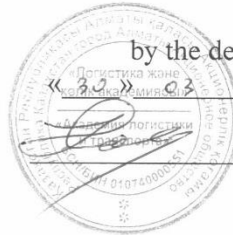


Joint Stock Company "Academy of Logistics and Transport"



I APPROVE
by the decision of AS ALT from
2023 г. (Protocol №/3)
President-Rector
Амиргалиева С.Н.

EDUCATIONAL PROGRAM

Name: "7M07346 – Transport construction"

Level of training: Master's degree scientific and pedagogical

Code and classification of training areas: 7M073 – Architecture and construction

Code and group of educational programs: M126 – Transport construction

Date of registration in the Registry: 06.05.21

Registration number: 7M07300153

Алматы, 2023 г.

CONTENT

1. Information about the review, approval and approval of the program, developers, experts and reviewers	3
2. Regulatory references	5
3. Passport of the educational program	6
4. The graduate's competence model	7
5. Matrix of correlation of learning outcomes according to the educational program with academic disciplines/modules	13
6. Structure of the Bachelor's degree program	15
7. Working curriculum for the entire duration of training	16
8. Catalog of disciplines of the university component	17
9. Catalog of disciplines of the component by choice	20
10. Expert opinions	26
11. Reviewer's conclusion	27
12. Recommendation letters	28
13. Protocols of review and approval	29
14. Approval Sheet	32
15. Change Registration Sheet	33

1. INFORMATION ABOUT THE REVIEW, APPROVAL AND APPROVAL OF THE PROGRAM, DEVELOPERS, EXPERTS AND REVIEWERS


1. DEVELOPED:

Academician Professor of ALaT
(job title)


(signature)

Khasenov S.S.
(FULL NAME.)

Assoc. Professor of ALaT
(job title)


(signature)

Bondar I.S.
(FULL NAME.)

Assoc. Professor ALaT
(job title)


(signature)

Kvashnin M.Ya.
(FULL NAME.)

V.N.S., Doctor of Technical
Sciences, Professor of KazdorNTI
JSC
(job title)


(signature)



Шалқаров А.А.
(FULL NAME.)

Master student gr. MN-ITI-21-1
(job title)


(signature)

Konysbay A.D.
(FULL NAME.)

2 EXPERTS:

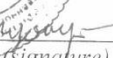
Candidate of Technical Sciences,
Director of GEO TRACK LLP
(job title)


(signature)



Nusupov D.K.
(FULL NAME.)

Deputy Director of GEO TRACK
LLP
(job title)


(signature)

Masanov T.K.
(FULL NAME.)

3 REVIEWER:

Professor KazNRTU named after
K.I.Satpayev
(job title)


(signature)

Shayakhmetov S.B.
(FULL NAME.)

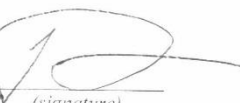
4 REVIEWED AND RECOMMENDED:

Meeting of the AC (department)
"SI"
Protocol No. 6
03/15/2023


(signature)

Ismagulova S.O.
(FULL NAME.)

Meeting of KOK-UMB "ITI"
Protocol No. 7
03/15/2023


(signature)

Chigambaev T.O.
(FULL NAME.)

UMC meeting
Protocol No. 4a
29.03/2023


(signature)

Zharmagambetova M.S.
(FULL NAME.)

5 APPROVED by decision of the Academic Council dated March 30, 2023

No. 13

6 UPDATED 05/25/2023

2. REGULATORY REFERENCES

The educational program is developed on the basis of the following legal acts and professional standards:

1. The Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III (with amendments and additions as of March 27, 2023).
2. The National Qualifications Framework approved by the Protocol of March 16, 2016 by the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations.
3. The sectoral qualifications framework of the field of "Education", approved by the Minutes of the meeting of the sectoral Commission of the Ministry of Education and Science of the Republic of Kazakhstan on social partnership and regulation of social and labor relations in the field of education and science dated November 27, 2019 No. 3.
4. State mandatory standard of higher and postgraduate education (Order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated February 20, 2023 No. 66).
5. Qualification directory of positions of managers, specialists and other employees, approved by Order of the Minister of Labor and Social Protection of the Republic of Kazakhstan dated August 12, 2022 No. 309.
6. Professional standard "Teacher", approved by Order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 500 dated December 15, 2022.
7. Professional standard "Science", project of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken".
8. Rules for the organization of the educational process on credit technology of education in organizations of higher and (or) postgraduate education, approved by the Order of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan No. 152 dated 20.04.2011. (with additions and amendments dated April 04, 2023 No. 145).
9. Classifier of training areas with higher and postgraduate education, approved by Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 13, 2018 No. 569 (with amendments and additions as of June 05, 2020)10.
10. The algorithm of inclusion and exclusion of educational programs in the Register of educational programs of higher and postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated December 4, 2018 No. 665 (with additions and amendments as of December 23, 2020 No. 536)
11. RI-ALT-33 "Regulations on the procedure for the development of educational programs of higher and postgraduate education".

