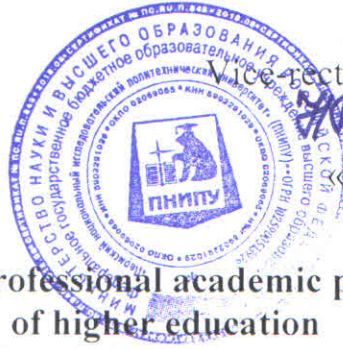




Ministry of Science and Higher Education of the Russian Federation

State Federal-Funded Educational Institution
of Higher Professional Training
**Perm National Research
Polytechnic University**

Humanities department
Chair «Economics and Industrial Production Management»



APPROVED

Vice-rector for education

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«18» 06 2020

**Major professional academic program
of higher education
Master degree program**

GENERAL DESCRIPTION

Competency based graduate model (CGM)

Training program:	38.04.01 Economics
Orientation (profile) of academic program:	Oil and Gas Enterprise Management and Economics
Graduate qualification:	Master's degree
Mode of study:	Full-time, part-time, distance,
Term of apprenticeship:	Full-time - 2 years; part-time, distance – 2 years 6 months
Graduate chair:	Economics and Industrial Production Management

Introduction

Major professional academic program (MPAP) of higher education – master degree program «Oil and Gas Enterprise Management and Economics» developed according to the requirements of SIES on the training program 38.04.01 Economics approved by the resolution of the Academic Board of PNRPU of 31.01.2019, minutes №5 and put into effect on 01.03.2019 by the order of the university rector of 04.02.2019 № 8-O.

General description of the major professional academic program including also competency based graduate model (CBM) represents the academic program description provided by the Rules of publishing on the official website of the educational organization in the data telecommunications network "Internet" and updating of information about the educational organization (approved by the RF Government Regulation of July 10, 2013 N 582).

Content

1. Terms, definitions, references and abbreviations
2. General description of the academic program
3. Competency based graduate model
 - 3.1. Description of professional activity of the graduate
 - 3.2. Competency passport of MPAP
 - 3.2.1 Planned results of the major professional academic program acquisition
 - 3.2.2 Table of relations between competencies and educational subjects
 - 3.2.3 Stages of the competency based graduate model development
4. Conditions of MPAP implementation

Appendix 1. Indicators of Competence Achievement

Appendix 2. Relational matrix between competencies and educational subjects

Appendix 3. Stages of competence development

Appendix 4. Information about staff assistance of the major professional academic program

1. Terms, definitions, references and abbreviations

1.1 Terms and definitions

The following terms and definitions are used in this document:

1.1.1 **orientation (profile) of education (educational program)** – orientation of an educational program to the specific knowledge areas and (or) types of activity as well as

prevailing learning activity of students that determines its particular and subject content and requirements to the results of its studying;

1.1.2 PNRPU educational standard – a set of requirements binding upon all PNRPU departments participating in the development and implementation of major professional academic programs of this field of education or higher education specialty;

1.1.3 major professional academic program of higher education – a group of the principal features of education (volume, content, planned results), organizational and pedagogical conditions and appraisal forms presented in the form of AP general characteristics, an education plan, a calendar academic schedule, work programs of educational subjects (modules), internship programs, estimated and methodological materials;

1.1.4 exemplary principal academic program - educational and methodological documentation (an exemplary education plan, an exemplary calendar academic schedule, exemplary work programs of subjects of study, courses, educational subjects (modules), other components) that determines the recommended volume and content of education at a certain level and (or) certain orientation, planned results of an educational program studying, exemplary conditions of educational activity including the exemplary calculations of standard expenses for providing public services of an educational program implementation;

1.1.5 planned results of an academic program studying – competencies of students established by the educational standard and competencies of students established by the academic program, taking into account orientation (profile) of an academic program (if any of such competencies are specified);

1.1.6 general competencies – graduate competencies that reflect the demands of the society and personality for universal cultural and social and personal qualities of a graduate from the higher education program of an appropriate level including professional characteristics that determine integration of the educational level into the national system of professional qualifications;

1.1.7 general professional competencies - graduate competencies that reflect the demands of the labour market concerning the mastery of fundamental professional activity grounds by the graduates of higher education programs on the orientation (specialty) of training, taking into account the potential development of activity field or fields (regardless of the program orientation to the particular objects of activity or knowledge area);

1.1.8 professional competencies - graduate competencies that reflect the demands of the labour market concerning the preparedness of a graduate from the higher education of an appropriate level and the field of education to perform certain tasks of professional activity and related job functions from professional standards for the appropriate level of professional qualification;

1.1.9 indicators of competency achievement – integrated characteristics specifying and defining the competency. Indicators can be presented in the form of integrated results of study or in the form of specific actions performed by the graduate who has studied this competency. Indicators of competency achievement must be measured with the help of methods available in the educational process;

1.1.10 **results of study** (planned) – knowledge, practical skills, mastery of experience, acquired and demonstrated by the students after the end of the educational subject (module) or internship;

1.1.11 **professional standard** – characteristics of a qualification that an employee needs to carry out a certain type of professional activity;

1.1.12 **field of professional activity** (of a graduate) – a set of types of graduates' professional activity having the common grounds (the same or similar purpose, objects, technologies including facilities) and suggesting a similar set of labour functions and appropriate competencies for their performance; corresponds to one or several types of economic activity;

1.1.13 **sphere of professional activity** (of a graduate) – a segment of a field of professional activity or related fields of professional activity including the type(s) of professional activity characterized by the set of specific objects of professional activity; as well as the branch (or field) or labour that has certain limits of application.

