

FEDERAL AGENCY OF RAILWAY TRANSPORT  
Federal State-Financed Organization of Higher Education

«Irkutsk State Transport University»

Accepted  
Academic Council ISTU  
Protocol №

from «31» 05 2019



APPROVE  
Rector

S.K. Kargapoltsev

2019

**MAJOR PROFESSIONAL PROGRAM OF HIGHER  
EDUCATION**

**Major**  
38.04.02 Management

**Master Degree Program**  
«Logistics and Commerce»

Graduate Qualification – Master Degree  
Master Degree Program - Applied Program  
Professional Standard - 40.049 «Transport Logistics Specialist»  
Education Form - full-time  
Training Start - 2019  
Study Duration - 2 years  
Total Labor Intensity -120 credits  
Graduated Department – «Management»

Irkutsk 2019

MPHEP approved at a meeting of the department «Management»  
Protocol number 40 from «02» 04 2019 year  
Chairman of the Council



Yu.N. Malanina

MPHEP approved at a meeting of the Council of the educational program «Management» and  
«Human Resource Management»  
Protocol number 4 from «06» 05 2019 year  
Chairman of the Council



Yu.N. Malanina

MPHEP is coordinated with major employers:

Russian Railways,  
East Siberian Territorial Center  
branded transport service  
Deputy Head of East Siberian  
territorial center of the company  
transport services for marketing and planning

«31» 05 2019 year



V. N Shmagarev

MPHEP is coordinated with the Primary Professional Union Organization of (PPUO) IrSTU  
students

Protocol number 50/12 dated «24» 05 2019  
Chairman PPUO



N.M. Protasov

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## **1. General Provisions**

The main professional educational program (MPEP) of higher education is the main professional educational program of the magistracy, implemented by the Federal State Budgetary Institution of Higher Education «Irkutsk State University of Communications» in the direction of training 38.04.02 Management, training profile «Logistics and commercial activities» - it is a complex of the main characteristics of education (volume, content, planned results), organizational pedagogical conditions and forms of certification, which are presented in the form of the general characteristics of the graduate program, curriculum, calendar study schedule, work programs of disciplines (modules), practice programs, assessment tools, teaching materials, other components included in the composition of the magistracy program by decision of the Academic Council of IrSTU.

The order of renewal of the main professional educational program of the magistracy is defined in the provision «Basic professional educational program of higher education (bachelor's degree, specialty, magistracy)» No. P.250200.06.7.169-2016.

## **2 Regulatory and legal documents on development**

### **The main professional educational program of the magistracy**

The main professional educational program of the magistracy

The legal framework for the development of Master's OPS are:

- Federal Law of the Russian Federation of December 29, 2012 No. 273-FL «On Education in the Russian Federation» in the latest edition;
- Order of the Ministry of Education and Science of the Russian Federation of 05.04.2017, No. 301 «On approval of the procedure for organizing and carrying out educational activities on educational programs of higher education - undergraduate programs, specialty programs, graduate programs»;
- Methodical recommendations on the organization of the educational process for the education of persons with disabilities and persons with disabilities in educational institutions of higher education, including the equipment of the educational process, approved by order of the Ministry of Education and Science of the Russian Federation of April 8, 2014 No. AK-44 / 05vn;
- Methodical recommendations for the development of basic professional educational programs and additional professional programs taking into account the relevant professional standards, approved by order of the Ministry of Education and Science of the Russian Federation dated January 22, 2015 No. DL-1 / 05vn;
- The procedure for conducting state final certification for educational programs of higher education - undergraduate programs, specialty programs, graduate programs, approved by order of the Ministry of Education and Science of the Russian Federation of June 29, 2015, No. 636 in the latest edition;
- Regulations on the practice of students mastering the main professional educational programs of higher education, approved by order of the Ministry of Education and Science of the Russian Federation of 27.11.2015, No. 1383;
- Federal State Educational Standard of Higher Education in the direction of training 38.04.02 Management (Master's level), approved by order of the Ministry of Education and Science of the Russian Federation dated March 30, 2015 No. 322;
- Professional Standard 40.049 «Transport Logistics Specialist», approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated September 8, 2014 No. 616n;

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<sup>1</sup>The main vocational education program (VET), the educational program (EP) are used as interchangeable terms.

- regulatory and methodological documents of the Ministry of Education and Science of the Russian Federation;
- Charter of the Federal State Budgetary Educational Institution of Higher Education "Irkutsk State University of Communications";
- Position "The main professional educational program of higher education (bachelor's degree, specialty, magistracy)" No. P.250200.06.7.169-2016.

### **3 General characteristics of the educational program of the magistracy**

#### **3.1 Purpose and objectives of the educational program**

The purpose of the main educational program of the magistracy in the direction of training 38.04.02 Management, profile "Logistics and commercial activities":

- documentary and methodological support for the implementation of the GEF and, on this basis, the development of students' personal qualities, as well as the formation of general cultural and professional competencies that contribute to the success of the training profile.

