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Информация о владельце:

ФИО: Ястребов Олег Prederal State Autonomous Educational Institution of Higher Education

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Уникальный программный ключ:

NAMED AFTER PATRICE LUMUMBA

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**RUDN** University

	Academy of Engineering	
educational division (faculty)	/institute/academy) as higher education	programme developer
Approved at the meeting of the	Academic Opened by order	of the Rector of
Council of RUDN University	RUDN University	7 No. 29
Protocol No. 23	·	
December 26, 2022	January 30, 2023	3
(date, month, year)	(date, mont	h, year)
PROFESSIONAL EDUC	CATION PROGRAMME O	F HIGHER EDUCATION
Field of Studies/ Speciality:		
1	hological and Pedagogical E	ducation
	field of studies / speciality code and tit	
Profile/Specialisation:	1	
•	Pedagogy in Engineering	
	higher education programme title	
The Edment of December 1.	1	
The Educational Programme is d		.1
Educational Standard of RUD	N University, approved by Or	der of the Rector No. $3/1$
dated 21.05.2021		
(day, month, year)		
Level of education:		
	master's	
(bachelor	r's / specialist's / master's – to fill in th	e required)
Graduate's Qualification:		
Graduite 5 Quantification.	Master	
(graduate's qualification in compliance w		on and Science of Russian Federation dated
	September 12, 2013, No. 1061)	
Langth of Educational Dragrams		
Length of Educational Programn	ie.	
2 years (full-time education)	(part-time education)	(correspondence education)
(run-time education)	(part-time education)	(correspondence education)
	AGREED by:	
Head	Chairperson	Head
of Educational Programme	of Didactic Council	of Educational
C		Department
E.A. Kovaleva	N.L. Sokolova	Yu.N. Razoumny
(signature)	(signature)	(signature)
(day, month, year)	(day, month, year)	(day, month, year)

#### 1. GOAL (MISSION) OF EP HE

The program is focused on training highly qualified specialists in the field of pedagogy in engineering. In the process of training, students receive theoretical training and practical skills that allow them to work effectively after completing the study of the educational program, engaging in pedagogical and methodological activities in technical universities.

The program is designed in such a way that it allows students to form the most popular universal, general professional and professional competencies today, to developskills for their implementation in professional activities in accordance with the requirements of the Federal State Educational Standard of Higher Education. In the process of training, students receive fundamental theoretical and applied knowledge that allows them to carry out activities in the field of pedagogy in engineering.

## 2. RELEVANCE, SPECIFICITY, UNIQUINESS OF THE EDUCATIONAL PROGRAM

Today, the demand for highly qualified engineering personnel is extremely high, whichis explained by the acceleration of the pace of change that is taking place in the global economy. Thus, the relevance of training effective teachers of engineering disciplines is obvious.

Theprogram is aimed at training masters in the field of engineering pedagogy, it combines both the study of traditional academic disciplines and the creative activity of undergraduates in the framework of prestigious international competitions.

The uniqueness of the program lies in the fact that it optimally combines pedagogical and engineering subjects, as a result, the graduates of the program will be prepared for the organization of pedagogical activities, the creation and implementation of engineering educational programs, and the use of innovative technologies in educational activities.

#### 3. PERSONNEL TRAINING IN EDUCATIONAL PROGRAMME PROFILE

Labor market experts predict that engineering specialties related to production will take the lead in the coming years. To date, there is an acute shortage of technical specialists with higher education in the field of communications and telecom, construction, mechanical engineering, electronics and electrical engineering, food and other industries. Industries are already experiencing an acute shortage of design engineers and process engineers This situation entails an increasing demand for teachers of engineering specialties.

Thisprogram is distinguished by its focus on teaching engineering disciplines in technical universities, and will allow to train professionals who are able to effectively organize, implement and control the educational process.

#### 4. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS

Admission to the program is subject to the Admission Rules approved by the relevant local regulatory act and publicly available on the official website RUDN <a href="http://www.rudn.ru/admissions">http://www.rudn.ru/admissions</a>.

#### 5. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

- 5.1. EP HE is implemented with elements of e-learning / distance learning technologies (Microsoft Teams, Zoom, TUIS RUDN).
  - 5.2. The language of implementation of the EP HE is English.
- 5.3. The program can be adapted to teach people with disabilities and persons with disabilities.
  - 5.4. The EP of HE is implemented by the Peoples' Friendship University of Russia.
- 5.5. Information on the planned bases for conducting educational/industrial practices and (or) research

Potential partners: JSC Polyus Research Institute named after M.F. Stelmakh, JSC Shvabe, FSUE Research Institute Research and Production Association LUCH, UNIDO Center for International Industrial Cooperation in the Russian Federation, etc.