1.1.14 **type of professional activity** (of a graduate) – a set of integrated labour functions, which can be performed by the graduates who have similar conditions, character and results of labour;

1.1.15 **integrated labour function** – a set of interrelated labour functions developed as a result of division of labour in the particular production (business-) process;

1.1.16 **labour function** – a set of interrelated labour actions aimed at solution of one or several tasks of the labour process, performance of a relatively independent and complete part of a labour process within the integrated labour function;

1.1.17 **labour action** – the process of an employee's interaction with the object of labour, due to which a certain objective is achieved;

1.1.18 **object of professional activity** (of a graduate) – a phenomenon, an object, a process under the effect of professional activity. The terms «object» and «**subject** of professional activity» are considered as synonyms in the professional activity connected with material production; it is necessary to separate these notions in immaterial sphere connected with scientific research, creative work, etc. In this case the notion of a subject is not the synonym of the notion of an object and is connected with properties or relations of the object, learning of which is important for solution of professional tasks;

1.1.19 **aim of professional activity** (of a graduate) – the purpose set under certain conditions, that can be achieved by certain arrangements with the object (a set of objects) of professional activity;

1.1.20 **types of professional activity tasks** – conventional division of professional activity tasks according to the character of actions performed for the set purpose achievement;

1.2 Notations and abbreviations

In this document the following notations and abbreviations are used:

GQW – graduate qualification work;

HE – higher education;

SE – state examination;

CP – credit point;

SRW – scientific research work;

GPC – general professional competences;

MPAP – major professional academic program of higher education;
IJF – integrated job function;
PA – professional activity;
PC – professional competency;
PNRPU – Perm National Research Polytechnic University;
EMAP – exemplary major academic program according to the field of education;
PS – professional standard;
POS – profession-oriented specialized competency;
SIW – student individual work;
SIES – self-imposed educational standard;
GC – general competency;
APD – academic program department of PNRPU;
SFFEI – State Federal-Funded Educational Institution;
FSES – Federal State Educational Standard;

1.3 References

In this document references to the following laws and regulations and local normative acts:

Federal Law No. 273-FZ of December 29, 2012 «On Education in the Russian Federation»;

Rules of participation of employers' association in monitoring and forecasting of economy needs for the skilled staff as well as for development and realization of the state policy in the field of secondary professional education and higher education, affirmed by the Resolution of the Government of the Russian Federation of February 10, 2014 № 92;

Procedure of organization and carrying out of educational activity on academic programs of higher education – Bachelor Degree Programs, specialist programs, Master Degree programs, affirmed by the order of the Ministry of Science and Higher Education of RF of 05.04.2017 № 301;

Procedure for conducting State Final Certification on academic programs of higher education – Bachelor Degree Programs, specialist programs and Master Degree programs, affirmed by the order of the Ministry of Science and Higher Education of Russia of June 29, 2015 № 636;

Self-imposed educational standard on the training program of higher education – Master degree program 38.04.01 Economics, adopted by the Academic board of PNRPU 27.12.2018, minutes №4 and put into effect since 01.01.2019 by the order of rector of 28.12.2018 № 106-O.

PNRPU Charter;

Regulation on the procedure for development and adoption of self-imposed educational standards of higher education of PNRPU and making amendments in them;

Regulation on the procedure for development and adoption of the major professional academic program of higher education - Bachelor Degree Program, specialist program, Master Degree program.

2. General description of the academic program

2.1 Purpose and objectives of MPAP

The purpose of MPAP implementation is the students' study of the Master Degree program, orientation «Oil and Gas Enterprise Management and Economics», the result of which is the graduate's development of competencies according to SIES of HE PNRPU on this training program and professional competencies established for this MPAP orientation;

The objectives of MPAP implementation are development of knowledge, abilities and skills, professional activity experience within the study of separate educational subjects (modules), as well as internship necessary for performance of the specific types of professional activity objectives, which the graduate prepares for.

2.2 Education form

Training on the Master Degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» is conducted in full time and distance modes of study.

2.3 Demands made on entrants

Training on the Master Degree programs on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» is allowed to people with higher education of any level.

Admission to the training on the Master Degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» is conducted on a competitive basis on the results of the entrance examination according to the entrance examination program.

2.4 Language of teaching

The academic activity on the Master Degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» at PNRPU is conducted in the official language of the Russian Federation.

2.5 Program volume and duration of study

The volume of the Master Degree program 38.04.01 «Economics» of MPAP «Oil and Gas Enterprise Management and Economics» is 120 credit points and is determined as the student's academic workload during this program study and contains all kinds of learning activity provided by the education plan for achievement of the planned results of study.

The volume of the academic program offered for one academic year is not more than 70 CP regardless of the education form, applied education technologies, implementation of the Master Degree program by means of the network form, implementation of the Master Degree program on the individual education plan (except for accelerated education), and in case of accelerated education – not more than 80 CP.

The duration of the Master Degree program is

- in full-time form of training, including vacations provided after State Final Certification is 2 years;
- in part-time or distance forms of training is 2 years 6 months.

3. Competency based graduate model

3.1 Description of professional activity of the graduate

3.1.1 Field and sphere of professional activity of the graduates

The field of professional activity and sphere (spheres) of professional activity where graduates who completed the Master degree program on the field of education 38.04.01

«Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» at PNRPU can carry out the professional activity:

01 Education and science (in the spheres of general, vocational secondary, supplementary vocational education and higher education; scientific research);

08 Finance and economics

in the sphere of research, analysis and forecasting of social and economic processes and phenomena at micro and macro levels in expert and analytical services (centres of economic analysis, government sector, non-governmental organizations);

in the sphere of manufacture of products and services, including the analysis of demand for products and services and evaluation of their current and potential supply, promotion of products and services to the market, planning and servicing of cash flows connected with the production activity;

in the spheres of crediting, insurance, including retirement and social insurance, financial market operations;

in the spheres of internal and external financial control and auditing, financial consulting, risk management;

in the sphere of consulting;

in the sphere of assessment.

Graduates can carry out professional activity in other fields of professional activity and spheres of professional activity if the level of their education and acquired competencies corresponds to the requirements for the employee's qualification.

3.1.2 Type (types) of tasks and tasks of graduates' professional activity

Within the Master degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» at PNRPU, graduates prepare for solution of professional activity tasks of the following types:

research;

project and economic;

organizational and managerial.

Tasks of graduates' professional activity are presented in section 4 of Appendix 1.

3.2 Competency passport of MPAP

Competency passport of MPAP contains their list (table 3.1); indicators of competency achievement (Appendix 1); relational matrix between competencies and educational subjects (Appendix 2) and stages of competency development (Appendix 3). Moreover, the latter document plays the role of a link between the marks on the educational subject (internship) received for the midterm assessment and results of MPAP study in the form of the graduate's acquired competencies. The result of MPAP study in the form of a developed competency from the table of Appendix 3 is considered to be obtained in case of positive marks received for the midterm assessment on all educational subjects and internships specified in the line that corresponds to the index of this competency.