The objectives of the educational program of the magistracy:

- in the field of education - to help the graduate to form socially responsible behavior in society, understanding graduates of professional ethical norms and following these norms in communicating with colleagues, managers, subordinates, clients, business partners, maintaining a graduate (including personal example) in their colleagues and subordinates striving for a healthy lifestyle;
- in the field of training - the training of highly qualified specialists for private sector and public authorities and management with theoretical knowledge and professional competence in the field of logistics and commercial activities.

#### **3.2 The form of training and the term of development of the educational program, alumni qualifications**

Full-time form of education. The term of mastering an educational program of a magistracy with full-time education, including vacations provided after passing the state final attestation, is 2 years, which corresponds to the Federal State Educational Standard of Higher Education in this area of training.

Persons who have completed training in an educational program and successfully passed the state final certification, on the basis of a decision of the state examination commission, receive the qualification "master" in the direction of training 38.04.02 Management.

#### **3.3 the complexity of the educational program**

The complexity of the educational program of the magistracy is defined as the complexity of the training load of the student during the development of the program and includes all types of educational activities provided by the curriculum. The complexity of the program, implemented for the entire period of study is 120 credits. The volume of the master's program in full-time education, implemented in one academic year, is 60 credits.

#### **3.4 Requirements for the level of training of applicants required for mastering the educational program of magistracy**

Persons with higher education of any level, confirmed by a document on higher education and on qualifications, are allowed to master the master's program.

#### **3.5 Characteristics of the professional activities of graduates, mastered the educational program of magistracy**

##### **3.5.1 The field of professional activity of graduates**

The field of professional activity of graduates who have mastered the Master-tours program includes:

- management activities in organizations of any legal form, in which graduates work as performers or managers in various services of the management apparatus;
- management activities in the bodies of state and municipal government;
- entrepreneurial and organizational activities in the structures in which graduates are entrepreneurs who create and develop their own business.

### 3.5.2 The objects of professional activity of graduates

The objects of professional activity of graduates who have mastered the program of magi-strati are:

- management processes of organizations of various organizational and legal forms;
- processes of state and municipal government.

### 3.5.3 Types of professional activity of graduates

Types of professional activity for which graduates who have mastered the graduate program are preparing:

- organizational - managerial - the main activity;
- analytical.

### 3.5.4 Professional tasks of graduates

Graduates who have mastered the master's program in accordance with the types of professional activity are ready to solve the following professional tasks:

type of activity - organizational and management activities:

- development of strategies for the development of organizations and their individual units;
- management of departments of enterprises and organizations of various forms of ownership, state and municipal authorities;
- organization of creative teams (teams) to solve organizational and management tasks and their management;

type of activity - analytical activity:

- search, analysis and evaluation of information for the preparation and adoption of management decisions;
- analysis of existing forms of organization and management processes, development and justification of proposals for their improvement;
- assessing the effectiveness of projects, taking into account the uncertainty factor.

Comparison of professional tasks of the Federal State Educational Standards of Higher Education and the labor functions of professional standard 40.049 “Transport Logistics Specialist”, approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated September 08, 2014 No. 616n:

Requirements of FSES HE	Requirements professional standard	Findings
Professional tasks	Generalized labor functions (GLF), labor functions (LF)	
Type of activity - organizational and managerial		
development strategies for the development of organizations and their individual units	Organization of logistics activities for the transportation of goods in the supply chain (B/01.6)	Complies
management of departments of enterprises and organizations of different forms of ownership,		

state and municipal authorities		
organization of creative teams (teams) for solving organizational and managerial tasks and managing them		

### 3.6 Profile of the educational program

Based on the requirements of the labor market, research and material and technical resources of IrSTU, the preparation of masters is carried out on the profile Logistics and commercial activities.

### 3.7 The planned results of mastering the educational program of the magistracy

As a result of mastering the master's program, graduates should be formed general cultural, professional and professional competence.

Code competencies	Content of competence
A graduate who has mastered the master program should have the following general cultural competences (GCC)	
GCC-1	ability to abstract thinking, analysis, synthesis
GCC-2	readiness to act in non-standard situations, to bear social and ethical responsibility for the decisions made
GCC-3	readiness for self-development, self-realization, use of creative potential
A graduate who has mastered the master program should have the following general professional competencies (GPC)	
GPC-1	readiness for communication in oral and written forms in Russian and foreign languages for solving problems of professional activity
GPC -2	willingness to lead a team in their professional activities, tolerantly perceiving social, ethnic, confessional and cultural differences
GPC -3	the ability to conduct independent research, to justify the relevance and practical importance of the chosen topic of scientific research
A graduate who has mastered the master program should have the following professional competencies (PC)	
organizational and management activities	
PC-1	ability to manage organizations, departments, groups (teams) of employees, projects and networks
PC-2	ability to develop corporate strategy, organizational development and change programs and ensure their implementation
PC-3	ability to use modern methods of corporate finance management for solving strategic tasks
analytical activity	
PC-4	the ability to use quantitative and qualitative methods to conduct applied research and business process management, to prepare analytical materials on the results of their use
PC-5	possession of methods of economic and strategic analysis of the behavior of economic agents and markets in a global environment