PASSPORT OF THE EDUCATIONAL PROGRAM

№	Field name	Description
1	Registration number	
2	Code and classification of the field of Education	7M07-engineering, manufacturing and construction industries
3	Code and classification of training areas	7V073 architecture and construction
4	Code and group of educational programs	M126-transport construction
5	Name of the educational program	7M07346-transport construction
6	Type of OP	new
7	Purpose of the OP	Development of organizational and managerial, analytical, research and pedagogical competencies in the field of training highly qualified competent specialists of professional orientation in the field of transport and Communication Complex, as well as research and scientific-pedagogical personnel, design, construction, technical construction, maintenance and repair of transport systems and transport structures.
8	Level by PSC	7
9	Level according to the NCC	7
10	Level according to the SBP	7
11	Distinctive features of the OP	No
	Partner universities (SOP)	-
	Partner universities	-
12	Form of training	Face to face
13	Language of instruction	Kazakh, Russian
14	Volume of loans	120
15	Academic degree awarded	Master of technical sciences in the educational program 7M07346 - "transport construction"
16	Availability of an attachment to the license for the direction of training	
17	Availability of EP accreditation	
	Name of the accreditation body	
	Terms of accreditation	

4. THE GRADUATE'S COMPETENCE MODEL

Objectives of the educational program:

1. Assistance in the formation of the graduate's ability:
 - 1) demonstrate the developing knowledge and understanding gained at the level of higher education, which are the basis or opportunity for the original development or application of ideas, often in the context of scientific research;
 - 2) apply knowledge, understanding and the ability to solve problems in new or unfamiliar situations in contexts and within broader (or interdisciplinary) areas related to the field being studied;
 - 3) integrate knowledge, cope with difficulties and make judgments based on incomplete or limited information, taking into account ethical and social responsibility for the application of these judgments and knowledge;
 - 4) clearly and clearly communicate their conclusions and knowledge, and their justification to specialists and non-specialists;
2. Assistance in the formation of graduate readiness:
 - 1) develop design documentation for the creation and modernization of railway rolling stock;
 - 2) perform design work on the creation and modernization of the railway track;
 - 3) develop technical documentation and methodological materials, proposals and measures for the creation and modernization of the railway track.
 - 4) to carry out a technical and economic analysis, a comprehensive justification of the decisions taken and implemented in the field of operation, repair and maintenance of railway rolling stock, their aggregates, systems and elements;
 - 5) apply the results in practice, striving for self-development, improving their skills and skills.
 - 6) to the economical and safe use of natural resources, energy and materials in the operation, repair, maintenance of railway transport and structures.

Learning outcomes:

RO1-knows the features of the scientific worldview, the methodology of scientific research. The concept of Science in the transport sector of the Republic of Kazakhstan. Final elements and basic operations with elements. Able to apply philosophical knowledge in complex research, critically analyze existing concepts, theories and approaches to the analysis of processes and phenomena. Has the skills of carrying out interdisciplinary research, modern methods of forming ideas in solving scientific and technical problems.

RO2-reflects knowledge of the basic concepts and fundamental laws of physics, applies methods of theoretical and experimental research of physical and chemical phenomena, processes and objects. Uses the physical and mathematical apparatus to develop simple mathematical models of phenomena, processes and objects under given assumptions and constraints. Basic Laws of hydrostatics, kinematics, statics and dynamics of moving flo.