3.2.1 Planned results of the major professional academic program study

Planned results of the Master degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» are determined by the competencies formed by the graduate, i.e. their ability to apply knowledge, skills, proficiency, as well as personal qualities according to the types of professional activity tasks.

As a result of the Master's degree program learning on the field of education 38.04.01 «Economics» of the direction (profile) «Oil and Gas Enterprise Management and Economics» the graduate must have competencies, which are formed in the learning process of this MPAP, determined on the grounds of SIES of HE PNRPU on the field of education 38.04.01 «Economics», and professional competencies, self-imposed in the master's degree program, formed on the grounds of professional standards corresponding to professional activity of graduates as well as other requirements including regional requirements made on the graduates at the labour market.

List of competencies under formation

Table 3.1

Name of category (group) of competencies	Code and name of the competency of the academic program graduate
General competencies of Master's degree program's graduates	
Operational and critical thinking	GC-1. Able to carry out the critical analysis of problem situations on the basis of system approach and develop the performance strategy
Development and implementation of projects	GC-2. Able to manage the project at all stages of its life cycle
Teamwork and leadership	GC-3. Able to organize and manage teamwork developing the team strategy for the end of purpose
Communication	GC-4. Able to apply modern communication technologies including those in foreign language(s) for academic and professional exchange
Intercultural exchange	GC-5. Able to analyze and take into account the variety of cultures in the process of intercultural exchange
Self-organization and self-development (including health preservation)	GC-6. Able to set and realize priorities of their own activity and means of its perfection on the grounds of self-assessment
General Professional Competencies of graduates of the Master's degree program of the field of education 38.04.01«Economics»	
Theoretical academic training	GPC-1. Able to apply knowledge (at the advanced level) of academic economic science for solution of practical and/or research tasks
Analysis	GPC-2. Able to apply advanced instrumental methods of economic analysis in applied and/or fundamental research
Research	GPC-3. Able to summarize and critically evaluate scientific research in economics
Organization and management	GPC-4. Able to make economically and financially justified organizational and management decisions in professional activity and bear the responsibility for them

Information culture	GPC-5. Able to apply modern information technologies and software for solution of professional tasks
General Professional Competencies of graduates of the field of education 38.04.01«Economics» PNRPU	
Development and implementation of projects	PC-1. Able to carry out an independent applied or fundamental scientific research project in the field of economics
Professional competencies of the Master's degree program's graduates «Oil and Gas Enterprise Management and Economics» PNRPU	
	Types of professional activity tasks: <i>scientific and research</i>
research	PC-1.1. Capable of economic goal setting of strategic management.
research	PC-1.2. Capable of development of economic models of company activity.
	Type of tasks of professional activity: <i>project and economic</i>
project and economic	PC-2.3. Able to manage the efficiency of an investment project at oil and gas enterprises
project and economic	PC-2.5. Able to assess and manage risks of an investment project at oil and gas enterprises
project and economic	PC-2.7. Able to carry out the examination of procurement activities for corporate needs of an oil and gas enterprise
	Type of tasks of professional activity: <i>Organizational and managerial</i>
organizational and managerial	PC-3.3. Able to carry out strategic management of the planning processes of operating resources and production facilities at the oil and gas enterprise
organizational and managerial	PC-3.4. Able to give economic validation of regulations of extraction of oil, gas and gas condensate
organizational and managerial	PC-3.5. Can organize work of the staff of the departments at the enterprise on refinery processing of oil and gas

A set of competencies established in the Master's degree program provides the graduate with the ability to carry out the professional activity not less than in one field of professional activity and sphere of the professional activity established according to the clause 4.9 of SIES of HE PNRPU and solve the professional activity tasks of not less than one type established according to the clause 4.10 of SIES of HE PNRPU. For example, in the field of professional activity 08 Finances and Economy. It is provided by the professional competencies formed on the grounds of professional standards:

for the scientific and research type of professional activity tasks - project of professional standard «Economist» (PC-1.1, PC-2.2);

for the project and economic type of professional activity tasks

- professional standard 08.036 «Investment project manager» registration number 1135, approved by the Order of the Ministry of Labour of Russia of 16.04.2018 N 239H (PC-2.3, PC-2.5);

- professional standard 08.024 «Expert in the field of procurement activities», registration number 552, approved by the Order of the Ministry of Labour of Russia of 10.11.2015 № 626H (PC-2.7);

for organizational and managerial type of professional activity tasks

- professional standard 40.033 «Specialist of strategic and tactical planning and organization of production», registration number 166, approved by the Order of the Ministry of Labour of Russia of 08.09.2014 N 609H (PC-3.3);

- professional standard 19.007 «Specialist of extraction of oil, gas and gas condensate», registration number 349, approved by the Order of the Ministry of Labour of Russia of 25.12.2014 N 1124H (PC-3.4);

– professional standard 19.002 «Specialist of refinery processing of oil and gas», registration number № 253, approved by the Order of the Ministry of Labour of Russia of 21.11.2014 N 926H (PC-3.5).

Indicators of competency achievement are presented in *Appendix 1*.

3.2.2 Table of relations between competencies and educational subjects

The division of all declared competencies into the subject parts was made on the basis of the analysis of their content structure and presented with the help of the relational matrix between competencies and educational subjects and internship participating in the development of each competency (see *Appendix 2*).

If there is the connection between the declared competency and educational subject (internship), in the corresponding table cell there is an element (part) of a competency formed within this educational subject (internship). Distribution of educational subjects on competencies under development is based on the results of the compositional analysis of all competencies.

Therefore, argumentation of relations between the declared competencies and educational subjects (internship) allows to evaluate the focus of the major professional academic program, determine the distribution of competencies among educational subjects and types of practical activity, improve the content of the academic program on the grounds of intradisciplinary and interdisciplinary connections.

3.2.3 Stages of the competency based graduate model development

Competency development is a process and the level of its maturity is characteristics that changes in time. Mastering of aspects (components) of a separate competency is gradual.

Stages of each of the declared competencies development are given in *Appendix 3*. It must be noted that the components of the competency (knowledge and skills) can be formed at lectures and practical studies during learning of different educational subjects, but the components (having skills or practical experience) are acquired at the stage of MSc Dissertation or during different kinds of internship.