Comparison of the professional competencies of the Federal State Educational Standards of Higher Education and the labor functions of the professional standard 40.049 “Transport Logistics Specialist”, approved by order of the Ministry of Labor and Social Protection of the Russian Federation dated September 08, 2014 No. 616n:

Requirements of GEF HE	Requirements professional standard	Findings
Professional competence for each type of activity	Labor functions for each generalized labor function and qualification requirements for them, formulated in the professional standard	
Type of activity - organizational and managerial		
ability to manage organizations, departments, groups (teams) of employees, projects and networks (PC-1)	Organization of logistics activities for the transportation of goods in the supply chain (B/01.6)	Complies
ability to develop corporate strategy, organizational development and change programs and ensure their implementation (PC-2)	Organization of logistics activities for the transportation of goods in the supply chain (B/01.6)	Complies
ability to use modern methods of corporate finance management for solving strategic tasks (PC-3)	Organization of the process of improving the quality of logistics services for the transportation of goods in the supply chain (B/03.6)	Complies
Вид деятельности – аналитическая		
the ability to use quantitative and qualitative methods to conduct applied research and business process management, to prepare analytical materials on the results of their use (PC-4)	Organization of work with contractors in the market of transport services (B/02.6)	Complies
possession of methods of economic and strategic analysis of the behavior of economic agents and markets in a global environment (PC-5)	Organization of work with contractors in the market of transport services (B/02.6)	Complies

### 3.8 Details of the faculty required for the implementation of the educational program

In accordance with the requirements of paragraph 7.2 of the GEF HE, the implementation of the magistracy program is provided by the leading and scientific-pedagogical staff of the organization, as well as by persons involved in the implementation of the magistracy program under a civil law contract.

The share of scientific and pedagogical workers (in terms of integer rates) with an education corresponding to the profile of the taught discipline (module), in the total number of scientific and pedagogical workers implementing the master's program, must be at least 70 percent.

The share of scientific and pedagogical workers (in terms of integer-valued rates) with a degree (including a degree awarded abroad and recognized in the Russian Federation) and (or) an academic rank (including an academic title obtained for abroad and recognized in the Russian Federation), in the total number of scientific and pedagogical workers implementing the master's program, must be at least: 65 percent for an applied magistracy.

The share of research and teaching staff (in terms of integer rates) of the managers and employees of organizations whose activities are related to the focus (profile) of the implemented master program (having a work experience in this professional field of at least 3 years) in the total number of employees implementing a master's program should be at least 25 percent for an applied master's program.

The general management of the scientific content of a magistracy program with a specific focus (profile) should be carried out by a full-time research and teaching organization that has a degree (including a degree awarded abroad and recognized in the Russian Federation), carrying out independent research (creative) projects (participating in the implementation of such projects) in the direction of training, having annual publications on the results of the specified research (creative) telnosti in leading national and (or) international peer-reviewed scientific



journals and publications, as well as carrying out an annual approbation of the results of this research (creative) activities on national and international conferences.

Master Program Structure		Scope of the program magistracy in t.u.
Block 1	Disciplines	51-69
	Basic part	18
	Variable part	33-51
Block 2	Practices, including research work (RW)	42-63
	Variable part	42-63
Block 3	State final certification	6-9
	Basic part	6-9
Master's program volume		120

Disciplines related to the basic part of the master's program are mandatory for students to learn, regardless of the profile of the program that he masters.

#### The list of basic disciplines

Code disciplines	Name of the discipline base part	Labor intensity in the test units	The requirement of the FSES HE the volume of disciplines base part
B1.B.01	Managerial Economics	4	18
B1.B.02	Theory of Organization and Organizational Behaviour	4	
B1.B.03	Research Methods in Management	4	
B1.B.04	Foreign Language	6	
Program total		18	

Disciplines and practices, including R & D, related to the variable part of the graduate program, determine the profile of the graduate program.

