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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
NAMED AFTER PATRICE LUMUMBA  
RUDN University**

**Academy of Engineering**

educational division (faculty/institute/academy) as higher education programme developer

Approved at the meeting of the Academic Council of RUDN University  
Protocol No. 17  
October 23, 2023  
(date, month, year)

Opened by order of the Rector of RUDN University  
No. 582  
November 20, 2023  
(date, month, year)

**PROFESSIONAL EDUCATION PROGRAMME OF HIGHER EDUCATION**  
Field of Studies/ Speciality:

**27.04.05 Innovatics**

(field of studies / speciality code and title)

Profile/Specialisation:

**Digital Transformation in Production Management**

(higher education programme title)

The Educational Programme is developed in compliance with:

**Educational Standard of RUDN University**, approved by Order of the Rector No. 371 dated May 21, 2021

Level of education:

**master's**

(bachelor's / specialist's / master's – to fill in the required)

Graduate's Qualification:

**Master**

(graduate's qualification in compliance with the order of the Ministry of Education and Science of Russian Federation dated September 12, 2013, No. 1061)

Length of Educational Programme:

**2 years**

(full-time education)

(part-time education)

(correspondence education)

AGREED by:

Head  
of Educational Programme

Chairperson  
of Didactic Council

Head  
of Educational  
Department

E.A. Kovaleva

Yu.N. Razoumny

Yu.N. Razoumny

(signature)

(signature)

(signature)

(day, month, year)

(day, month, year)

(day, month, year)

2024

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

The program is focused on training highly qualified specialists in the field of creating and managing innovations at various stages of the life cycle. 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, dealing with innovation management in the design, research, production and operation of systems and controls in the industrial and defense industries, in the economy, in transport, in agriculture, medicine, etc.

The program is designed in such a way that it allows students to form the most popular universal, general professional and professional competencies today, the development of skills for their implementation in professional activities in accordance with the requirements of the Educational Standards 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 creating and managing innovations at various stages of the life cycle.

## **2. RELEVANCE, SPECIFICITY, UNIQUENESS OF THE EDUCATIONAL PROGRAM**

Innovation today is a key competitive advantage of organizations aimed at continuous development and sustainable growth. This is due to the accelerating pace of change that is taking place in the global economy. Qualified managers who are able to implement promising ideas in a timely and high-quality manner are in high demand. This, in turn, requires a special approach to the training of managers, based on the synthesis of sound theoretical positions and practical conclusions.

The program is aimed at training masters in the field of innovation management, 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 technical, managerial and economic disciplines, as a result, graduates of the program will be prepared to develop innovative development programs at various levels, manage high-tech industries, solve managerial and economic problems at all stages of business management, and create an innovative business

## **3. ПОТРЕБНОСТИ РЫНКА ТРУДА В ПОДГОТОВКЕ КАДРОВ ПО ПРОФИЛЮ ОП ВО**

In recent years, the share of industrial organizations implementing innovations has tripled and is more than 20% at the beginning of 2020. The innovative activity of industrial production organizations increased by 1.5 times (from 10% in 2016 to 15% at the beginning of 2020). In the field of information technology, software development and telecommunications, the trends are similar: the share of organizations engaged in technological innovation has doubled to about 15%. Statistics confirm the need of the labor market for specialists in the field of innovation management.

The program is distinguished by its focus on the economics of high-tech industries, and will make it possible to train professionals capable of creating innovations, economically justifying complex high-tech production projects, developing programs for the development of high-tech industry and calculating their effectiveness.

## **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 <http://www.rudn.ru/admissions>.

## **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. If necessary, the educational program can be adapted to teach disabled people and people with limited abilities. Elements of e-learning and remote learning technologies used in the education of disabled people and people with limited abilities provide for the possibility of receiving and transmitting information in forms suitable to them.

5.4. The EP of HE is implemented by the Peoples' Friendship University of Russia named

after Patrice Lumumba.