# 6. CHARACTERISTICS OF EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

6.1. Field(s) and/or sphere(s) of professional activity of a graduate who has mastered the EP of HE in which he (s) can carry out his/her professional activities:

- 01 Education and science (in the areas of: implementation of basic professional educational programs and additional educational programs; scientific research).
- 6.2. Type(s) of tasks of professional activity, for the solution of which the graduate is preparing as part of the development of the EP HE pedagogical.

6.3. The list of generalized labor functions and labor functions related to the professional activity of a graduate of the EP HE, in accordance with which the program was developed

Code and title of		Generalized labor fu	unctions		Labor functio	ns
the professional	Code	Title	Qualification	Code	Name	Qualification
standard	Coue	Title	level	Code	Ivallie	level
1.004 Teacher of	I	Teaching in bache-	7	I/01.7	Teaching	7
vocational train-		lor's, specialist's,			courses, disci-	
ing, vocational ed-		master's and DPP			plines (modules)	
ucation and addi-		programs focused			for bachelor's,	
1 1-		on the appropriate			specialist's, mas-	
education		level of qualifica-			ter's and (or) DPP	
		tion			programs	

### 7. REQUIREMENTS FOR EDUCATIONAL PROGRAMME OUTCOMES

7.1 Upon completion of the Educational Programme, the graduate is expected to acquire the following generic competences (GCs):

Code and descriptor of generic competence	
	Code and competence level indicator
	GC-1.1. Analyzes the problem situation and decomposes
problem situations on the basis of a systematic it	•
	GC-1.2. Forms possible solutions to problems
GC-2 Able to manage the project at all stages C	GC-2.1. Demonstrates knowledge of the characteristics of
	all stages of the project life cycle
	GC -2.2. Participates in project management at all stages
	of the life cycle
GC-3 Able to organize and lead the work of the C	GC-3.1. Demonstrates knowledge of the principles of
team, developing a team strategy to achieve the	eamwork.
	GC-3.2. Supervises team members to solve assigned tasks
GC-4 Able to apply modern communication C	GC-4.1. Carries out academic and professional interaction,
technologies, including in a foreign lan-in	
guage(s), for academic and professional inter-C	GC-4.2. Uses modern information and communication
	ools for academic and professional interaction
· ·	GC-5.1. Demonstrates an understanding of different cul-
diversity of cultures in the process of intercul-	ures
	GC-5.2. Builds social interaction, taking into account the
	common and different features of cultures and religions
1	GC-6.1. Assesses their resources and their limits (personal,
	situational, temporary), optimally uses them for the sGC-
1	cessful completion of the assigned task.
	GC-6.2. Determines the priorities of personal growth and
	ways to improve their own activities based on self-esteem
	UC-7.1 Effectively finds sources of necessary information.
_	JC-7.2 Owns methods of analysis and evaluation of infor-
memorize and transmit information using digi-	nation
tal means, as well as using algorithms when	
working with data obtained from various	
sources in order to effectively use the infor-	
mation received to solve problems; evaluate in-	
formation, its reliability, build logical conclu-	
sions based on incoming information and data.	