#### The list of disciplines of the variable part, including the choice

Code disciplines	Name of the discipline base part	Labor intensity in the test units	The requirement of the FSES HE the volume of disciplines variable part
Variable disciplines, mandatory			
B1.V.01	Corporate Finance	3	33-51
B1.V.02	History and Methodology of Management	2	
B1.B.03	Low Regulation of External Economic Activity	2	
B1.V.04	Strategic Management of Logistics	4	
B1.V.05	Human Resource Management	2	
B1.V.06	Supply Management	4	
B1.V.07	Commerce Management	4	
B1.V.08	Current Strategic Analysis	3	
Program total		24	
Optional disciplines, optional			
<b>B1.V.DC.01</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.01</b>		33-51
B1.V.DC.01.01	Intellectual Technologies in Management	3	
B1.V.DC.01.02	Imitative Modeling of Supply Chain	3	
<b>B1.V.DC.02</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.02</b>		
B1.V.DC.02.01	Logistic Outsourcing	2	
B1.V.DC.02.02	Risk Management in Supply Chain	2	

Code disciplines	Name of the discipline base part	Labor intensity in the test units	The requirement of the FSES HE the volume of disciplines variable part
<b>B1.V.DC.03</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.03</b>		
B1.V.DC.03.01	Methods and Models of Logistic Flow Optimization	2	
B1.V.DC.03.02	Mathematical Modeling of Supply Chain	2	
<b>B1.V.DC.04</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.04</b>		
B1.V.DC.04.01	Marketing Analysis of Commerce	4	
B1.V.DC.04.02	Marketing Analysis in Business Planning	4	
<b>B1.V.DC.05</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.05</b>		
B1.V.DC.05.01	Logistic Infrastructure Design	4	
B1.V.DC.05.02	Business Planning of Logistic Infrastructure	4	
<b>B1.V.DC.06</b>	<b>DISCIPLINES BY CHOICE B1.V.DC.06</b>		
B1.V.DC.06.01	Logistic Engineering	3	
B1.V.DC.06.02	Project Management in Logistics	3	
<b>ETD</b>	<b>Electives</b>		
ETD.01	Logic	2	
ETD.02	Net Planning and Supply	2	
Program total		16	

Students make a choice of discipline based on a personal statement.

#### List of practices

Code practice	Name practice	Type of practice	Method of conducting	Labor intensity in the test units	The requirement of the FSES HE the volume of practice
B2.V.01 (I)	Introductive (analytical)	Training obtaining primary professional skills	Stationary	6	42-63
B2.V.02 (R)	Professional Training (the half-year Scientific Research)	Training obtaining professional skills and experience	Stationary	12	
B2.V.03 (P)	Professional (technological)	Training obtaining professional skills and experience	Stationary Exit	6	
B2.V.04 (P)	Professional (managerial)	Training obtaining professional skills and experience	Stationary Exit	9	
B2.V.05 (Pd)	Professional Training (Prediploma Internship)	-	Stationary Exit	18	
Program total				51	

The practitioners envisaged by the VET are obligatory and represent a type of training that is directly oriented towards the professional and practical training of students.

The formation of competencies in the study of disciplines, practical training, preparation and conduct of the state final certification is given in the following matrix of correspondence of competencies and the parts of the graduate program that form them.

The planned learning outcomes for each discipline and practice - knowledge, skills, abilities and / or experience, characterizing the stages of competence formation and ensuring the

achievement of the planned results of mastering the educational program of the magistracy are given in the work programs of disciplines and practices.

	Block 1 "Disciplines"																Block 2 "Practices, including research work"	Block 3 "State final certification "																	
	B1.B Basic part				B1.V Variable part												B2 Variable part	B3 Variable part																	
	Disciplines				Disciplines												Practices, including research work	Protection of final qualifying																	
Competence Code	B1.B.01	B1.B.02	B1.B.03	B1.B.04	B1.V.01	B1.V.02	B1.V.03	B1.V.04	B1.V.05	B1.V.06	B1.V.07	B1.V.08	B1.V.DC.01.01	B1.V.DC.01.02	B1.V.DC.02.01	B1.V.DC.02.02	B1.V.DC.03.01	B1.V.DC.03.02	B1.V.DC.04.01	B1.V.DC.04.02	B1.V.DC.05.01	B1.V.DC.05.02	B1.V.DC.06.01	B1.V.DC.06.02	ED.01	ED.02	B2.V.01 (I)	B2.V.02 (P)	B2.V.03 (P)	B2.V.04 (P)	B2.V.05 (P)	B3.B.01			
GCC-1	+	+	+																																+
GCC-2		+	+																																+
GCC-3			+	+										+	+																				+
GPC-1				+																															+
GPC-2		+																																	+
GPC-3	+		+											+	+																				+
PC-1	+	+												+	+																				+
PC-2																																			+
PC-3																																			+
PC-4			+																																+
PC-5																																			+

### **5 Documents regulating the content and organization of the educational process in the implementation of the educational program of the magistracy**

The content and organization of the educational process during the implementation of the program of the magistracy is regulated by the curriculum, calendar educational schedule, work programs of disciplines, practice programs, the program of state final attestation, assessment tools, teaching materials.