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 the professional standard	Generalized labor functions			Labor functions		
	Code	Title	Qualification level	Code	Name	Qualification level
40.033 Specialist in strategic and tactical planning and organization of production	B	Strategic management of the processes of planning and organization of production at the level of an industrial organization	7	B/01.7	Strategic management of production resource and capacity planning processes	7
				B/02.7	Strategic management of the processes of organizational and technological modernization of production	7
	C	Strategic management of projects and programs for the introduction of new methods and models of organization and planning of production at the level of an industrial organization	7	C/01.7	Organization of research and development of promising methods, models and mechanisms for the organization and planning of production	7
				C/02.7	Management of projects for reengineering business processes of an industrial organization using modern information technologies	7

## 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 Able to carry out a critical analysis of problem situations on the basis of a systematic approach, to develop an action strategy	GC-1.1. Analyzes the problem situation and decomposes it into separate tasks.
	GC-1.2. Forms possible solutions to problems
GC-2 Able to manage the project at all stages of its life cycle	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 team, developing a team strategy to achieve the goal	GC-3.1. Demonstrates knowledge of the principles of teamwork.
	GC-3.2. Supervises team members to solve assigned tasks
GC-4 Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	GC-4.1. Carries out academic and professional interaction, including in a foreign language.
	GC-4.2. Uses modern information and communication tools 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-5.1. Demonstrates an understanding of different cultures GC-5.2. Builds social interaction, taking into account the common and different features of cultures and religions
GC-6 Able to determine and implement the priorities of their own activities and ways to improve them on the basis of self-esteem	GC-6.1. Assesses their resources and their limits (personal, situational, temporary), optimally uses them for the successful 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. 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.	UC-7.1 Effectively finds sources of necessary information. UC-7.2 Owns methods of analysis and evaluation of information

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

<b>Code and descriptor of the competence</b>	<b>Code and competence level indicator</b>
GPC-1 Able to analyze and identify the natural science essence of control problems in technical systems on the basis of provisions, laws and methods in the field of mathematics, natural and technical sciences	GPC-1.1. Analyzes management tasks in technical systems, highlighting the basic components, performs task decomposition OPK -1.2. Competently, logically, reasonably forms their own judgments and assessments
GPC-2 Able to formulate management problems in technical systems and justify methods for solving them	GPC-2.1. Selects the best methods for solving control problems in technical systems GPC-2.2. Competently formulates management tasks in technical systems
GPC-3 Able to independently solve control problems in technical systems based on the latest achievements of science and technology	GPC-3.1. Independently finds sources of information for solving management problems in technical systems GPC-3.2. Demonstrates the basic principles of solving control problems in technical systems
GPC-4 Able to develop criteria for evaluating management systems in the field of innovation based on modern mathematical methods, to develop and implement management decisions to improve their efficiency	GPC-4.1. Formulates criteria for assessing the effectiveness of innovation management GPC-4.2. Demonstrates knowledge of mathematical methods necessary for making management decisions
GPC-5 Able to conduct patent research, determine the forms and methods of legal protection and protection of rights to the result of intellectual activity, dispose of the rights to them to solve problems in the field of development of science, technology and technology	GPC-5.1. Solves problems related to the use of intellectual activity to create innovative products and services GPC-5.2. Demonstrates knowledge of forms, methods of legal protection and protection of rights to the result of intellectual activity;
GPC-6 Able to collect and analyze scientific and technical information, summarize domestic and foreign experience in the field of innovation management and building innovation ecosystems	GPC-6.1. Independently finds reliable sources of scientific and technical information GPC-6.2. Demonstrates knowledge of methods of summarizing information in the field of innovation management
GPC-7 Able to reasonably select and justify structural, algorithmic, technological and software solutions for managing innovation processes and projects, implement them in practice in relation to the innovation systems of the enterprise, industry and regional innovation	GPC-7.1. Demonstrates knowledge of technological and software solutions for managing innovation processes GPC-7.2. Demonstrates knowledge of the features of industry and regional innovation systems

systems	
GPC-8 Able to perform experiments at existing facilities according to specified methods and process the results using modern information technologies and technical	OPK-8.1. Performs the experiment according to the specified methods OPK-8.2. Demonstrates knowledge of modern information technologies necessary to summarize the results of the experiment
GPC-9 Able to solve professional problems based on the history and philosophy of innovations, mathematical methods and models for innovation management, knowledge of the features of the emerging technological structures and the fourth industrial revolution in the innovation sphere	GPC-9.1. Demonstrates knowledge of the history and philosophy of innovations and uses them to solve problems GPC-9.2 Demonstrates knowledge of technological structures and uses them to solve problems
GPC-10 Able to develop, combine and adapt algorithms and software applications suitable for solving practical problems of digitalization in the field of professional activity	GPC-10.1 Develops algorithms and software applications necessary to solve the problem of digitalization GPC-10.2. Shows knowledge of key digitalization trends
GPC-11 Able to develop, combine and adapt algorithms and software applications suitable for solving practical problems of digitalization in the field of professional activity	GPC-11.1. Develops algorithms and software applications for solving practical problems GPC-11.2. Shows knowledge of methods of combining algorithms