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

Code and descriptor of generic competence	Code and competence level indicator
	GPC-1.1. Knows the regulations in the field of educa-
activities in accordance with regulatory legal acts	
	GPC-1.2. Competently uses legal acts in the field of
sional ethics	education and the norms of professional ethics in their
	professional activities
GPC-2 Able to design basic and additional educa-	GPC-2.1. Possesses the skills of designing basic and
tional programs and develop scientific and method-	_ = =
ological support for their implementation	GPC-2.2. Possesses the skills of developing scientific
orogreur support for their imprementation	and methodological support for basic and additional
	educational programs
GPC-3 Able to design the organization of joint and	GPC-3.1. Competently projects the organization of
	joint and individual educational and educational activ-
students, including those with special educational	r i
needs	GPC-3.2. Possesses the skills of organizing joint and
inced 5	individual educational activities of students with spe-
	cial educational needs
GPC-4 Able to create and implement the conditions	GPC-4.1. Demonstrates knowledge of the principles of
±	creating and implementing conditions for spiritual and
students on the basis of basic national values	moral education based on basic national values
statement on the dashs of dashe matterial values	GPC-4.2. Effectively creates and implements the con-
	ditions of spiritual and moral education on the basis of
	basic national values
GPC-5 Able to develop programs for monitoring	GPC-5.1. Demonstrates the skills of monitoring the
the results of students' education, develop and im-	9
	GPC-5.2. Effectively develops and implements pro-
culties	grams for overcoming learning difficulties
	GPC-6.1. Competently owns the psychological and
	pedagogical technologies necessary for the individual-
	ization of learning, development, education of students
dividualization of training, development, education	
of students with special educational needs	GPC -6.2. Demonstrates the skills of owning inclusive
of students with special educational needs	technologies necessary for the individualization of
	learning, development, education of students with spe-
	cial educational needs
GPC-7 Able to plan and organize interactions be-	
tween participants in educational relations	teraction of participants in educational relations
tween participants in educational relations	OPK-7.2. Effectively organizes the interaction of par-
	ticipants in educational relations
GPC-8 Able to design pedagogical activities on the	GPC-8.1. Effectively designs pedagogical activities on
	the basis of special scientific knowledge and research
results	results
100uiu	OPK-8.2. Demonstrates possession of special scien-
	tific knowledge
GPC-9 Able to possess tools for working with large	GPC-9.1. Effectively uses modern digital methods of
	processing, analysis, interpretation and visualization
	of data in order to solve the tasks of professional and
analysis, interpretation and visualization of data in	-
	OPK-9.2 Demonstrates the skills of using tools for
psychological and pedagogical activities	working with large amounts of structured and unstruc-
psychological and pedagogical activities	tured information
	turea information

7.3. Upon completion of the Educational Programme, the graduate is expected to acquire the following professional competences (PCs):

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupa- tional standard for rele- vant PC
PC-1 Able to design basic and addi-	PC-1.1. Effectively uses the methods of	1.004 Teacher of voca-
tional educational programs and de-	designing basic and additional educa-	tional training, voca-
velop scientific and methodological	tional programs	tional education and ad-
support for their implementation	PC-1.2. Develops scientific and methodo-	ditional professional edu-
	logical support for the implementation of	cation
	basic and additional educational programs	
PC-2 Able to design the organiza-	PC-2.1. Effectively uses the methods of	
tion of joint and individual educa-	designing, organizing joint and individual	
tional and educational activities of	educational and educational activities	
students, including those with spe-	PC-2.2. Works effectively with students	
cial educational needs	with special educational needs	
PC-3 Able to develop programs for	PC-3.1. Competently uses methods for	
monitoring the results of students'	developing programs for monitoring the	
education, develop and implement	results of students' education	
programs for overcoming learning	PC-3.2. Effectively uses methods for de-	
difficulties	veloping programs to overcome learning	
	difficulties	
PC-4 Able to plan and organize in-	PC-4.1. Effectively plans the interaction	
teractions between participants in	of participants in educational relations	
educational relations	PC-4.2. Effectively organizes the interac-	
	tion of participants in educational rela-	
	tions	
PC-5 Able to design pedagogical ac-	PC-5.1. Effectively designs pedagogical	
tivities on the basis of special scien-	activities on the basis of special scientific	
tific knowledge and research results	knowledge and research results	
	PC-5.2. Competently uses the methods of	
	designing pedagogical activity on the ba-	
	sis of special scientific knowledge and re-	
	search results	

9. MATRIX OF COMPETENCES that students acquire when mastering the Educational Programme «Pedagogy in Engineering» in the field

of studies44.04.02 Psychological and Pedagogical Education

	++.0+.02 I Sychological and I chagogical Education			GEN	NERIC C	OMPETI	ENCES	
Code	Titles of subjects and internship, forming competences	GC-1: Able to carry out a critical analysis of problem situations on the basis of a systematic approach, to develop an action strategy	GC-2 Able to manage the project at all stages of its life cycle	GC-3 Able to organize and lead the work of the team, developing a team strategy to achieve the goal	GC-4 Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	GC-5 Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	GC-6 Able to determine and implement the priorities of their own activities and ways to improve them on the basis of self-esteem	GCUK-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
Б1	DISCIPLINES (MODULES)							
Б1.О	Mandatory part							
Б1.О.01	Core component		GC-2.2	GC-3.1, GC-3.2	GC-4.1, GC-4.2	GC-5.1, GC-5.2	GC-6.1, GC-6.2	GC-7.1, GC-7.2
Б1.О.01.01	Philosophy of EdGCation and Science / Философия образования и науки	GC-1.1, GC-1.2	GC-2.1, GC-2.2	GC-3.1, GC-3.2				
Б1.О.01.02	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности				GC-4.1, GC-4.2	GC-5.1, GC-5.2		
Б1.О.01.03	Cultural-historical and Activity Approach in Psychology and EdGCation / Культурно-исторический и деятельностный подход в психологии и образовании		GC-2.1, GC-2.2					GC-7.1, GC-7.2
Б1.О.01.04	Methodology of scientific research / Методология научного исследования						GC-6.1, GC-6.2	
Б1.О.01.05	Design and Expertise of EdGCational Systems / Проектирование и экспертиза образовательных систем							
Б1.О.02	Variable component							
Б1.О.02.01	Innovative technologies in engineering education / Инновационные технологии в инженерном образовании							
Б1.О.02.02	Digital education / Организация цифрового образования							

