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ФИО: Ястребов Олет Расксандровыч Friendship University of Russia named after Patrice Lumumba

Academy of Engineering

PROGRAM OF FINAL STATE CERTIFICATION

For study field: 44.04.02 Psychological Education EP of HE "Pedagogy in Engineering"

1. PURPOSE AND OBJECTIVES OF THE STATE FINAL CERTIFICATION (SFC)

The purpose of the FSC within the framework of the implementation of the EP HE "Pedagogy in Engineering" is to determine the compliance of the results of mastering the EP HE by students with the relevant requirements of the Federal State Educational Standard of HE. The objectives of the state final certification are:

- checking the quality of teaching a person basic humanitarian knowledge, natural science laws and phenomena necessary in professional activities;
- determination of the level of theoretical and practical preparedness graduate to perform professional tasks in accordance with the received qualification;
- establishing the degree of a person's desire for self-development, improving their qualifications and skills;
- -checking the formation of a graduate's sustainable motivation for professional activities in accordance with the stipulated ES HE types of tasks of professional activity;
- assessment of the level of graduates' ability to find organizational and managerial decisions in non-standard situations and readiness to bear for them responsibility;
- ensuring the integration of education and scientific and technical activities, increasing the efficiency of using scientific and technological achievements, reforming the scientific sphere and stimulating innovation;
- ensuring the quality of training of specialists in accordance with the FSES HE requirements

2. At the end of the development of the EP HE, the graduate must have the following universal competencies (UC):

Code and name of competence	Code and the indicators of achievement of		
	competence		
UC-1 Able to carry out a critical analysis of	UC-1.1. Analyzes the problem situation and		
problem situations on the basis of a systematic	decomposes it into separate tasks.		
approach, to develop an action strategy	UC-1.2. Forms possible solutions to problems		
UC-2 Able to manage the project at all stages	UC-2.1. Demonstrates knowledge of the		
of its life cycle	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 lead the work of	UC-3.1. Demonstrates knowledge of the		
the team, developing a team strategy to achieve	principles of teamwork.		
the goal	UC-3.2. Supervises team members to solve		
	assigned tasks		
UC-4 Able to apply modern communication	UC-4.1. Carries out academic and professional		
technologies, including in a foreign	interaction, including in a foreign language.		
language(s), for academic and professional	UC-4.2. Uses modern information and		
interaction	communication tools for academic and		
	professional interaction		
UC-5 Able to analyze and take into account the	UC-5.1. Demonstrates an understanding of		
diversity of cultures in the process of	different cultures		
intercultural interaction	UC-5.2. Builds social interaction, taking into		
	account the common and different features of		
	cultures and religions		
UC-6 Able to determine and implement the	UC-6.1. Assesses their resources and their		
priorities of their own activities and ways to	limits (personal, situational, temporary),		

improve them on the basis of self-esteem	optimally uses them for the successful completion of the assigned task. UC-6.2. Determines the priorities of personal growth and ways to improve their own activities based on self-esteem
UC-7. Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data obtained from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data.	

Upon completion of the development of the EP HE, the graduate must have the following general professional competencies: (GPC):

Code and name of competence	Code and the indicators of achievement of				
	competence				
GPC-1 Able to carry out and optimize professional activities in accordance with regulatory legal acts in the field of education and the norms of professional ethics	education and the norms of professional ethics				
GPC -2 Able to design basic and additional educational programs and develop scientific and methodological support for their implementation	GPC-2.1. Possesses the skills of designing basic and additional educational programs GPC-2.2. Possesses the skills of developing scientific and methodological support for basic and additional educational programs				
GPC-3 Able to design the organization of joint and individual educational and educational activities of students, including those with special educational needs	GPC-3.1. Competently projects the organization of joint and individual educational and educational activities GPC-3.2. Possesses the skills of organizing joint and individual educational activities of students with special educational needs				
GPC-4 Able to create and implement the conditions and principles of spiritual and moral education of students on the basis of basic national values	GPC-4.1. Demonstrates knowledge of the principles of creating and implementing conditions for spiritual and moral education based on basic national values GPC-4.2. Effectively creates and implements the conditions of spiritual and moral education on the basis of basic national values				
GPC-5 Able to develop programs for monitoring the results of students' education, develop and implement programs for overcoming learning difficulties GPC-6 Able to design and use effective	GPC-5.1. Demonstrates the skills of monitoring the educational outcomes of students GPC-5.2. Effectively develops and implements programs for overcoming learning difficulties GPC-6.1. Competently owns the psychological				

