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**Peoples' Friendship University of Russia named after Patrice Lumumba**

**Academy of Engineering**

## **Program of scientific – research training**

**For study field: 44.04.02 Pedagogy and Psychology**

**Profile «Pedagogy in Engineering»**

**Full-time education**

Moscow,  
2023

### 1. PURPOSE OF THE PRACTICE

The purpose of the practice is to deepen, systematize and consolidate theoretical knowledge in the field of pedagogy, professional skills in the field of educational technologies..

### 2. REQUIREMENTS FOR THE RESULTS OF TRAINING BASED ON THE RESULTS OF THE INTERNSHIP

The practice is aimed at the formation of the following competencies (parts of competencies) among students:

*Table 2.1. The list of competencies formed in students during the practice (learning outcomes based on the results of practice)*

<b>Name of competence</b>	<b>Indicators of competence achievement (within the framework of this practice)</b>
PC-1 Able to design basic and additional educational programs and develop scientific and methodological support for their implementation;	PC-1.1. Effectively uses the methods of designing basic and additional educational programs PC-1.2. Develops scientific and methodological support for the implementation of basic and additional educational programs
PC-2 Able to design the organization of joint and individual educational and educational activities of students, including those with special educational needs;	PC-2.1. Effectively uses the methods of designing, organizing joint and individual educational and educational activities PC-2.2. Works effectively with students with special educational needs
PC-3 Able to develop programs for monitoring the results of students' education, develop and implement programs for overcoming learning difficulties	PC-3.1. Competently uses methods for developing programs for monitoring the results of students' education PC-3.2. Effectively uses methods for developing programs to overcome learning difficulties
PC-4 Able to plan and organize interactions between participants in educational relations;	PC-4.1. Effectively plans the interaction of participants in educational relations PC-4.2. Effectively organizes the interaction of participants in educational relations
PC-5 Able to design pedagogical activities on the basis of special scientific knowledge and research results.	PC-5.1. Effectively designs pedagogical activities on the basis of special scientific knowledge and research results PC-5.2. Competently uses the methods of designing pedagogical activity on the basis of special scientific knowledge and research results

### 3. THE PLACE OF PRACTICE IN THE STRUCTURE OF EDUCATIONAL PROGRAM OF HIGHER EDUCATION OII BO

Practice refers to the variable component of the mandatory part of block 2 of the curriculum.

Within the framework of the educational program OII BO, students also master other disciplines and practices that contribute to achieving the planned learning outcomes based on the results of practical training:

*Table 3.1. The list of components of the educational support OII BO, contributing to the achievement of the planned learning outcomes based on the results of the internship*

<b>№ п/п</b>	<b>Предшествующие дисциплины/практики</b>	<b>Последующие дисциплины</b>
PC-1	Planning of mixed and on-line courses	SFC
PC-1	<i>Innovative technologies in engineering education</i>	SFC
PC-2	<i>Psychological - pedagogical technolo-</i>	SFC

	<i>gies in education</i>	
PC-3	<i>Management of educational process</i>	SFC
PC-4	<i>Digital education</i>	SFC
PC-5	<i>Theory and practice of technical subjects tutorial</i>	SFC
PC-5	<i>Theory and practice of engineering education</i>	SFC

#### 4. SCOPE OF PRACTICE

The total labor intensity of the practice is 6 credits (216 academic hours).

#### 5. CONTENT OF PRACTICE

Table 5.1. Practice content\*

<b>Name of the practice section</b>	<b>Contents of the section (topics, types of practical activities)</b>	<b>Labor intensity, ac. h</b>
Organizational and preparatory	Issuance by the head of the practice of individual tasks for practice	2
	Conducting an organizational meeting with students by the head of the practice and the initial briefing of students on safe working conditions and fire safety rules during the internship	2
Principal	Collection of data in accordance with the individual task for practice	86
	Analysis and processing of data obtained during the internship	86
Reporting	Preparation of the internship report	28
	Preparation and process for defending of the practice report	12
Altogether:		216

\* - the content of the practice by sections and types of practical training is FULLY reflected in the student's report on the practice

#### 6. MATERIAL AND TECHNICAL SUPPORT OF THE PRACTICE

To conduct the practice, classrooms equipped with specialized furniture, computerized workplaces, office equipment (projector, projector screen, printer / MFP, etc.), Internet access and software (Microsoft Windows operating system, office application package, including MS Office / Office 365, Teams, Skype) are used.

During the internship in a specialized organization, for meetings, consultations and interviews with students, as well as for independent work of students, premises are used that are equipped, similar to the above-mentioned classrooms, as well as the household premises, industrial equipment and devices necessary for the practice.

The above means of logistics of practice must pass the necessary verification (licensing, certification, attestation, verification) and must comply with sanitary and fire safety standards, as well as safety rules and measures, incl. when working with certain production / laboratory equipment.

#### 7. METHOD OF PRACTICE

The method of conducting the practice is stationary.

Practice is carried out in the Department of Innovation Management in Industries of the RUDN University Academy of Engineering. By decision of the head of the educational program of higher education, practice can also be carried out in specialized organizations in Moscow on the basis of an agreement on the practical training of students.

The terms of the internship correspond to the period specified in the calendar educational schedule of the educational program of higher education OII BO, and can be changed in coordination with the RUDN university educational policy department and the department for the organization of practices and employment of students in RUDN University.

## 8. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF PRACTICE

### *Main literature:*

1. Гадельшина, Т. Г. Методология и методы психолого-педагогических исследований : учебно-методический комплекс / Т. Г. Гадельшина, И. Л. Шелехов, Н. В. Жигинас. – Томск. : Изд-во ТГПУ, 2010.

2. Зимняя И.А., Шашенкова Е.А. Исследовательская работа как специфический вид человеческой деятельности.- Москва- Ижевск, 2001.

3. Загвязинский В.И., Атаханов Р. Методология и методы психологопедагогического исследования: Учеб. пособие для студ. высш.пед.учеб. заведений. –М.: Издательский центр “Академия”, 2006.

### б) additional literature:

1. Ананьев, Б. Г. Человек как предмет познания / Б. Г. Ананьев. – СПб.: 2002.

### Периодические издания:

1. Журнал «Главбух»
2. Журнал «Эксперт»
3. Журнал «Экономическая наука современной России»
4. Журнал «Экономика и жизнь»
5. Журнал «Экономист»

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

1) Electronic library system (EBS) of RUDN University and third-party EBS, to which university students have access on the basis of concluded contracts:

- 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](http://www.studentlibrary.ru)
- ЭБС «Лань» <http://e.lanbook.com/>
- ЭБС «Троицкий мост»
- 2) Databases and search engines:
- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

### *Specialized program support:*

The use of specialized software is not provided.

*Educational and methodical materials for internship, filling out a diary and issuing a report on practice\*:*

1) Rules of safe working conditions and fire safety during the passage of the "Pre-diploma practice" (primary instruction).

2) Methodological recommendations for filling out a diary for students and issuing a report on practice.

\* - all educational and methodological materials for internship are placed in accordance with the current procedure on the internship page in [the telecommunications educational and information system](#) (TUIS) of RUDN University

## 9. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES ON THE RESULTS OF PRACTICE

Assessment materials and a point-rating system\* for assessing the level of formation of competencies (part of competencies) based on the results of the internship are presented in the Appendix to this Internship Program.

\* - ОМ и БРС are formed on the basis of the requirements of the relevant local regulatory act of the RUDN University

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