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

<b>Code and descriptor of professional competence</b>	<b>Code and competence level indicator</b>	<b>Code and title of occupational standard for relevant PC</b>
PC-1 The ability to organize the work of the creative team to achieve the scientific goal, to find and make management decisions, to evaluate the quality and effectiveness of labor, costs and results of the research and production team	PC-1.1 Demonstrates knowledge of the key principles of managing a creative team PC-1.2. Uses tools for assessing the quality and effectiveness of work	40.033 Specialist in strategic and tactical planning and organization of production
PC-2 The ability to find (choose) the best solutions when creating new high-tech products, taking into account the requirements of quality, cost, deadlines, competitiveness and environmental safety	PC-2.1. Demonstrates knowledge of assessing the quality, cost and competitiveness of an innovative product or service PC-2.2. Uses methods for assessing environmental safety	
PC-3 Ability to develop a plan and program for the organization of innovative activities of the research and production unit, to carry out a feasibility study of innovative projects and programs	PC-3.1. Uses methods of technical and economic design of innovative industries PC-3.2 Develops a plan and program for the organization of innovative activities	

**8. MATRIX OF COMPETENCES** that students acquire when mastering the Educational Programme «Digital Transformation in Production Management» in the field of studies 27.04.05 Innovatics

Code	Titles of subjects and internship, forming competences	GENERIC 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 manage the work of the team, developing a team strategy to achieve the goals	GC-4: Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	GC-5: Способен анализировать и учитывать разнообразие культур в процессе межкультурного взаимодействия	GC-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment	GC-7: Able to: search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as with data obtained from various sources in order to effectively use the information received to solve problems
<b>B1</b>	<b>DISCIPLINES (MODULES)</b>							
<b>B1.O</b>	<b>Mandatory part</b>							
<b>B1.O.01</b>	<b>Core component</b>	GC-1.1	GC-2.1, GC-2.2		GC-4.1	GC-5.1, GC-5.2		GC-7.1, GC-7.2
B1.O.01.01	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности				GC-4.1	GC-5.1, GC-5.2		
B1.O.01.02	Methodology of Scientific Research / Методология научного исследования	GC-1.1						
B1.O.01.03	Design of automated control systems / Проектирование автоматизированных систем управления		GC-2.1, GC-2.2					GC-7.1, GC-7.2
<b>B1.O.02</b>	<b>Variable component</b>	GC-1.2		GC-3.1, GC-3.2	GC-4.2		GC-6.1, GC-6.2	GC-7.1, GC-7.2
B1.O.02.01	Big data mining / Обработка больших данных							

Б1.О.02.02	Information Technology in Mathematical Modelling / Информационные технологии в математическом моделировании	GC-1.2							
Б1.О.02.03	Numerical methods for solving mathematical modeling problems / Численные методы решения задач математического моделирования	GC-1.2						GC-6.1, GC-6.2	
Б1.О.02.04	Management of business operations of hi-tech industries / Управление операционной деятельностью наукоемких производств								
Б1.О.02.05	Strategic Development of an Innovative Enterprise / Стратегическое развитие инновационного предприятия								
Б1.О.02.06	Innovation technologies of personnel management / Инновационные технологии управления персоналом			GC-3.1, GC-3.2	GC-4.2				
Б1.О.02.07	Digital technologies of innovative production / Цифровые технологии инновационного производства				GC-4.2				
Б1.О.02.08	Geoinformation Systems and Applications / Геоинформационные системы и их применение	GC-1.2							GC-7.1, GC-7.2
Б1.О.02.09	Strategic controlling at innovative enterprise / Стратегический контроллинг на инновационном предприятии								
Б1.О.02.10	Economy of hi-tech production branches / Экономика высокотехнологичных отраслей промышленности								
Б1.О.02.11	Marketing of innovative products / Маркетинг инновационных продуктов								
Б1.О.02.12	Management of supply chains at innovative enterprise / Управление цепями поставок на инновационном предприятии								
Б1.О.02.13	Run-time controlling at innovative enterprise / Оперативный контроллинг на инновационном предприятии								
<b>Б1.В</b>	<b>The part formed by the participants of educational relations</b>								
Б1.В.ДВ.01.01	Ecological management at innovative enterprise / Экологический менеджмент на инновационных предприятиях								
Б1.В.ДВ.01.02	Innovative technologies of ecological management in industries / Инновационные технологии природопользования в отраслях промышленности								
Б1.В.ДВ.02.01	Assessment of innovative-investment projects effectiveness / Оценка эффективности инновационно-инвестиционных проектов			GC-3.2					
Б1.В.ДВ.02.02	International sci-tech cooperation / Международное научно-техническое сотрудничество			GC-3.2					
<b>Block 2</b>	<b>TRAINING</b>								
<b>Б2.О</b>	<b>Mandatory part</b>								
Б2.О.01	<b>Variable component</b>								
Б2.О.01.01(У)	Introductory training / Ознакомительная практика								
Б2.О.01.02(У)	Organisation and managerial practice (educational) / Организационно-управленческая практика								