4. Conditions of MPAP implementation

Conditions of the Master degree program implementation on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» at PNRPU meet the requirements established by SIES of HE PNRPU on this training program. The requirements for the implementation conditions include: system-wide requirements; requirements for the material and technical equipment as well as educational and methodological support; requirements for the personnel conditions of the program implementation; requirements for the financial conditions of the program implementation; requirements for the applied methods for quality evaluation of learning activity and students' preparation on the program.

4.1 System-wide requirements for MPAP implementation

State Federal-Funded Educational Institution of Higher Professional Training «PNRPU» for implementation of the Master degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» on Block 1 «Educational subject (modules)» and Block 3 «State Final Certification» according to the education plan, has necessary material and technical support of academic activity (premises and equipment) that belongs to it on the basis of the right of ownership or the other legal basis.

Students of the Master degree program are provided with the individual unlimited access to the electronic information educational environment of the University during the whole period of study.

The electronic information educational environment of the University provides the access to education plans, work programs of educational subjects (modules), internships, electronic educational editions and electronic learning resources specified in work programs of educational subjects (modules), internships; formation of the student's electronic portfolio, including keeping of their works and marks for these works.

The annual average number of publications of academic employees of the company per 100 of academic employees (in modified to integral values of pay rates) is not less than 2 in journals indexable in databases Web of Science or Scopus, or not less than 20 in journals indexable in Russian Science Citation Index.

4.2 Requirements for the material technical equipment and educational methodological support of MPAP

The material and technical equipment of the Master degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» includes the characteristics of conditions for learning process implementation, including availability and infrastructure of rooms for academic studies provided by the program, rooms for students' individual work, availability of the set of licensed and free software, library collection (in case of use of print media in the educational process), access (remote access) to modern professional databases and inquiry and communications systems.

Appendix 4 contains information about the material and technical support of the major professional academic program of higher education – the Master degree program.

4.3 Requirements to staff conditions of MPAP implementation

MPAP implementation is provided by the key and academic employees of PNRPU as well as people engaged in the program implementation under the other conditions.

Qualifications of teaching employees must correspond to the qualification profile established in the Unified skills guide for positions of managers, specialists and non-manual workers, section «Qualification profile for positions of managers and specialists of higher professional and supplementary vocational education», approved by the order of the Ministry of Health Care and Social Development of the Russian Federation of January 11, 2011 № 1Н (registered by the Ministry of Justice of the Russian Federation on March 23, 2011, № 20237) and professional standards (if any).

The proportion of regular academic employees (in modified to integral values of pay rates) must be not less than 60 per cent in the total number of academic employees of PNRPU.

The proportion of academic employees of the University participating in the program implementation and people engaged by the University in the program implementation under the other conditions (in modified to integral values of pay rates), having a degree and carrying out scientific, teaching and guiding and (or) practical work corresponding to the profile of the taught subject (module) in the total number of academic employees implementing the Master's degree program is not less than 70 per cent.

The proportion of academic employees of the University participating in the program implementation and people engaged by the University in the program implementation under the other conditions (in modified to integral values of pay rates), with a degree (including the degree conferred abroad and recognized in the Russian Federation) and (or) academic status (including the academic status gained abroad and recognized in the Russian Federation) in the total number of academic employees implementing the Master's degree program is not less than 80 per cent.

The proportion of the University employees participating in the program implementation and people engaged by the University in the program implementation under the other conditions (in modified to integral values of pay rates), from among managers and company employees, the performance of which is connected with the trend/profile/specialization of the Master's degree program under implementation (having work experience in this professional field of not less than 3 years) in the total number of employees implementing the Master's degree program, is not less than 10 per cent.

General management of scientific content of the Master's degree program is carried out by a regular academic employee of PNRPU with a degree of Candidate of Sciences or Doctor of Science who implements independent scientific and research projects /participates in carrying out such projects on the field of education 38.04.01 «Economics», has annual publications on the results of the specified scientific and research activity in the leading domestic and (or) foreign peer-reviewed scientific journals and editions and also conducts the annual evaluation of results of the specified scientific and research activity at the national and international conferences.

Information about the human resourcing of the major professional academic program of higher education – the Master's degree program is presented in *Appendix 5*.

4.5 Requirements for financial conditions of MPAP implementation

Financial support of the Master's degree program implementation on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» is conducted in the amount not less than standard base costs for providing state services on implementation of academic programs of higher education and adjustment factors to standard base costs determined by the Ministry of Education and Science of the Russian Federation.

4.6 Requirements for the applied methods for quality evaluation of learning activity and students' preparation on MPAP

Quality of academic activity and preparation of students on the Master's degree program on the field of education 38.04.01 «Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» is determined within the system of internal assessment, as well as the system of external assessment, in which the University participates on a voluntary basis.

In order to improve the Master's degree program during regular internal assessment of the academic activity quality and preparation of students on the Master's degree program the University engages employers and (or) their association, other legal and (or) physical persons, including teaching employees of the University .

The Master's degree program on the field of education 38.04.01«Economics» of the orientation (profile) «Oil and Gas Enterprise Management and Economics» has received positive evaluation.

The internal system of quality control of academic activity and preparation of students on MPAP at the University is determined by the set of internal processes within SMK PNRPU and described in the Quality manual of State Federal-Funded Educational Institution of Higher Professional Training «PNRPU».

Within the internal system of quality control of academic activity in SMK PNRPU they developed the process interaction pattern, determined the responsibility centres for implementation of key processes, developed documented procedures, the suggested list of key figures (indicators) for internal quality assessment. Within the internal system of academic activity quality assessment according to the Master degree program students are provided with the opportunity of assessment of conditions, content, organization and quality of educational process in general and independent subjects (modules) and internship.

The external assessment of academic activity quality according to the Master degree program within the state accreditation procedure is carried out in order to confirm correspondence of academic activity on the Master degree program to the requirements of SIES HE PNRPU.

The external assessment of academic activity quality and preparation of students on the Master degree program can be carried out within the professional and social accreditation conducted by the employers, their unions as well as authorized organizations including foreign organizations or authorized national professional and social organizations involved in international structures in order to recognize quality and level of preparation of graduates, meeting the requirements of professional standards (if any), requirements of labour market to specialists of the corresponding profile.