psychological and pedagogical, including inclusive, technologies in professional activities necessary for the individualization of training, development, education of students with special educational needs	and pedagogical technologies necessary for the individualization of learning, development, education of students with special educational needs GPC -6.2. Demonstrates the skills of owning inclusive technologies necessary for the individualization of learning, development, education of students with special educational needs		
GPC-7 Able to plan and organize interactions	GPC -7.1. Demonstrates the skills of planning		
between participants in educational relations	the interaction of participants in educational		
serveen participants in educational relations	relations		
	OPK-7.2. Effectively organizes the interaction		
	of participants in educational relations		
	1 1		
GPC-8 Able to design pedagogical activities	GPC-8.1. Effectively designs pedagogical		
on the basis of special scientific knowledge	activities on the basis of special scientific		
and research results	knowledge and research results		
	OPK-8.2. Demonstrates possession of special scientific knowledge		
GPC-9 Able to possess tools for working with	GPC-9.1. Effectively uses modern digital		
large amounts of structured and unstructured	methods of processing, analysis, interpretation		
information, use modern digital methods of	and visualization of data in order to solve the		
processing, analysis, interpretation and	tasks of professional and research		
visualization of data in order to solve problems	psychological and pedagogical activities		
professional and research psychological and	OPK-9.2 Demonstrates the skills of using tools		
1.	for working with large amounts of structured		
pedagogical activities			
	and unstructured information		

At the end of the development of the EP HE, the graduate must have the following professional competencies: (PC):

Code and name of competence	Code and the indicators of achievement of competence				
PC-1 Able to design basic and additional educational programs and develop scientific	PC-1.1. Effectively uses the methods of designing basic and additional educational				
and methodological support for their					
implementation;	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	PC-2.1. Effectively uses the methods of				
and individual educational and educational	designing, organizing joint and individual				
activities of students, including those with	educational and educational activities				
special educational needs;	PC-2.2. Works effectively with students with				
	special educational needs				
PC-3 Able to develop programs for monitoring	PC-3.1. Competently uses methods for				
the results of students' education, develop and	developing programs for monitoring the				

implement programs for overcoming learning	results of students' education			
difficulties	PC-3.2. Effectively uses methods for			
	developing programs to overcome learning			
	difficulties			
PC-4 Able to plan and organize interactions	PC-4.1. Effectively plans the interaction of			
between participants in educational relations;	participants in educational relations			
	PC-4.2. Effectively organizes the interaction			
	of participants in educational relations			
PC-5 Able to design pedagogical activities on	PC-5.1. Effectively designs pedagogical			
the basis of special scientific knowledge and	activities on the basis of special scientific			
research results.	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. Composition of FSC can be conducted both in full-time format (students and state the examination committee during the GIA are in RUDN-UNIVERSITY), and with using distance learning technologies (DLT) available in Electronic Information and Educational Environment of RUDN University (EIOS). The procedure for conducting the FSC in full-time format or using (DOT) is regulated by the relevant local normative act of the RUDN University. GIA for EP VO "Pedagogy in Engineering" includes:
- state exam (SE);
- defense of the final qualifying work (FQW).

4. FSC PROGRAM

The state exam is held in several disciplines of EP HE, the results of mastering which are of decisive importance for the professional activities of graduates. The volume of the GE for EP HE is 3 credit units. The state examination is conducted in the form of a written examination. To prepare students for passing the GE, the head of the EP VO (no later than one calendar month before the start of the GIA) is obliged to familiarize students graduation course with this GIA program, an exhaustive list theoretical and practical issues included in the GE, as well as with the procedure for each of each of the stages of the GE and the methodology for evaluating its results (with evaluation materials). Before the GCSE, students are required to be consulted on issues and tasks included in the GE program (pre-examination consultation).

The procedure for the written examination is as follows:

the main part of the state examination is conducted in writing using examination cards. Each exam card contains three questions.

The questions included in the exam card are interdisciplinary in nature and are aimed at determining the level of theoretical and practical readiness of the graduate to solve professional problems defined by the Federal State Educational Standard of Higher Education in accordance with the type of professional activity that the educational program is focused on.