#### 5.1 Curriculum

The curriculum is developed in accordance with the requirements of the Federal State Educational Standard of Higher Education in the direction of training 38.04.02 Management (Master's level), approved by order of the Ministry of Education and Science of the Russian Federation dated March 30, 2015 No. 322 and is included as mandatory component in the educational program of the magistracy.

The curriculum displays a logical sequence of mastering disciplines and internships based on their continuity, ensuring the formation of competencies and a rational distribution of disciplines over the years of study from a position of uniformity of the student's academic work, effective use of the personnel and material-technical potential of the University. In the curriculum, the contact work of students with a teacher (by type of study) and independent work of students in academic hours are highlighted. In the curriculum, the total labor intensity of each discipline, each practice, state final certification in credit units and academic hours are indicated; as well as types of educational activities and forms of intermediate certifications.

#### 5.2 Schedule training schedule

In the calendar educational schedule indicates the sequence of implementation of the master's program for semesters and years, including theoretical training, practice, intermediate and state final certification and the vacation period.

### 5.3 Work programs of disciplines

The work program of the discipline includes:

- name of the discipline;
- a list of the planned learning outcomes in the discipline, correlated with the planned results of the development of the educational program;
- an indication of the place of discipline in the structure of the educational program;
- volume of discipline in credit units indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training sessions) and for independent work of students;
- content of the discipline, structured by topics (sections), indicating the number of academic or astronomical hours and types of training sessions assigned to them;
- a list of teaching and methodological support for independent work of students in the discipline;
- a fund of appraisal funds for intermediate certification of students in the discipline;
- a list of basic and additional educational literature necessary for the development of the discipline;
- a list of resources of the Internet information and telecommunications network necessary for mastering the discipline;
- guidelines for students on the development of the discipline;
- a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
- A description of the material and technical base necessary for the implementation of the educational process on the discipline.

Methodical instructions for students on mastering the discipline, materials of the fund of assessment tools for conducting ongoing monitoring of progress and intermediate certification of students on the discipline, as well as other additional materials on mastering the discipline, are given in the annexes to the work programs of the disciplines and are displayed in the electronic information and educational environment of ISTU.

### 5.4 Practical work programs

In accordance with the Federal State Educational Standard of Higher Education in the direction of training 38.04.02, management practices are mandatory and represent a type of training that is directly focused on the professional and practical training of students.

During the implementation of the EPRP, training, production, including pre-diploma, practices are envisaged. Ways of conducting educational and industrial practices: stationary and on-site. Pre-diploma practice is carried out to perform final qualifying work.

Educational practice is conducted in the structural units of the organization FSBEI HE IrSTU.

The organization of the practice is carried out by organizations on the basis of an agreement with organizations whose activities correspond to professional competencies mastered within the educational program of the magistracy.

The place of passage of industrial, including pre-diploma practice can be chosen by the student independently or proposed by the head of internship from the department.

The practice program includes:

- an indication of the type of practice, method and form (forms) of its implementation;

- a list of the planned learning outcomes during the internship, correlated with the planned results of the development of the educational program;
- an indication of the place of practice in the structure of the educational program;
- an indication of the amount of practice in credits and its duration in weeks or in academic or astronomical hours;
- content of practice;
- indication of reporting forms in practice;
- a fund of appraisal funds for intermediate certification of students in practice;
- a list of textbooks and resources of the Internet information and telecommunications network necessary for the practice;
- a list of information technologies used in the practice, including a list of software and information reference systems (if necessary);
- A description of the material and technical base necessary for the practice.

## **6 A system for assessing the quality of student learning graduate education program**

The system for assessing the quality of students' mastery in the educational program of the magistracy includes ongoing monitoring of progress, intermediate certification and state final certification.

### 6.1 Regulatory and methodological support of the student learning system graduate education program

The regulatory and methodological base of the system for assessing the quality of mastering students in master's graduate programs is:

- Federal State Educational Standard of Higher Education in the direction of training 38.04.02 Management (Master's level), approved by order of the Ministry of Education and Science of the Russian Federation dated March 30, 2015 No. 322;
- Charter of the Federal State Budgetary Educational Institution of Higher Education «Irkutsk State University of Communications»;
- Regulations on the formation of the fund of appraisal funds for the current monitoring of progress, interim and state final certification № P.312000.06.7.188-2017;
- Regulations on the state final certification (higher education - bachelor-at, specialty, magistracy) № P.311000.06.7.222-2016;
- Regulations on the forms, frequency and order of the current monitoring of progress and intermediate certification of students (higher education - bachelor degree, specialty, magistracy) No. P.311000.06.7.180-2018;
- Regulations on the organization of contact work of students with a teacher No. P.312000.06.7.209-2017.