Indicators of Competence Achievement

1. Indicators of General Competence Achievement

Name of category (group) of general competences	Code and name of the general competence of an academic program graduate	Code and name of the indicator of general competence achievement
Operational and critical thinking	GC-1. Able to carry out the critical analysis of problem situations on the basis of system approach and develop the performance strategy	<p>AI-1_{GC-1}. Knows methods of solution of problem situations in scientific-technical and production professional practice</p> <p>AI-2_{GC-1}. Can obtain new knowledge on the basis of system approach; carry out the critical analysis of data on complicated scientific problems referring to the professional field; search for the solutions on the basis of scientific methodology.</p> <p>AI-3_{GC-1}. Has skills of forecasting activity that allows to build the strategy of research and practical solutions, skills of heuristic analysis of promising scientific and technical directions; skills of strategic planning in different fields of professional activity.</p>
Development and implementation of projects	GC-2. Able to manage the project at all stages of its life cycle	<p>AI-1_{GC-2}. Knows methods of presentation and description of results of project activity; methods, criteria and items of evaluation of results of project execution; principles, methods and requirements applied to project work.</p> <p>AI-2_{GC-2}. Can prove practical and theoretical significance of obtained results; check and analyze project documentation; forecast the development of processes in the project professional field; advance innovation ideas and unconventional approaches to their implementation for the purpose of project implementation; calculate qualitative and quantitative results, terms of project work execution.</p> <p>AI-3_{GC-2}. Has skills of project management in the field appropriate to professional activity including skills of task distribution and motivation of others to achieving goals; management skills of development of project technical specifications, management of implementation of specialized project work; management of the process of discussion and modification of the project; skills of development of the program of project implementation in the professional field; skills of organization of the professional discussion of the project, participation in maintenance of project documentation; skills of development of the schedule of project implementation; determination of requirements to the results of project implementation, participation in scientific and panel discussions.</p>
Teamwork and leadership	GC-3. Able to organize and manage teamwork developing the team strategy for the end of purpose	<p>AI-1_{GC-3}. Knows problems of the efficient team selection; main conditions of efficient teamwork; grounds of strategic human resources management, laws and regulations concerning organization and performing professional activity; models of organizational behavior, factors of formation of organizational relations; strategies and principles of teamwork, principal features of organizational climate and interaction of people in the organization, methods of scientific research in the field of management; verification methods of research results; methods of interpretation and presentation of research results.</p> <p>AI-2_{GC-3}. Can determine the style of management and efficiency of team management; develop team strategy; possess the technology of implementation of the main management functions, analyze and interpret the results of scientific research in the field of human resources management; apply principles and methods of teamwork organization; select methods and techniques of the research of professional practical tasks.</p> <p>AI-3_{GC-3}. Has skills of organization and team cooperation</p>

		management in the process of achievement of set goals; team building for executing practical tasks; participation in teamwork strategy development; writing business letters to organize and accompany teamwork; teamwork, development of the program of empiric research of professional practical tasks.
Communication	GC-4. Able to apply modern communication technologies including those in foreign language(s) for academic and professional exchange	AI-1_{GC-4}. Knows kinds and means of modern communication technologies; rules and opportunities of application of communication technologies under the conditions of academic and professional cooperation in Russian and foreign languages. AI-2_{GC-4}. Can apply communication technologies for search, exchanging information and establishment of professional contacts; present the results of scientific and professional activity in Russian and foreign languages; participate in academic and professional discussions; analyze, create, edit and translate scientific and occupational texts. AI-3_{GC-4}. Has skills of academic and professional cooperation; scientific and professional terminology; skills of work with storage and retrieval systems.
Intercultural exchange	GC-5. Able to analyze and take into account the variety of cultures in the process of intercultural exchange	AI-1_{GC-5}. Knows psychological foundation of social interaction aimed at solution of professional problems; main principles of business contact establishment; methods of preparation for negotiations, national, ethnocultural and confessional peculiarities and local traditions of population; key concepts of people's cooperation in the company, dyadic interaction peculiarities, technologies of leadership and teambuilding. AI-2_{GC-5}. Can properly and lucidly represent professional information in the process of intercultural exchange; observe ethical norms and human rights; analyze peculiarities of social interaction taking into account national, ethnocultural and confessional peculiarities. AI-3_{GC-5}. Has skills of organization of efficient interaction within the professional environment taking into account national, ethnocultural and confessional peculiarities; skills of dealing with communication, educational, ethnic, confessional and other obstacles in the process of intercultural exchange; detecting of variety of cultures in the process of intercultural exchange.
Self-organization and self-development (including health preservation)	GC-6. Able to set and realize priorities of their own activity and means of its perfection on the grounds of self-assessment	AI-1_{GC-6}. Knows peculiarities of making and realization of organizational, including managerial decisions; theoretic and methodological grounds of self-development, self-realisation, use of creative potential of personal activity; major scientific schools of psychology and management; activity approach to the research of personal development; technology and methodology of self-assessment; theoretic grounds of acmeology, levels of psychic phenomena analysis. AI-2_{GC-6}. Can set priorities of professional activity and means of its perfection on the grounds of self-assessment; develop, control, assess and research professional activity components; plan independent activity in solution of professional tasks. AI-3_{GC-6}. Has skills of identifying the efficient direction of actions in the field of professional activity; making decisions at the level of their own professional activity; skills of planning their own professional activity.