Code	Titles of subjects and internship, forming competences	GENERAL PROFESSIONAL COMPETENCIES										
		GPC-1 Able to analyze and identify the natural science essence of control problems in technical systems on the basis of provisions, laws and methods in the field of mathematics, natural and technical sciences	GPC-2 Able to formulate management problems in technical systems and justify methods for solving them	GPC-3 Able to independently solve control problems in technical systems based on the latest achievements of science and technology	GPC-4 Able to develop criteria for evaluating management systems in the field of innovation based on modern mathematical methods, to develop and implement management decisions to improve their efficiency	GPC-5 Able to conduct patent research, determine the forms and methods of legal protection and protection of rights to the result of intellectual activity, dispose of the rights to them to solve problems in the field of development of science, technology and technology	GPC-6 Able to collect and analyze scientific and technical information, summarize domestic and foreign experience in the field of innovation management and building innovation ecosystems	GPC-7 Able to reasonably select and justify structural, algorithmic, technological and software solutions for managing innovation processes and projects, implement them in practice in relation to the innovation systems of the enterprise, industry and regional innovation systems	GPC-8 Able to perform experiments at existing facilities according to specified methods and process the results using modern information technologies and technical	GPC-9 Able to solve professional problems based on the history and philosophy of innovations, mathematical methods and models for innovation management, knowledge of the features of the emerging technological structures and the fourth industrial revolution in the innovation sphere	GPC-10 Able to develop, combine and adapt algorithms and software applications suitable for solving practical problems of digitalization in the field of professional activity	GPC-11 Able to develop, combine and adapt algorithms and software applications suitable for solving practical problems of digitalization in the field of professional activity
<b>Б1</b>	<b>DISCIPLINES (MODULES)</b>											
<b>Б1.О</b>	<b>Mandatory part</b>											
<b>Б1.О.01</b>	<b>Core component</b>	GPC-1.1, GPC-1.2	GPC-2.1, GPC-2.2	GPC-3.1	GPC-4.1, GPC-4.2	GPC-5.2	GPC-6.1, GPC-6.2	GPC-7.1, GPC-7.2	GPC-8.1, GPC-8.2	GPC-9.1, GPC-9.2	ОПК-10.1, ОПК-10.2	ОПК-11.1, ОПК-11.2
Б1.О.01.01	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности											ОПК-11.1, ОПК-11.2
Б1.О.01.02	Methodology of Scientific Research / Методология научного исследования	GPC-1.1, GPC-1.2	GPC-2.1, GPC-2.2	GPC-3.1		GPC-5.2						
Б1.О.01.03	Design of automated control systems / Проектирование автоматизированных систем управления				GPC-4.1, GPC-4.2		GPC-6.1, GPC-6.2	GPC-7.1, GPC-7.2	GPC-8.1, GPC-8.2		ОПК-10.1, ОПК-10.2	
<b>Б1.О.02</b>	<b>Variable component</b>		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-6.1, GPC-6.2	GPC-7.1, GPC-7.2	GPC-8.2	GPC-9.1, GPC-9.2		
Б1.О.02.01	Big data mining / Обработка больших данных				GPC-4.2				GPC-8.2			
Б1.О.02.02	Information Technology in Mathematical Modelling /				GPC-4.2							