### 6.2 Assessment funds for performance monitoring and intermediate certification

In accordance with the Federal State Educational Standards of Higher Education in the direction of training 38.04.02 Management for the certification of students for the compliance of their personal achievements with the stage-by-stage requirements of the PEPE, funds of assessment tools were created to conduct ongoing performance monitoring and intermediate certification.

The forms and procedures for conducting current control and intermediate certification for each discipline and practice are reflected in the work programs of disciplines and practices and are communicated to students by placing them in the electronic information and educational environment of IrSTU.

The fund of appraisal funds for the intermediate certification of students in a discipline or practice, which is part of the work program of the discipline or practice program, respectively, includes:

- a list of competencies with an indication of the stages of their formation in the process of mastering the educational program;
- description of indicators and criteria for evaluating competencies at various stages of their formation, description of assessment scales;
- typical control tasks or other materials necessary for the assessment of knowledge, skills, abilities and (or) work experience, characterizing the stages of the formation of competencies in the process of mastering the educational program;
- teaching materials that define the procedures for evaluating knowledge, skills, abilities and (or) experience, characterizing the stages of the formation of competencies.

For each result of training in a discipline or practice, indicators and criteria for evaluating the formation of competencies at various stages of their formation, scales and assessment procedures are defined.

### 6.3 State final certification

State final certification includes the protection of final qualifying work, as well as preparation for protection and protection procedure. The program of state final certification determines the requirements for the content, scope and structure of final qualification works.

The graduate qualification work of a graduate student is a complete theoretical or experimental study related to the solution of individual particular problems, determined by the features of the training direction, the features of the program profile.

The fund of appraisal funds for final (state final) certification includes:

- list of competencies that students should master as a result of mastering an educational program;
- description of indicators and criteria for assessing competencies, as well as assessment scales;
- typical control tasks or other materials necessary for evaluating the results of mastering the educational program;
- teaching materials that determine the procedure for evaluating the results of the development of the educational program.

## **7 Conditions for the implementation of the master's educational program**

### 7.1 Staffing

The staffing of the master's educational program meets the requirements of the Federal State Educational Standards of Higher Education in the direction of training 38.04.02

- qualification of leading and scientific-pedagogical workers of IrSTU corresponds to the qualification characteristics established in the Unified Qualification Reference Book of Managers, Specialists and Employees, section "Qualification Characteristics of Managers and Specialists of Higher Professional and Additional Professional Education", approved by order of the Ministry of Health and of Social Development of the Russian Federation dated January 11, 2011 No. 1n (registered for by the Ministry of the Russian Federation dated March 23, 2011, registration number 20237), and professional standards (if any);

- the share of full-time scientific and pedagogical workers (in the rates given to integer values) is 84.30 percent of the total number of scientific and pedagogical workers of IrSTU;

- the share of scientific and pedagogical workers (in terms of integer rates) with an education corresponding to the profile of the taught discipline (module), in the total number of scientific and pedagogical workers implementing the master's program, must be at least 70 percent;

- the proportion of scientific and pedagogical workers (in terms of integer rates) with a degree (including a degree awarded abroad and recognized in the Russian Federation) and (or) an academic title (including an academic title received abroad and recognized in the Russian Federation), in the total number of scientific and pedagogical workers implementing the master's program, must be at least: 65 percent for an applied magistracy;

- the share of scientific and pedagogical workers (in terms of integer rates) from the number of managers and employees of organizations whose activities are related to the focus (profile) of the implemented master program (having a work experience in this professional field for at least 3 years) in the total number of employees implementing a master's program should be at least 25 percent for an applied master's program;

- the general management of the scientific content of the master's program is carried out by a full-time research and teaching staff of IrSTU, who has a Ph.D. / PhD degree, carrying out independent research (creative) projects (participating in the implementation of such projects) in the direction of training, and having annual publications on the results specified research (creative) activities in leading domestic and (or) foreign peer-reviewed scientific journals and publications, as well as carried out yuschim annual testing of the results of this research (creative) activities at national and international conferences.

The average annual number of publications of scientific and pedagogical staff of IrSTU for the period of implementation of the master's program per 100 scientific and pedagogical workers (in terms of integer rates) is at least 2 in journals indexed in the Web of Science or Scopus databases, or not less than 20 in journals indexed in the Russian Science Citation Index.

## 7.2 Educational, methodical and informational support

The disciplines and practices of the master's educational program are provided with basic and supplementary educational literature recommended in the work programs of disciplines and practices.

Students have access to all departments of the IrSTU library. The students are given free access to reference materials and periodicals, which are represented in the library of ISTU.