2. Indicators of General Professional Competency Achievement

Name of category (group)	Code and name of the	Code and name of the indicator of general professional
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of general professional competences	general professional competence of an academic program graduate	competence achievement
Theoretical academic training	GPC-1. Able to apply knowledge (at the advanced level) of academic economic science for solution of practical and/or research tasks	<p>AI-1_{GPC -1} Knows microeconomics: consumer behavior (consumer choice); producer behavior (producer choice); company behavior under the conditions of perfect and imperfect competition (monopoly, monopolistic competition and oligopoly) at product markets and resource markets (production factors); strategic behavior of companies under the conditions of oligopoly; conception of economic balance and economic efficiency; reasons for market failure (monopoly power, neighborhood effects, public goods, information asymmetry); theoretical aspects of taxation; macroeconomics: economic growth; short-term economic fluctuations (period); principles of operating of monetary and budget (fiscal) policy; reasons for unemployment; behavior of monetary and financial markets; global trade and international flows of capital; exchange rate formation mechanism at the foreign currency market.</p> <p>AI-2_{GPC -1} Can apply a mathematical tool using the algebraic method of local extremum determination for solution of typical tasks of constrained optimization within the theory of consumer or producer choice; make the plan and conduct theoretical research of the real economic situation with the help of studied methods.</p> <p>AI-3_{GPC -1} Has skills of selection of the most appropriate theoretical model for solution of the practical or research task and selection justification.</p>
Analysis	GPC-2. Able to apply advanced instrumental methods of economic analysis in applied and/or fundamental research	<p>AI-1_{GPC -2} Knows the probability theory, mathematical statistics and econometrics: types of economic data; least squares method (LSM) and method of maximum likelihood, generalized method of moments, instrumental variables method; method of inspection of statistical hypotheses about parameters of developed models; basic diagnostic techniques (quality check) of econometric models; principles of development and analysis of econometric equation systems; simulation approach and method of historical series analysis; methods of modeling and panel data analysis.</p> <p>AI-2_{GPC -2} Can work with national and international data bases with the purpose of search for necessary information about economic phenomena and processes; analyse statistical information and obtain statistically valid conclusions; carry out graphic data visualization; make plan and carry out statistical research of real economic situation with the help of studied methods; on the ground of obtained results make valid conclusions about possible cause and effect relationship, assess efficacy of alternative hypotheses.</p> <p>AI-3_{GPC -2} Has skills of selection and application of appropriate methods of econometric analysis of economic data.</p>
Research	GPC -3. Able to summarize and critically evaluate scientific research in economics.	<p>AI-1_{GPC -3} Knows achievements of global economic science for the last decades in the selected field of scientific interests; main current disputes in economic science.</p> <p>AI-2_{GPC -3} Can determine weak and strong sides of various scientific research in economics.</p> <p>AI-3_{GPC -3} Has skills of conducting comparative analysis of scientific research in economics.</p>
Organization and management	GPC -4. Able to make economically and financially justified organizational and management decisions in professional activity and bear the responsibility for them.	<p>AI-1_{GPC -4} Knows goals and tasks of financial and economic activities of organization (enterprise), behavior of strategic interaction participants (competitors, partners, subordinates, etc.).</p> <p>AI-2_{GPC -4} Can estimate consequences of alternative variants for solution of set professional tasks; determine financial and</p>

		<p>economic goals of organization (enterprise) activity and form the lists of tasks on their grounds that can be solved with the instruments of economic analysis; predict the responsive behavior of other participants of strategic interaction (competitors, partners, subordinates, etc.).</p> <p>AI-3_{GPC-4} Has skills of development and validation of alternatives for solution of professional problems taking into consideration economic effectiveness criteria, assessment of risks and possible social and economic consequences.</p>
Information culture	GPC -5. Able to apply modern information technologies and software for solution of professional tasks.	<p>AI-1_{GPC-5} Knows software aimed at carrying out statistical procedures, electronic library systems for search of necessary scientific literature and social and economic statistics.</p> <p>AI-2_{GPC-5} Can apply at least one of general or specific suite of application programs (such as MS Excel, Eviews, Stata, SPSS, R и др.) aimed at carrying out statistical procedures (statistical information processing, development and diagnostics of econometric models).</p> <p>AI-3_{GPC-5} Has skills of using electronic library systems for searching for necessary scientific literature and socio-economic statistics.</p>

3. Achievement indicators of obligatory professional competencies of graduates from the training program 38.04.01 «Economics» of PNRPU

Category of professional competencies	Code and name of the competence	Code and name of the competence achievement indicator	Grounds (PS, analysis of experience)
Development and implementation of projects	PC-1. Able to carry out an independent applied or fundamental scientific research project in the field of economics	<p>AI-1_{PC-1} Knows purposes, objectives, methods and stages of scientific research.</p> <p>AI-2_{PC-1} Can formulate a research question (purpose and objectives of research); position his/her own research in the appropriate scientific literature; using the modern theoretical and econometric instruments, select and prove a valid research method.</p> <p>AI-3_{PC-1} Has skills of carrying out the research and presentation of its results in the form of the whole scientific text and the article.</p>	Analysis of experience; project POOP, developed by FUMO in the system of higher education on UGSN «Economics and Management»

4. Achievement indicators of professional competencies of graduates from the master degree program «Oil and Gas Enterprise Management and Economics » of PNRPU

PA objective/ aggregate labour function	Category of professional competencies	Code and name of the competence	Code and name of the competence achievement indicator	Grounds
Type of tasks of professional activity: <i>1. Scientific and research</i>				
Creation of economically justified systems of company activity	Research	PC-1.1 Capable of economic goal setting of strategic management.	<p>AI-1_{PC-1.1} Knows techniques of collection, processing, analysis and systematization of data, methods of economic analysis of company business operations, measures of providing the economy regime, improving the profitability of production, competitiveness of output product, labour efficiency, reduction of cost for manufacturing and realization of products, elimination of losses and waste.</p> <p>AI-2_{PC-1.1} Can keep account of economic indicators of results of production activity of the company and its departments, carry out the collection, processing, analysis and systematization of data, including the data of statistical surveys, conduct economic analysis of company business operations, develop theoretical and econometric models of processes, phenomena and objects under research that belong to the field of professional activity, assess and interpret the obtained results, develop measures of providing the economy regime, improving the profitability of production, competitiveness of output product, labour efficiency, reduction of cost for manufacturing and realization of products, elimination of losses and waste, carry out the preparation of tasks and development of systems of socio-economic indicators of the company.</p> <p>AI-3_{PC-1.1} Has skills of making of economic sections of company plans taking into account strategic management, skills of monitoring the process of performance of the planned tasks within the company and its departments, use of internal resources.</p>	Experience analysis; draft of occupational standards «Economist»
Creation of economically justified systems of company activity	Research	PC-1.2 Capable of development of economic models of company activity.	<p>AI-1_{PC-1.2} Knows socio-economic indicators, which characterize the operational activity of economic agents, and their calculation methods, methods of forecasting of dynamics of the major socio-economic indicators of activity of the company, field, region and economy in general, strategy of development and performance of the company and its departments.</p> <p>AI-2_{PC-1.2} Can develop and prove socio-economic indicators, which characterize the operational activity of economic agents, and their calculation methods, carry out the search, analysis and assessment of information sources for carrying out of business calculations, make an assessment of project performance taking into account the uncertainty factor and analyze the proposals of their improvement, apply mechanisms of rendering the financial services in electronic form and</p>	Experience analysis; draft of occupational standards «Economist»

