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**Federal State Autonomous Educational establishment of higher education
RUDN-University
Engineering Academy**

PROGRAMM PHILOSOPHY OF EDUCATION AND SCIENCE

The program track 44.04.02 PSYCHOLOGY AND PEDAGOGY

**Educational program of higher education
PEDAGOGY IN ENGINEERING**

1. The aim

The purpose of mastering the discipline is to gain knowledge, skills and experience in the field of innovative tools of supply chain management at innovative enterprises, characterizing the stages of competency formation and ensuring the achievement of the planned results of mastering the educational program.

2. Requirements to the outcome of the course:

The following competences are formed in the study process.

Table 2.1. A list of formed competences

A code of a competence	A competence	Indicators of achieving a competence
UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	UC-1.1 Analyzes the problem situation and decomposes it into separate tasks UC-1.2 Forms possible solutions to problems
UC-2	Able to manage a project at all stages of its life cycle	UC-2.1 Demonstrates knowledge of the characteristics of all stages of the project life cycle UC-2.2. Participates in project management at all stages of the life cycle
UC-3	Able to organize and manage the work of the team, developing a team strategy to achieve the goal	UC-3.1 Demonstrates knowledge of teamwork principles UC-3.2 Leads team members to solve assigned tasks

3. Place of the course in the structure of GEP: Basic part- the first block of EP HE.

Table 3.1. A list of EP HE components, bringing forward planned results achievement

A code of a competence	A competence	Preceding courses	Following courses
UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy		Management of innovative activity at the enterprise
UC-2	Able to manage a project at all stages of its life cycle		Technological Entrepreneurship Management of innovative activities in production Cultural-historical and activity approach in psychology and education
UC-3	Able to organize and manage the work of the team, developing a team strategy to achieve the goal		Planning and conducting mixed and online courses Educational program design Technological

			Entrepreneurship Management of innovative activities in production
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4. Workload of the course and forms of study work

General workload of the course 6.

Table 4.1. Form of study work of EP HE

Form of study work	Total hours	Semester							
		1	2	3	4	5	6	7	8
Class hours (total)	36								
Lectures (Lc)	18								
Laboratory classes (LC)	-								
Seminars (S)	18								
Autonomous work (AW), hr	180								
<i>Credit</i>									
In total	6	6							
	216	216							

5. Content of the course

Table 5.1. Content of the course

Наименование раздела дисциплины	Содержание раздела (темы)	Виды учебной работы
Section 1 History and Philosophy of Science	Topic 1. History of philosophy and science The emergence of philosophy. The emergence of science. History of science Topic 2. Definition of science and scientific method Knowledge of the world. scientific method. Logic constructions. Experiment. Topic 3. Overview of the main scientific areas Various areas of science. Interdisciplinary sciences. Pseudoscience and the fight against it. Information Technology	L,S, AW
Section 2 Philosophy of Science	Topic 4. Ancient philosophy Philosophy of Ancient Greece. Ancient ideas about the World. Presocratics. Plato. Aristotle. Topic 5. Scholastic philosophy Middle Ages. scholastic schools. Universities. Infinity. Augustine the Blessed. Freedom of the individual. Topic 6. Philosophy of modern times and German classical philosophy New time. The concept of mind. Rationalism. Empiricism. Kant. Hegel. Dialectics	L,S, AW
Section 3 Modern problems of science and education	Topic 9. Philosophy and methodology of science Tasks of philosophy of science. Positivism. Postpositivism. T. Kuhn. Science paradigms. Topic 10. Problems of artificial intelligence	L,S, AW

	Artificial intelligence. Opportunities and dangers. Philosophical questions of artificial intelligence. Topic 11. Virtual reality virtual worlds. Interaction with virtual reality. Aspects of virtual reality	
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6. Technical Support Requirements

Table 6.1. Technical Support Requirements

A type of a classroom	Technical Support Requirements	Special equipment, software
For lectures	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations	-
For seminars	Audience for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations	-
For autonomous work	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIS	-

6. Study-methodical and information sources:

Main literature:

1. Афанасьев, В. В. Методология и методы научного исследования : учебное пособие для вузов / В. В. Афанасьев, О. В. Грибкова, Л. И. Уколова. — Москва : Издательство Юрайт, 2023. — 154 с. — (Высшее образование). — ISBN 978-5-534-02890-4.

2. Новиков, А.М. Методология научного исследования / А.М. Новиков, Д.А. Новиков. - Москва: Либроком, 2010. - 284 с. - ISBN 978-5-397-00849-5; То же [Электронный ресурс]. - URL: <http://biblioclub.ru/index.php?page=book&id=82773> (17.09.2018).

3. Пещеров, Г. И. Методология научного исследования : учебное пособие : [16+] / Г. И. Пещеров ; Институт мировых цивилизаций. – Москва: Институт мировых цивилизаций, 2017. – 312 с.: ил. – Режим доступа: по подписке. – URL: <https://biblioclub.ru/index.php?page=book&id=598470> (дата обращения: 12.04.2023). – Библиогр.: с. 242-245. – ISBN 978-5-9500469-0-2. – Текст: электронный.

Additional literature:

1. Микешина Л. А. Философия науки. Современная эпистемология. Научное знание в ди-на-мике культуры. Методология научного исследования : учебное пособие / Л.А. Микешина [Элек-тронный ресурс]. - М. : Прогресс-Традиция [и др.], 2005. 463 с. ISBN 5-89826-202-4 (Про-гресс-Традиция) URL: <http://dlib.rsl.ru/rs10100200000/rs101002671000/rs101002671663/rs101002671663.pdf> URL: <http://dlib.rsl.ru/rs10100200000/rs101002671000/rs101002671663/rs101002671663.pdf>

Internet resources:

- 1) <http://www.businessstest.ru/> деловые тесты
- 2) <http://www.smartcat.ru/Personnel/> электронная библиотека учебной литературы
- 3) Electronic library systems:
 - ЭБС РУДН <http://lib.rudn.ru/MegaPro/Web>
 - ЭБС «Университетская библиотека онлайн» <http://www.biblioclub.ru>
 - ЭБС «Юрайт» <http://www.biblio-online.ru>

- ЭБС «Консультант студента» www.studentlibrary.ru
- ЭБС «Лань» <http://e.lanbook.com/>
- ЭБС «Троицкий мост»
 - 4) Data bases and browsers:
 - электронный фонд правовой и нормативно-технической документации <http://docs.cntd.ru/>
 - поисковая система Яндекс <https://www.yandex.ru/>
 - поисковая система Google <https://www.google.ru/>
 - реферативная база данных SCOPUS <http://www.elsevierscience.ru/products/scopus/>
 - 5) Sites:
 - <https://www.mos.ru/mka/>
 - <http://www.minstroyrf.ru/>

7. Assessment system

Materials for assessing the level of mastering the educational material of the discipline (assessment materials), including a list of competencies indicating the stages of their formation, a description of indicators and criteria for assessing competencies at various stages of their formation, a description of assessment scales, standard control tasks or other materials necessary for assessment knowledge, abilities, skills and (or) experience of activity, characterizing the stages of the formation of competencies in the process of mastering the educational program, the methodological materials defining the procedures for assessing knowledge, skills, skills and (or) experience of the activity, characterizing the stages of the formation of competencies, are developed in full and are available for students on the discipline page in the TUIS RUDN University.

Educational designer:

Associate Professor, Ph.D



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Director of innovation management in industries department



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Head of EP HE:

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