During the entire training period, each student is provided with individual unlimited access to electronic library systems (ELS):

- Lan publishing house (<http://www.e.lanbook.com>);
- «University Library Online» (<http://www.biblioclub.ru>);
- «Troitsky Bridge Publishing House» (<http://www.trmost.com/tm-main>);
- «EBS Yurayt» (<http://www.biblio-online.ru>);

also students have access to:

- electronic library of publications FSBEU «UMTS ZHDT» (<http://library.miit.ru>);
- bibliographic database «Interregional analytical list of journal articles» (DB «MARS»), integrated into the library electronic catalog of the University by a separate database;
- database «Polpred.com Media Review» (<http://polpred.com/news/>);
- Federal portal «Russian education» (<http://www.edu.ru/>);
- to a single window of access to educational resources (<http://window.edu.ru/>).

During the entire period of study, each student has individual, unlimited access to the electronic information and educational environment of IrSTU, which provides:

- access to the curriculum, work programs of disciplines (modules), practices, to e-books of electronic library systems and electronic educational resources specified in the work programs;

- fixing the progress of the educational process, the results of intermediate certification and the results of mastering the main educational program;

- formation of the student's electronic portfolio, including the preservation of the student's work, reviews and assessments for these works from any participants in the educational process;

- interaction between participants of the educational process, including synchronous and asynchronous interaction via the Internet.

Electronic library systems and electronic information-educational environment IrSTU provide simultaneous access to 25 percent of students enrolled in the master's program.

The IrSTU Library Fund is equipped with printed publications at the rate of 50 copies of each of the main literature editions listed in the work programs of practical disciplines and 25 copies of additional literature per 100 students.

Students are provided with access (remote access) to modern professional databases and information reference systems, the composition of which is determined in the work programs of the disciplines.

The master's educational program is provided with the necessary set of licensed software, the composition of which is determined by the work programs of the disciplines.

Students with disabilities are provided with printed and (or) electronic educational resources in forms adapted to their health restrictions.

### 7.3 Logistics

The material and technical base of IrSTU complies with the existing fire regulations and standards and allows for all types of disciplinary and interdisciplinary training, practical and research work of students as provided by the curriculum.

The university has special premises, which are classroom audiences, for conducting lecture-type classes, seminar-type classes, course design (coursework), group and individual consultations, current control and intermediate certification, as well as self-study Works and facilities for storage and preventive maintenance of educational equipment. Special premises are equipped with specialized furniture and technical training aids for the presentation of educational information to a large audience.

To conduct lecture-type classes, there are sets of demonstration equipment and visual aids (presentations, posters, tables) providing thematic illustrations corresponding to the work programs of the disciplines.

The list of material and technical support necessary for the implementation of the educational program of the magistracy includes laboratory equipment for the disciplines, research activities and practices, the composition of which is determined by the work programs of the disciplines.

Rooms for independent work of students are equipped with computer equipment with the ability to connect to the Internet and provide access to the electronic information and educational environment of IrSTU.

### 7.4 Financial conditions for the implementation of the master's program

Financial support for the implementation of the master's program is provided not less than the basic standard costs for the provision of public services in the field of education for a given level of education established by the Ministry of Education and Science of the Russian Federation, taking into account correction factors that take into account the specifics of educational programs in accordance with the Methodology for determining standard costs. for the provision of public services for the implementation of educational programs of higher education tions in the field (field of study) and entrenched groups of specialties (training areas), approved by the Ministry of Education and Science of the Russian Federation dated October 30, 2015 N 1272 (registered by the Ministry of Justice of the Russian Federation of November 30, 2015, registration N 39898).

The average annual amount of research funding for one scientific and pedagogical worker (in terms of integer rates) is no less than the value of a similar monitoring indicator of the education system, approved by the Ministry of Education and Science of the Russian Federation.



## **8 Organization of the educational process for teaching people with disabilities and persons with disabilities**

Adaptation of educational programs and teaching and methodological support of the educational process for persons with disabilities and persons with disabilities is implemented, if necessary, by including specialized adaptation disciplines in the variable part of the educational program for additional individualized correction of violations of educational and communication skills, professional and social adaptation in higher education. The University provides students with disabilities and persons with disabilities with the opportunity to master specialized adaptation disciplines, which are included in the variable part of the main educational program.

Students with disabilities, unlike other students, have their own specific characteristics of perception and processing of the material. Selection and development of training materials should be made in order to provide this material in various forms so that people with hearing disabilities receive information visually, with visual impairments - audibly (for example, using speech synthesizer programs) or using tifloinformatsionnyh devices.

When determining the places of educational and industrial practices for disabled people and people with disabilities, the University takes into account the recommendations of medical and social expertise, reflected in the individual program of rehabilitation of the disabled, regarding the recommended conditions and types of work. If necessary, special workplaces are created for passing the practice in accordance with the nature of the violations, as well as taking into account the professional type of activity and the nature of the work performed by the disabled student.

For the implementation of procedures for monitoring progress and interim attestation, the University, if necessary, creates funds of assessment tools adapted for people with disabilities and people with disabilities and allowing them to evaluate the achievement of the learning outcomes planned in the main educational program and the level of development of all competencies stated in educational program.