			<p>provide their information security, create the systems of company management and monitoring with the use of information and communication technologies, organize the teamwork of the staff for solution of business problems, manage the economic services and departments of companies.</p> <p>AI-3_{PC-1.2} Has skills of economic goal setting or their separate stages, skills of forecasting of dynamics of the major socio-economic indicators of activity of the company, field, region and economy in general, skills of generation of strategies of development and performance of the company and its departments.</p>	
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Type of tasks of professional activity: 2. Project and economic				
Implementation of investment project	Project and economic	PC-2.3. Able to manage the efficiency of an investment project at oil and gas enterprises	AI-1_{PC-2.3} Knows resources, stages of implementation and methods of quality control of an investment project at oil and gas enterprises AI-2_{PC-2.3} Can assess necessary resources, determine the sequence and duration of operations and plan the stages of implementation of an investment project at oil and gas enterprises as well as manage its quality and the team of an investment project. AI-3_{PC-2.3} Has skills of definition of operations, team members and quality control of an investment project at oil and gas enterprises, as well as skills of management of the investment project team.	Professional standard 08.036 «Investment project manager» registration number 1135, approved by the Order of the Ministry of Labour of Russia of 16.04.2018 N 239H (so far as labour functions B/01.7 and B/03.7)
Risk management of investment project	Project and economic	PC-2.5 Able to assess and manage risks of an investment project at oil and gas enterprises	AI-1_{PC-2.5} Knows methods of rating, documenting and risk assessment of investment projects at oil and gas enterprises, and well as instruments of risk management. AI-2_{PC-2.5} Can assess risks of investment projects at oil and gas enterprises and manage them AI-3_{PC-2.5} Has skills of development of risk management measures within the implementation of an investment project at oil and gas enterprises	
Examination of procurement activities	Project and economic	PC-2.7 Able to carry out the examination of procurement activities for corporate needs of an oil and gas enterprise	AI-1_{PC-2.7} Knows methods of expert estimation of applications in the procedure of procurements and procurement activities for oil and gas enterprises AI-2_{PC-2.7} Can carry out the expert estimation of procurement procedure summarizing at oil and gas enterprises as well as develop methodological procedures within the procurement activities at oil and gas enterprises. AI-3_{PC-2.7} Has skills of execution of documents on the results of documentation expertise in the form of decision at the oil and gas enterprise	Professional standard 08.024 «Expert in the field of procurement activities», registration number 552, approved by the Order of the Ministry of Labour of Russia of 10.11.2015 г. № 626H (so far as labour functions B/01.7)

Type of tasks of professional activity: 3. Organizational and managerial				
Strategic management of the planning processes of operating resources and production facilities	Organizational and managerial	PC-3.3 Able to carry out strategic management of the planning processes of operating resources and production facilities at the oil and gas enterprise	AI-1_{PC-3.3} Knows production processes, methods of their organization and workplaces, production, organizational and managerial structure, methods of strategic and tactical planning at oil and gas enterprises AI-2_{PC-3.3} Can organize work of formation of the hierarchy of production process forecast at the strategical and tactical horizons of making managerial decisions in order to define market needs for the products of oil and gas industry, enterprise needs for production resources and facilities; provide smooth work of the enterprise and smooth product release according to the production programmes, contractual obligations, graphical schedules; organize the efficient load of oil and gas equipment. AI-3_{PC-3.3} Has skills of the correct combination of economic and administrative	Professional standard 40.033 «Specialist of strategic and tactical planning and organization of production», registration number 166, approved by the Order of the Ministry of Labour of Russia of 08.09.2014 N 609H (so far as labour functions

			methods of management, material and moral stimulations of productivity enhancement as well as client-centered strategic and tactical management of configurations of oil and gas industry products on the grounds of long-term and medium-term forecasts of market development	B/01.7)
Control of carrying-out of requirements and regulations for providing the extraction of oil, gas and gas condensate	Organizational and managerial	PC-3.4 Able to give economic validation of regulations of extraction of oil, gas and gas condensate	AI-1_{PC-3.4} Knows economics and organization of oil and gas production AI-2_{PC-3.4} Can organize oil and gas production and assess its economic efficiency AI-3_{PC-3.4} Has skills of preparation of business proposals on technological process and activities of extraction of oil, gas and gas condensate	Professional standard 19.007 «Specialist of extraction of oil, gas and gas condensate», registration number 349, approved by the Order of the Ministry of Labour of Russia of 25.12.2014 N 1124H (so far as labour functions C/01.7)
Operating control of production and commercial activities	Organizational and managerial	PC-3.5 Can organize work of the staff of the departments at the enterprise on refinery processing of oil and gas	AI-1_{PC-3.5} Knows the grounds of general management of production and commercial activities of shopfloors, technological objects and the subordinate staff at the enterprise of refinery processing of oil and gas AI-2_{PC-3.5} Can organize the execution of production tasks on classification and according to standard process documentation of the enterprise of refinery processing of oil and gas and its production, as well as organize smooth release of high quality products AI-3_{PC-3.5} Has skills of organization of labour and production at the enterprise of refinery processing of oil and gas	Professional standard 19.002 Specialist of refinery processing of oil and gas, registration number.№ 253, approved by the Order of the Ministry of Labour of Russia of 21.11.2014 N 926H (so far as labour functions C/03.7)