			1		Т	1	1	
Б1.О.02.03	Psychological - pedagogical technologies in education / Психолого-педагогические техноло-							
	гии в образовании							
Б1.О.02.04	Management of educational process / Менеджмент образовательного процесса							
Б1.О.02.05	Theory and practice of technical subjects tutorial / Теория и практика обучения общетехни-							
	ческим дисциплинам							
Б1.О.02.06	Theory and practice of engineering education / Теория и практика инженерного образова-							
	ния							
Б1.О.02.07	Forming of a Psychologically Comfortable and Safe Educational Environment / Формирование психологически комфортной и безопасной образовательной среды							
F1 D								
Б1.В	The part formed by the participants of educational relations		T		П	T		
Б1.В. ДВ 01	Digital production tecnologies / Цифровые технологии на производстве		GC-2.1,					
, ,			GC-2.2					
Б1.В. ДВ 01	Innovation technologies of hi-tech branches / Инновационные технологии наукоемких от-		GC-2.1,					
	раслей		GC-2.2					
Б1.В. ДВ 02	Planning of mixed and on-line courses / Планирование и проведение смешанных и он-лайн			GC-3.2				
E4 B #B 02	курсов			00.00				
Б1.В. ДВ 02	Design of an educational program / Проектирование образовательной программы		00.0.1	GC-3.2				
Б1.В. ДВ 03	Technological entrepreneurship / Технологическое предпринимательство		GC-2.1,	GC-3.1,				
			GC-2.2	GC-3.2				
Б1.В. ДВ 03	Management of innovative activity at enterprise / Управление инновационной деятельно-	GC-1.2	GC-2.1, GC-2.2.					
	стью на производстве		GC-2.2.			CC 5 1		
Б1.В. ДВ 04	Technologies of cross-cultural education / Технологии кросс-культурного образования					GC-5.1, GC-5.2		
	Management of conflicts in educational environment / Управление конфликтами в образова-			GC-3.1,		GC-3.2		
Б1.В. ДВ 04	тельной среде			GC-3.1, GC-3.2				
Dissila 2	TRAINING			UC-3.2				
Block 2								
Б2.О	Mandatory part							
Б2.О.01	Variable component							
Б2.О.01.01(У)	Pedagogical training / Педагогическая практика (учебная)							
Б2.О.01.02(У)	Introductory practice / Ознакомительная практика							
Б2.О.01.03(Н)	Research work / Научно-исследовательская работа							
Б2.О.01.04(П)	Pedagogical training / Педагогическая практика							
Б2.В	The part formed by the participants of educational relations				<u> </u>			
Б2.В.01(Пд)	Pre-graduate practice / Преддипломная практика							
	FINAL STATE ASSESSMENT		1		ı	·		
<b>53.01(Γ)</b>	State exam / Государственный экзамен	All GC	All GC	All GC	All GC	All GC	All GC	All GC
Б3.02(Д)	Final qualification work / Выпускная квалификационная работа	All GC	All GC	All GC	All GC	All GC	All GC	All GC
	1 T Paris Taling Taling Taling Paris Paris	00			00		00	00