The total number of examination cards is determined by the number of students admitted to the state examination. The student has 180 minutes to prepare a written response to the ticket. The maximum number of points that can be obtained for the written exam is 60 points respectively). Before the written exam students take a computer test, it consists of 40 questions and takes 90 minutes (40 points, 1 point for each question)

5. REQUIREMENTS FOR FOW AND PROCEDURE FOR ITS DEFENDING

The FQW is a work done by the student, demonstrating the level of preparedness of the graduate for independent professional activity. The list of topics of final qualifying works offered students for implementation, is approved by the order of the head of the PMO, implementing the ES HE, and is brought to the attention of the program manager graduate students no later than 6 months before the start date of the GIA.

It is allowed to prepare and defend a FQW on a topic proposed by students (students) in the prescribed manner. A student who has passed the GE is allowed to defend the FQW.

Only a fully completed FQW, signed by graduate (graduates), who completed it, leader, consultant (with available), the head of the issuing BUP and PMO, which has passed the external review procedure (mandatory for Master's and Specialist programs) and checked for the amount of borrowing (in the Antiplagiat system). To the FQW, admitted to the defense, a review of the supervisor on the work of the graduate in the preparation of the FQW is mandatory attached.

In order to identify and timely eliminate deficiencies in the structure, the content and execution of the FQW, no later than 14 days before the date of its defense, a rehearsal of the defense by students of their work (pre-defense) is held in the presence of the head of the FQW and other teachers of the graduating BUP. The defense of the WRC is held at an open meeting of the state Examination Commission (SEC). The certification test is carried out in the form of an oral report of students with mandatory multimedia (graphic) presentation reflecting the main WRC content. At the end of the report, the defenders give oral answers to questions arising from the members of the SEC on the subject, structure, content or design of the WRC and the profile of the OP VO. The report and / or answers to questions from members of the SEC can be foreign language. Stages of WRC implementation, requirements for the structure, volume, content and registration, as well as a list of mandatory and recommended documents, presented for defense are indicated in the relevant guidelines. Evaluation of the results of the defense of the WRC is carried out in accordance with the methodology, set out in the assessment materials presented in the Appendix to this GIA program.

6.Material and technical support of GIA

Resources of the information and telecommunications network "Internet":

- 1. EBS of RUDN University and third-party EBS to which university students have access on the basis of concluded agreements:
- RUDN University Electronic Library System RUDN University Library System http://lib.rudn.ru/MegaPro/Web
- EBS "University Library Online" http://www.biblioclub.ru
- EBS Yurayt http://www.biblio-online.ru
- EBS "Student Consultant" www.studentlibrary.ru
- EBS "Doe" http://e.lanbook.com/
- 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/
- SCOPUS abstract database http://www.elsevierscience.ru/products/scopus/

Software:

- 1. Specialized software for conducting the test part of the state exam:
- ...TestStudio.....

and independent work of students - room 350 Ordzhonikidze, 3:

- Windows 7 (Microsoft Subscription) Enrollment for Education Solutions № 86626883 от 01.04.2018 г.);
- Microsoft Office 2007 (Microsoft Subscription) Enrollment for Education Solutions № 86626883 or 01.04.2018 г.);

- Windows XP (Microsoft Subscription) Enrollment for Education Solutions № 86626883 or 01.04.2018 г.);
- Microsoft Office 2003 (Microsoft Subscription) Enrollment for Education Solutions № 86626883 or 01.04.2018 г.);
- Borland Developer Studio 2006 (License Certificate Number: 33080, 33081, 33082) MATLAB R2008b ($361405\ 2008\ \Gamma$.);
- Notepad++ (free application) Acrobat Reader DC (free application).

Methodological materials for independent work of students in the process of preparing Master thesis research paper for defense:

To prepare for the state exam and defend the Master thesis research paper, students use the premises for independent work.

To conduct the test part of the state exam, an educational classroom is required, equipped with workstations with personal computers (at least 12), equipped with the necessary software and a connection to the Internet.

To conduct the main part of the state examination and / or defense of the Master thesis research paper, a room with a capacity of 12 or more people is required, in which workplaces are equipped for all members of the State Examination Commission, with the ability to listen to reports, view public presentations of speakers, keep records and minutes, there are places for listeners wishing to attend the MThRP defense procedure. The necessary equipment of the premises includes:

- equipment for public presentations of FQP results, including a multimedia screen, a projector, and audio equipment.
- a board for illustrating answers to questions;
- tablets / stands of at least A1 format (if necessary), for placing the graphic part of the WRC on them.

The student can notify the issuing department of his wishes for additional material and technical equipment (if necessary) of the audience assigned to defend the MThRP with a written statement no later than a week before the defense procedure.

The program has been drawn up in accordance with the requirements of the OS VO RUDN.

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