAD OF THE EP HE:

Head of Department

Position, Department

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