				GENE	RAL PR	OFESSI	ONAL COM	PETENC	CIES	
Code	Titles of subjects and internship, forming competences	GPC-1 Able to carry out and optimize professional activiies in accordance with regulatory legal acts in the field of 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-3 Able to design the organization of joint and individated and educational activities of students, including those 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-5 Able to develop programs for monitoring the results of students' education, develop and implement programs corrovercoming learning difficulties	GPC-6 Able to design and use effective psychological and bedagogical, including inclusive, technologies in professional activities necessary for the individualization of training, development, education of students with special educational needs	to plan and organize interactions between pareducational relations	GPC-8 Able to design pedagogical activities on the basis of special scientific knowledge and research results	GPC-9 Able to possess tools for working with large amounts of structured and unstructured information, use modern digital methods of processing, analysis, interpretation and visualization of data in order to solve problems professional and research psychological and pedagogical activities
Б1	DISCIPLINES (MODULES)	0 1 0	0 30 4			o O				
Б1.О	Mandatory part	1		T			T	<b>.</b>	_	
Б1.О.01	Core component	GPC-1.1, GPC-1.2	GPC-2.1, GPC-2.2	GPC-3.1, GPC-3.2	GPC-4.1, GPC-4.2	GPC-5.1, GPC-5.2		GPC-7.1, GPC-7.2	GPC-8.1, GPC-8.2	GPC-9.1, GPC- 9.2
Б1.О.01.01	Philosophy of EdGCation and Science / Философия образования и науки									
Б1.О.01.02	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности									
Б1.О.01.03	Cultural-historical and Activity Approach in Psychology and EdGCation / Культурно-исторический и деятельностный подход в психологии и образовании		GPC-2.1, GPC-2.2		GPC-4.1, GPC-4.2			GPC-7.1, GPC-7.2	GPC-8.2	
Б1.О.01.04	Methodology of scientific research / Методология научного исследования			GPC-3.1, GPC-3.2					GPC-8.1, GPC-8.2	
Б1.О.01.05	Design and Expertise of EdGCational Systems / Проектирование и экспертиза образовательных систем									
Б1.О.02	Variable component	GPC-1.1, GPC-1.2		GPC-3.1, GPC-3.2		GPC-5.1, GPC-5.2	GPC-6.1, GPC-6.2			
Б1.О.02.01	Innovative technologies in engineering education / Инновационные технологии в инженерном образовании					GPC-5.1, GPC-5.2				
Б1.О.02.02	Digital education / Организация цифрового образования									