The form of conducting current and final certification for students with disabilities is established taking into account individual psychophysical features (orally, in writing on paper, in writing on a computer, in the form of testing, etc.). If necessary, the disabled student is given additional time to prepare an answer for a test or examination.

The University develops, if necessary, individual curricula and individual learning schedules for people with disabilities and people with disabilities. The period of obtaining higher education in the course of training under the individual curriculum for people with disabilities and persons with disabilities may be extended, if necessary, but by no more than six months. In drawing up an individual training schedule, it is necessary to envisage various options for conducting classes: in an educational organization (in an academic group and individually), at home using distance learning technologies.

Measures to promote the employment of graduates with disabilities The University carries out in collaboration with state employment centers, non-profit organizations, public organizations of disabled people, enterprises and organizations.

## **9 Characteristics of the socio-cultural environment by IrSTU**

The socio-cultural environment of the university is a combination of social, material and spiritual conditions in which the educational activities of all subjects of the educational process are realized.

One of the leading goals of IrSTU is to create an educative socio-cultural environment that provides the opportunity for students to develop their social and personal (general cultural) competencies, the development of a creative, professional and culturally oriented personality. Methodical means of achieving the goal can be those properties of the socio-cultural environment that enrich students' individual experience in solving significant personal and social

problems. Areas of educational activities implemented in IrSTU: ideological, civil-patriotic, legal, spiritual and moral, aesthetic, socio-psychological, professional-labor, physical, the formation of the foundations of a healthy lifestyle.

The concept of the formation of the educational social and cultural environment of the Irkutsk State University of Railway Transport is determined by the following regulatory documents:

- Federal Law of the Russian Federation of December 29, 2012 No. 273-FL «On Education in the Russian Federation» in the latest edition;
- The concept of educational work in the university complexes of the Federal Agency for Railway Transport;
- Charter of the Federal State Budgetary Educational Institution of Higher Education «Irkutsk State University of Communications»;
- The concept of educational activities IrSTU;
- The concept and program of patriotic education of students;
- The concept and program of legal education of students;
- The concept and program of prevention of addictive (dependent) behavior and the diseases associated with it in the student environment of IrSTU;
- Regulations on the department of extracurricular and educational work;
- Regulations on the Coordination Council on the educational work of the university complex IrSTU;
- Code of professional ethics of the teacher;
- Code of honor student IrSTU;
- Regulations on the organization of educational and extracurricular work with IrSTU students;
- Regulations on the curator of the academic group IrSTU;
- Regulations on the Museum of History IrSTU;
- Regulations on the sports club;
- Regulations on the center of culture and leisure;
- Regulations on the Cabinet for the Prevention of Socially Negative Phenomena in the Irkutsk State University of Communications;
- Regulations on the operation of the SSO;
- Regulations on the work of the League of intellectual games, on clubs, competitions and events;
- Regulations on the annual admission of the Rector of teachers and students of the Golden Fund of the Irkut State University of Communications on the basis of the academic year;
- Regulations on the assignment of the mark «For Excellent Study» of the Irkutsk State University of Communication;
- Regulations on the Book of Honor «The Golden Fund of the Irkutsk State University of Communication of the message»;

Management and organization of educational activities. Management structure of the educational process:

- rector;
  - Vice Rector for Academic Affairs;
  - Vice-rector for educational work;
  - Coordination Council of the University complex IrSTU;
  - Deans of faculties, structural units of IrSTU and student self-government bodies.
- Self-government student structures: the primary trade union organization of students; student council hostels; MTR headquarters.

The SSU IrSTU includes the following units:

- The student general detachment of Barguzin guides (consisting of 30 line units, based in Irkutsk, Severobaikalsk, Ulan-Ude, Yekaterinburg);
- Student construction squad «Baikal» (Vostochny cosmodrome);
- Student construction unit «Baikal-BAM», participating in the construction of the second line of BAM (Taksim-Lodya);
- Student construction squad «Baikal-Hubsugul» (Ulan-Bator railway, Mongolia);
- Student Teaching Unit «Altair» them. V. Pravika, organizing the work of those in the children's camps.

The participation of students in the work of student construction teams contributes to the strengthening of professional, organizational, communicative, environmental and health-saving competencies of ISTU students, developing responsibility, self-reliance, creative and social activity.

Students 'self-government develops the competence of students' personal self-improvement: active citizenship; responsibility, independence, leadership skills, willingness and ability to learn throughout life; communicative, health saving and organizational skills, ability to successfully interact in a team, adequately respond to any changes, make management decisions and choose the optimal course of conduct in difficult life situations.

Educational activities of ISTU units:

- Scientific and Technical Library IrSTU and Museum of History IrSTU hold meetings with honorary railway workers, with the representative