Code	Titles of subjects and internship, forming competences	PROFESSIONAL COMPETENCIES		
		PC-1 The ability to organize the work of the creative team to achieve the scientific goal, to find and make management decisions, to evaluate the quality and effectiveness of labor, costs and results of the research and production team	PC-2 The ability to find (choose) the best solutions when creating new high-tech products, taking into account the requirements of quality, cost, deadlines, competitiveness and environmental safety	PC-3 Ability to develop a plan and program for the organization of innovative activities of the research and production unit, to carry out a feasibility study of innovative projects and programs
<b>B1</b>	<b>DISCIPLINES (MODULES)</b>			
<b>B1.O</b>	<b>Mandatory part</b>			
<b>B1.O.01</b>	<b>Core component</b>			
B1.O.01.01	Professional Russian (as a Foreign Language) / Русский язык (как иностранный) в профессиональной деятельности			
B1.O.01.02	Methodology of Scientific Research / Методология научного исследования			
B1.O.01.03	Design of automated control systems / Проектирование автоматизированных систем управления			
<b>B1.O.02</b>	<b>Variable component</b>	PC-1.1, PC-1.2	PC-2.1, PC-2.2	PC-3.1, PC-3.2
B1.O.02.01	Big data mining / Обработка больших данных			PC-3.2
B1.O.02.02	Information Technology in Mathematical Modelling / Информационные технологии в математическом моделировании			
B1.O.02.03	Numerical methods for solving mathematical modeling problems / Численные методы решения задач математического моделирования			
B1.O.02.04	Management of business operations of hi-tech industries / Управление операционной деятельностью наукоемких производств		PC-2.1	PC-3.2
B1.O.02.05	Strategic Development of an Innovative Enterprise / Стратегическое развитие инновационного предприятия			PC-3.2
B1.O.02.06	Innovation technologies of personnel management / Инновационные технологии управления персоналом	PC-1.1, PC-1.2		
B1.O.02.07	Digital technologies of innovative production / Цифровые технологии инновационного производства			PC-3.2
B1.O.02.08	Geoinformation Systems and Applications / Геоинформационные системы и их применение		PC-2.2	

Б1.О.02.09	Strategic controlling at innovative enterprise / Стратегический контроллинг на инновационном предприятии		PC-2.1	PC-3.2
Б1.О.02.10	Economy of hi-tech production branches / Экономика высокотехнологичных отраслей промышленности		PC-2.1	
Б1.О.02.11	Marketing of innovative products / Маркетинг инновационных продуктов		PC-2.1	
Б1.О.02.12	Management of supply chains at innovative enterprise / Управление цепями поставок на инновационном предприятии		PC-2.1	
Б1.О.02.13	Run-time controlling at innovative enterprise / Оперативный контроллинг на инновационном предприятии			PC-3.1
<b>Б1.В</b>	<b>The part formed by the participants of educational relations</b>			
Б1.В.ДВ.01.01	Ecological management at innovative enterprise / Экологический менеджмент на инновационных предприятиях		PC-2.2	
Б1.В.ДВ.01.02	Innovative technologies of ecological management in industries / Инновационные технологии природопользования в отраслях промышленности		PC-2.2	
Б1.В.ДВ.02.01	Assessment of innovative-investment projects effectiveness / Оценка эффективности инновационно-инвестиционных проектов		PC-2.1	
Б1.В.ДВ.02.02	International sci-tech cooperation / Международное научно-техническое сотрудничество		PC-2.1	
<b>Block 2</b>	<b>TRAINING</b>			
<b>Б2.О</b>	<b>Mandatory part</b>			
Б2.О.01	<b>Variable component</b>			
Б2.О.01.01(У)	Introductory training / Ознакомительная практика	АII PC	АII PC	АII PC
Б2.О.01.02(У)	Organisation and managerial practice (educational) / Организационно-управленческая практика (учебная)	АII PC	АII PC	АII PC
Б2.О.01.03(П)	Organisation and managerial practice / Организационно-управленческая практика	АII PC	АII PC	АII PC
<b>Б2.В</b>	<b>The part formed by the participants of educational relations</b>			
Б2.В.01(Пд)	Pre-graduate practice / Преддипломная практика	АII PC	АII PC	АII PC
<b>Block 3</b>	<b>FINAL STATE ASSESSMENT</b>			
Б3.01(Г)	State exam / Государственный экзамен	АII PC	АII PC	АII PC
Б3.02(Д)	Final qualification work / Выпускная квалификационная работа	АII PC	АII PC	АII PC