том-меские технизатия в образования  бл. 0.2.0.4 процесса  бл. 0.2.0.5 процесса  бл. 0.2.0.5 процесса  бл. 0.2.0.6 протоу анд practice of technical subjects tutorial / Теория и практика  бучения обистехнических диспильнам  бручения образования  бручения обистехнических диспильнам  бручения образовательной  бручения образовательной  года диспубликам образовательной  года диспубликам образовательной  года диспубликам образовательной грега  вручения образовательной пределения  бручения образовательной пределения образовательной  гручения образовательной пределения  бручения образовательной пределения образовательной пределения  бручения образовательной пределения  бручения образовательной пределения образовательной пределения  бручения образовательной пределения  бручения образовательной пределения  бручения образовательной пределения образовательной пределения  бручения образовательной пределения  бручения образовательной пределения  бручения образовательной п		Psychological - pedagogical technologies in education / Психолого-педа-			GPC-3.1,	1		GPC-6.1,	1	Т	
Management of educational process / Menerament role plane particle of reclaired subjects unrolal / Teopus in inpartition (GPC-1.1 GPC-1.2 GPC-2.1 GPC-2.2 GPC-2.1 GPC-2.2 GPC-2.1 GPC-2.2 GPC-2.1 GPC-3.2 GPC-2.1 GPC-3.2 GPC-3.2 GPC-3.2 GPC-3.2 GPC-3.3 GPC-3.4 GPC-											
100.02.60   процесса   GPC-1.2   GPC-1.2   GPC-2.1   GPC-2.1   GPC-2.1   GPC-3.2			GPC-1.1,						GPC-7.1,		
10.00.26   обучения общетежническим дисциплинам   OPC-2.1		процесса	GPC-1.2						GPC-7.2		
оружения опистехническим диспиплинам  31.0.0.20 в Получания опистехническим диспиплинам инженерного образования производение достабление производение производен	F1 O 02 05			GPC-2 1							
ясрьюго образования  Forming of a Psychologically Comfortable and Safe Educational Environment / Формирование психологически комфортной и безопасной образовательной среды  Fil. B. II Bo part formed by the participants of educational relations  Fil. B. II Bo part formed by the participants of educational relations  Fil. B. II Bo part formed by the participants of educational relations  Fil. B. II Bo part formed by the participants of educational relations  Fil. B. II Bo part formed by the participants of educational relations  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1914 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1914 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1914 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1915 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1916 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1918 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1918 и наукоемать ограсней  Fil. B. II Bo Digital production technologies of hi-tech branches / Иниовационные техноло- 1918 и наукоемать	B1.O.02.03			O1 C-2.1							
Biland   Digital production technologies / Цифровые технологии на производ- стве   Digital production technologies / Цифровые технологии на производ- стве   Digital production technologies / Цифровые технологии на производ- стве   Digital production technologies / Цифровые технологии на производ- стве   Digital production technologies / Цифровые технологии на производ- стве   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные техноло- гипна инукосемзких отраждей   Digital production technologies of hi-tech branches / Инновационные образовательной и производет   Digital production		нерного образования		GPC-2.1							
Bill								GPC-6.1.			
The part formed by the participants of educational relations   Digital production tecnologies / Дифровые технологии на производ стев   Digital production tecnologies of hi-tech branches / Инновационные технологии на изумении наумении на правление на предоставления на правления на правления на правления на предоставления на правления на правления на предоставления на правления на правления на предоставления на правления на предоставления на								,			
Digital production tecnologies / Цифровые технологии на производстве   Digital production tecnologies of hi-tech branches / Инновационные технологии наукоемких отраслей   Planning of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и проведение   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет программы   Stable Name of mixed and on-line courses / Планирование и производет произ											
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18.18.   18.	ы.в. дв иг	стве									
1.1. д.	ы.в. дв 01	гии наукоемких отраслей									
программы Теchnological entrepreneurship / Технологическое предпринимательство и программы П.В. ДВ 03 П.В. ДВ 03 П.В. ДВ 03 Песнлоlogical entrepreneurship / Технологическое предпринимательство и производстве и произ	ы.в. дв 02	смешанных и он-лайн курсов									
ство  Манадетен of innovative activity at enterprise / Управление инновационной деятельностью на производстве  Песhnologies of cross-cultural education / Технологии кросс-культурного образования  Манадетен of conflicts in educational environment / Управление конфиликтами в образования  Манадетен of conflicts in educational environment / Управление конфиликтами в образовательной среде  Вlock 2 TRAINING  Б2.О0 Wariable component  Б2.О0.10 Variable											
онной деятельностью на производстве  Теchnologies of cross-cultural education / Технологии кросс-культур- ного образования  Манадееменt of conflicts in educational environment / Управление кон- фликтами в образовательной среде  Вlock 2 TRAINING  Б2.О0 Mandatory part  Б2.О0.10 Variable component  52.О0.10 Pedagogical training / Педагогическая практика (учебная)  52.О0.10(у) Pedagogical training / Педагогическая практика  52.О0.10(у) Introductory practice / Ознакомительная практика  52.О0.10(у) Research work / Научно-исследовательская работа  52.О0.10(ч) Pedagogical training / Педагогическая практика  53.00(п) Pedagogical training / Педагогическая практика  54. Вибек за Практика  55. Вибек за Практика Вибек за Практика  Биок за Практика Вибек за П	Б1.В. ДВ 03										
Horo образования											
## фликтами в образовательной среде  ## фликтами в образовательной среде  ## Pre-graduate practice / Преддипломная практика  ## Block 3  ## FINAL STATE ASSESSMENT  ## Block 3  ## Pre-graduate practice / Преддипломная практика  ## All GPC   All G	Б1.В. ДВ 04										
Mandatory part   S2.O.01   Variable component   S2.O.01.01(V)   Pedagogical training / Педагогическая практика (учебная)   S2.O.01.02(V)   Introductory practice / Ознакомительная практика   S2.O.01.03(H)   Research work / Научно-исследовательская работа   S2.O.01.04(II)   Pedagogical training / Педагогическая практика   S2.O.01.04(II)   Pedagogical training / Педагогическая практика   S2.O.01.04(II)   Pre-graduate practice / Преддипломная практика   S3.O.1(II)   Pre-graduate practice / Преддипломная практика   S4.O.01.04(II)   Pre-graduate practice / Преддипломная практика   Pre-gradu											
62.O.01Variable componentImage: Control of the	Block 2	TRAINING					<u> </u>				
Variable component   Section   Se	Б2.О	Mandatory part									
S2.O.01.01(У) Pedagogical training / Педагогическая практика (учебная)  Б2.O.01.02(У) Introductory practice / Ознакомительная практика  Б2.O.01.03(Н) Research work / Научно-исследовательская работа  Б2.O.01.04(П) Pedagogical training / Педагогическая практика  Б2.O.01.04(П) Pedagogical training / Педагогичес											
Section   Section   Comparison   Comparis											
S2.0.01.04(П) Pedagogical training / Педагогическая практика  The part formed by the participants of educational relations  S2.B.01(Пд) Pre-graduate practice / Преддипломная практика  Block 3 FINAL STATE ASSESSMENT  S3.01(Г) State exam / Государственный экзамен  All GPC   Al											
F2.B     The part formed by the participants of educational relations       52.B.01(Пд)     Pre-graduate practice / Преддипломная практика											
SZ.B.01(Пд) Pre-graduate practice / Преддипломная практика	Б2.О.01.04(П)	Pedagogical training / Педагогическая практика		-			-				
Block 3 FINAL STATE ASSESSMENT  53.01(Г) State exam / Государственный экзамен All GPC	Б2.В		ns								
State exam / Государственный экзамен	Б2.В.01(Пд)	Pre-graduate practice / Преддипломная практика									
	Block 3	FINAL STATE ASSESSMENT									
53.02(Д) Final qualification work / Выпускная квалификационная работа All GPC									All GPC	All GPC	All GPC
	Б3.02(Д)	Final qualification work / Выпускная квалификационная работа	All GPC	All GPC	All GPC						