Stages of competency development

Competencies under development	Subjects or practices – credit points (terms – type of summative assessment)								Number of subject parts	
	Full-time				Part-time				Full-time	distance
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 1	Stage 2	Stage 3	Stage 4		
GC-1	B1.B.01 - 2 c.p., (2-credit)				B1.B.01 - 2 c.p., (1- credit)				1	1
GC -2	B1.B.04 - 4 c.p., (1- examination)				B1.B.04 - 4 c.p., (1- examination)				1	1
GC -3	B1.B.03 - 2 c.p., (2-credit)				B1.B.03 - 2 c.p., (1- credit)				1	1
GC -4	B1.B.02 - 2 c.p., (2- credit)	B1.DB.01.2 – 4 c.p. (3 – graded test)			B1.B.02 - 2 c.p., (1- credit)	B1.DB.01.2 – 4 c.p. (3 – graded test)			2	2
GC -5	B1.B.02 - 2 c.p., (2- credit)	B1.B.03 - 2 c.p., (2- credit)			B1.B.02 - 2 c.p., (1- credit)	B1.B.03 - 2 c.p., (1- credit)			2	2
GC -6	B1.B.01 - 2 c.p., (2- credit)				B1.B.01 - 2 c.p., (1- credit)				1	1
GPC-1	B1.B.06 - 4 c.p., (1- graded test)	B1.B.07 - 4 c.p., (2- examination)			B1.B.06 - 4 c.p., (1- graded test)	B1.B.07 - 4 c.p., (2- examination)			2	2
GPC -2	B1.B.05 - 4 c.p., (2- examination)				B1.B.05 - 4 c.p., (2- examination)				1	1
GPC -3	B1.B.04 - 4 c.p., (1- examination)				B1.B.04 - 4 c.p., (1- examination)				1	1
GPC -4	B1.B.06 - 4 c.p., (1- graded test)				B1.B.06 - 4 c.p., (1- graded test)				1	1
GPC -5	B1.B.05 - 4 c.p., (2- examination)				B1.B.05 - 4 c.p., (2- examination)				1	1
PGC -1	B1.B.05 - 4 c.p., (2- examination)	B2.B.01 - 28 c.p., (4- graded test)			B1.B.05 - 4 c.p., (2- examination)	B2.B.01 - 28 c.p., (5- graded test)			2	2
PC-1.1	B1.B.04-4 c.p. (1- examination)	B2.B.01-9 c.p., (3 - graded test)	B1.DB.03.2 – 5 c.p., (4 – graded test)		B1.B.04-4 c.p. (2- examination)	B1.DB.03.2 – 5 c.p., (4 – graded test)	B2.B.01-9 c.p., (5 - graded test)		3	3
PC-1.2	B1.B.04-4 c.p. (1- examination)	B1.B.06-4 c.p. (3- examination)	B1.DB.04.1 – 4 c.p., (3 - examination)	B2.B.01-9 c.p., (3 - graded test)	B1.B.04-4 c.p. (2- examination)	B1.DB.04.1 – 4 c.p., (3 - examination)	B1.B.06-4 c.p. (4- examination)	B2.B.01-9 c.p., (5 - graded test)	4	4
PC-2.3	B2.B.02- 6 c.p. (2- graded test)	B1.B.05-4 c.p. (3- examination)	B1.DB.02.1-5 c.p., (3 - examination)	B1.DB.04.2 – 4 c.p., (3 - examination)	B1.DB.02.1-5 c.p., (3 - examination)	B1.DB.04.2 – 4 c.p., (3 - examination)	B1.B.05-4 c.p. (4- graded test)	B2.B.02- 6 c.p. (5- graded test)	4	4
PC-2.5	B1.B.03-4 c.p. (1- graded test)	B2.B.02- 6 c.p. (2- graded test)	B1.DB.01.1 – 4 c.p. (3 – graded test)		B1.B.03-4 c.p. (1- graded test)	B1.DB.01.1 – 4 c.p. (4 – graded test)	B2.B.02- 6 c.p. (5- graded test)		3	3
PC-2.7	B2.B.02- 6 c.p. (2- graded test)	B1.B.05-4 c.p., (3- graded test)	B1.DB.02.1-5 c.p., (3 - examination)		B1.DB.02.1-5 c.p., (3 - examination)	B1.B.05-4 c.p. (4- graded test)	B2.B.02- 6 c.p. (5- graded test)		3	3
PC-3.3	B1.B.02-3 c.p., (1 - examination)	B1.B.01 - 3 c.p., (2- credit)	B1.DB.03.1 – 5 c.p., (4 – graded test)	B2.B.03- 6 c.p. (4- graded test)	B1.B.02-3 c.p., (2 - examination)	B1.B.01 - 3 c.p., (2- credit)	B1.DB.03.1 – 5 c.p., (4 – graded test)	B2.B.03- 6 c.p. (5- graded test)	4	4
PC-3.4	B1.B.02-3 c.p., (1 - examination)	B1.DB.02.2 -5 c.p., (3 - examination)	B2.B.03- 6 c.p. (4- graded test)		B1.B.02-3 c.p., (2 - examination)	B1.DB.02.2 -5 c.p., (3 - examination)	B2.B.03- 6 c.p. (5- graded test)		3	3

PC-3.5	B1.B.02-3 c.p., (1 - examination)	B1.DB.02.2 -5 c.p., (3 - examination)	B2.B.03- 6 c.p. (4- graded test)		B1.B.02-3 c.p., (2 - examination)	B1.DB.02.2 -5 c.p., (3 - examination)	B2.B.03- 6 c.p. (5- graded test)		3	3
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Information about staff assistance of the major professional academic program

	Name of the indicator	Unit of measure / value	Data value
1	2	3	4
1.	Proportion of academic employees (in modified to integral values of pay rates) with education corresponding to the profile of the taught subject (module) in the total number of academic employees implementing the principal educational program/proportion of teaching employees of the Organization and people engaged under the other conditions carrying out scientific, educational and methodological and (or) practical work that corresponds to the appropriate profile of the taught subject (in modified to integral values of pay rates) in the total number of employees implementing the program.	%	92
2.	Proportion of academic employees (in modified to integral values of pay rates) with a degree (including the degree conferred abroad and recognized in the Russian Federation) and (or) academic status (including the academic status gained abroad and recognized in the Russian Federation) in the total number of academic employees implementing the principal educational program	%	97
3.	Proportion of employees (in modified to integral values of pay rates) from among managers and company employees, the performance of which is connected with the trend (profile) of the program under implementation (having work experience in this professional field of not less than 3 years) in the total number of employees implementing the principal educational program	%	14
4.	Information about the regular academic employee with a degree (including the degree conferred abroad and recognized in the Russian Federation) who performs general management of the scientific content of the principal educational program (for Master's degree programs)	Assistant professor of EIPM department Gureeva E.G.	
5.	The degree (including the degree conferred abroad and recognized in the Russian Federation)	degree	Ph.D. in Economics