				FESSIO PETEN		
Code	Titles of subjects and internship, forming competences		PC-2 Able to design the organization of joint and individual educational and educational activities of students, including those 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-4 Able to plan and organize interactions between participants in educational relations	PC-5 Able to design pedagogical activities on the basis of special scientific knowledge and research results
Б1	DISCIPLINES (MODULES)					
Б1.О	Mandatory part					
Б1.О.01	Core component					
Б1.О.01.01	Philosophy of EdGCation and Science / Философия образования и науки					
Б1.О.01.02	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности					
Б1.О.01.03	Cultural-historical and Activity Approach in Psychology and EdGCation / Культурно-исторический и деятельностный подход в пси-хологии и образовании					
Б1.О.01.04	Methodology of scientific research / Методология научного исследования					
Б1.О.01.05	Design and Expertise of EdGCational Systems / Проектирование и экспертиза образовательных систем					
Б1.О.02	Variable component	PC-1.2	PC-2.1, PC-2.2			
Б1.О.02.01	Innovative technologies in engineering education / Инновационные технологии в инженерном образовании	PC-1.1, PC-1.2				
Б1.О.02.02	Digital education / Организация цифрового образования				PC-4.1, PC-4.2	
Б1.О.02.03	Psychological - pedagogical technologies in education / Психолого-педагогические технологии в образовании		PC-2.1, PC-2.2			
Б1.О.02.04	Management of educational process / Менеджмент образовательного процесса			PC-3.1, PC-3.2		

P.C.5.2   Pechanologies of mixed and on-line courses / Планирование проектирование и про							DC 5.1
Reory and practice of engineering education / 1 сория и практика инженерного ооразования   PC-5.2	Б1.О.02.05	Theory and practice of technical subjects tutorial / Теория и практика обучения общетехническим дисциплинам					PC-5.1, PC-5.2
Б.1. В   В.1. В	Б1.О.02.06	Theory and practice of engineering education / Теория и практика инженерного образования					PC-5.1, PC-5.2
Б.В. ДВ 01   Digital production tecnologies / Цифровые технологии на производстве	Б1.О.02.07						
Б.В. ДВ 01   Digital production tecnologies / Цифровые технологии на производстве	Б1.В	The part formed by the participants of educational relations					
File   Bile	Б1.В. ДВ 01						
Ральная до пихец анд он-тнее courses / Планирование и проведение смешанных и он-лаин курсов  В.В. дВ 02  Возідя оf an educational program / Проектирование образовательной программы  Б.І.В. дВ 03  Тесhnological entrepreneurship / Технологическое предпринимательство  Б.І.В. дВ 03  Мападетент оf innovative activity at enterprise / Управление инновационной деятельностью на производстве  Б.І.В. дВ 04  Тесhnologies of cross-cultural education / Технологии кросс-культурного образования  Б.І.В. дВ 04  Мападетент оf conflicts in educational environment / Управление конфликтами в образовательной среде  ТКАІNING  Б.І.О. Манаtory part  Б.І.О.О.1  Variable component  Б.І.О.О.1  Б.І.О.О.1  Б.І.О.О.1  Б.І.О.О.1  Манадетент образовательной среде  ВОССО  Манадогурат  АП РС	Б1.В. ДВ 01	Innovation technologies of hi-tech branches / Инновационные технологии наукоемких отраслей					
БІ.В. ДВ 03 Теchnological entrepreneurship / Технологическое предпринимательство БІ.В. ДВ 03 Маладеment of innovative activity at enterprise / Управление инновационной деятельностью на производстве БІ.В. ДВ 04 Тесhnologies of cross-cultural education / Технологии кросс-культурного образования БІ.В. ДВ 04 Маладеment of conflicts in educational environment / Управление конфликтами в образовательной среде  ВІОСК 2 TRAINING  Б2.O Mandatory part  Б2.O.01 Variable component Б2.O.01 Variable component Б2.O.01 Variable component Б2.O.01 (учебная) Б2.О.01 (учебная) Б2.О.0	Б1.В. ДВ 02	Planning of mixed and on-line courses / Планирование и проведение смешанных и он-лайн курсов					
Бы. В.	Б1.В. ДВ 02	Design of an educational program / Проектирование образовательной программы	PC-2.1				
Fechnologies of cross-cultural education / Технологии кросс-культурного образования   Fechnologies of cross-cultural education / Технологии кросс-культурного образовательной среде   Fechnologies of cross-cultural education / Технологии кросс-культурного образовательной среде   Fechnologies of cross-cultural education / Технологии кросс-культурного образовательной среде   Fechnologies of cross-cultural education / Технологии кросс-культурного образовательной среде   Fechnologies of cross-cultural education / Texнологии кросс-культурного образовательной среде   Fechnologies of cross-cultural education / Texнологии кросс-культурного образования   Fechnologies of cross-cultural education / Texhonorum kpocc-культурного образовательной среде   Fechnologies of cross-cultural educational environment / Управление конфликтами в образовательной среде   Fechnologies of cross-cultural educational environment / Управление конфликтами в образовательной среде   Fechnologies of cross-cultural educational environment / Управление конфликтами в образовательной среде   Fechnologies of cross-cultural educational environment / Управление конфликтами в образовательной среде   Fechnologies of cross-cultural educational	Б1.В. ДВ 03	Technological entrepreneurship / Технологическое предпринимательство					
Бы. В. ДВ 04Management of conflicts in educational environment / Управление конфликтами в образовательной средеМетрон (Станк) и предоставления в образовательной средеBlock 2TRAININGE2.O.Mandatory partAll PCAll PC </td <td>Б1.В. ДВ 03</td> <td>Management of innovative activity at enterprise / Управление инновационной деятельностью на производстве</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Б1.В. ДВ 03	Management of innovative activity at enterprise / Управление инновационной деятельностью на производстве					
Block 2         TRAINING           62.0         Mandatory part           62.0.01         Variable component         All PC All P	Б1.В. ДВ 04						
Б2.О       Mandatory part         Б2.О.01       Variable component       All PC	Б1.В. ДВ 04	Management of conflicts in educational environment / Управление конфликтами в образовательной среде					
Б2.О.01       Variable component       All PC       All PC <td>Block 2</td> <td>TRAINING</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Block 2	TRAINING					
Fig. 20.01.01(У)   Pedagogical training / Педагогическая практика (учебная)   All PC   All	Б2.О	Mandatory part					
Fig. 20.01.02(V)   Introductory practice / Ознакомительная практика   All PC   Al	Б2.О.01	Variable component	All PC				
Fig. 20.01.02(V)   Introductory practice / Ознакомительная практика   All PC   Al	Б2.О.01.01(У)	Pedagogical training / Педагогическая практика (учебная)	All PC				
Б2.0.01.04(П)Pedagogical training / Педагогическая практикаAll PCAll PC			All PC	All PC			
Б2.ВThe part formed by the participants of educational relationsБ2.В.01(Пд)Pre-graduate practice / Преддипломная практикаAll PC   All PC	Б2.О.01.03(Н)	Research work / Научно-исследовательская работа	All PC				
Fig. B.01(Пд)   Pre-graduate practice / Преддипломная практика   All PC	Б2.О.01.04(П)	Pedagogical training / Педагогическая практика	All PC				
Block 3     FINAL STATE ASSESSMENT       63.01(Г)     State exam / Государственный экзамен       All PC     All PC       All PC     All PC   All PC	Б2.В	The part formed by the participants of educational relations					
БЗ.01(Г) State exam / Государственный экзамен All PC   A	Б2.В.01(Пд)	Pre-graduate practice / Преддипломная практика	All PC				
	Block 3						
БЗ.02(Д) Final qualification work / Выпускная квалификационная работа All PC   All	Б3.01(Г)		All PC				
	Б3.02(Д)	Final qualification work / Выпускная квалификационная работа	All PC				