RO3 - knows the basic theoretical, methodological and ethical principles of the construction and conduct of pedagogical research; - specifics, structure and models of the construction of the pedagogical process. Able to build the educational process, taking into account the conditions, individual characteristics and psychophysical capabilities of the individual; - build the educational process in the context of socialization of the individual; possess the skills of analysis and processing of pedagogical information

RO4 - know the basic provisions and regulatory requirements of the Constitution of the Republic of Kazakhstan and legislation on management and business organization; - know international quality standards. Can apply in practice methods for determining social, environmental and technical economic indicators of managerial activity and business efficiency. He is well versed in obtaining, processing and transmitting information using modern technical means.

Ro5-knows the methodology of scientific research. The concept of Science in the transport sector of the Republic of Kazakhstan. The latest elements and basic operations with elements identify dangerous and harmful factors and analyze their impact, master the methods and means of ensuring a safe life. Having mastered a whole system of scientific knowledge about the world around him, he is able to navigate in emergency situations of a natural and man-made nature. To solve environmental problems, it uses engineering methods and modern scientific knowledge about projects and designs of technical devices that provide for the preservation of environmental balance and ensure the safety of life, electrical and fire safety. Complies with labor protection and safety requirements in professional activities.

RO6-can critically analyze existing concepts, theories and approaches to the analysis of processes and phenomena. Master modern methods of forming ideas in solving scientific and technical problems. Knows the finite element method (MKE). Final elements and basic operations with elements. Knows: can combine the knowledge gained in different disciplines to solve complex engineering problems. Has the skills to use the acquired knowledge for the initial development and application of ideas in the context of scientific research.

RO7-knows the types and purpose of transport structures and their additional structures; modern methods of design and calculation of transport structures, criteria for the appointment of complex repair complexes of transport structures. Knows how to design and calculate transport structures, taking into account the influence of various factors. He has the skills of selection and technical and economic justification of the structures of transport structures.

Ro8-knows the types and technologies of work on the maintenance of transport structures; criteria for the appointment of complexes for the overhaul of transport structures. The ability to independently make decisions based on the knowledge gained. Master rational ways of searching and using scientific and technical information in the field of railway transport.

RO9-knows the types and purpose of transport structures and their additional structures; modern methods of design and calculation of transport structures. Knows how to design and calculate transport structures, taking into account the influence of various factors. Calculation of the main and additional technical and economic indicators of the project. He has the skills of selection and technical and economic justification of the structures of transport structures.

Ro10-about-knows operational management systems, the process of production management, its content and characteristics; methods of making management decisions; leadership style. Can develop the organization of the company's operational activities. He mastered the methods of analysis of operational activities; methods of development and adoption of ur based on the results of the analysis.

Field of professional activity:

Railway transport, transport construction.

Objects of professional activity:

- **Local executive authorities in the field of railway transport and their regional structures;**
- **Organizations and enterprises of the transport industry in the field of management, operation, maintenance of railway tracks, urban rail transport and subways, as well as industrial transport;**
- **Organizations and enterprises of the transport industry in the field of technologies of material-processing production during maintenance, rail urban transport, subways and industrial transport.**

Types of professional activity:

- **production and technological;**
- **organizational and managerial;**
- **experimental research;**
- **settlement and design;**
- **scientific research;**
- **pedagogical.**

Functions of professional activity:

- 1) participation in the development of projects of technical conditions and requirements, standards and technical descriptions, regulatory documentation for new objects of professional activity; formation of project goals (programs), problem solving, criteria and indicators of achievement of goals, building a structure of their interrelations, identification of priorities for solving problems taking into account the moral aspects of activity;
- 2) participation in the design of new and reconstruction (modernization) of existing transport facilities, in the development of technological processes for maintenance and repair of transport facilities;
- 3) the use of information technologies in the calculations of transport structures, the design of new and reconstruction (modernization) of existing transport structures, the development of technological processes for maintenance and repair of transport structures;
- 4) economic and organizational planning calculations for the reorganization of production;
- 5) development of theoretical models that make it possible to predict changes in the technical condition of transport facilities and the dynamics of the parameters of the efficiency of their technical operation; analysis of the state and dynamics of quality indicators of objects of professional activity using the necessary research methods and tools; development of plans, programs and methods for conducting research of objects of professional activity; conducting scientific research on separate sections (stages, tasks) topics as a responsible performer or together with a scientific supervisor;
- 6) analysis, synthesis and optimization of quality assurance processes for testing, certification of products and services using problem-oriented methods; information search and analysis of information on research objects; implementation of metrological verification of basic measuring instruments; implementation of experimental design developments; justification and application of new information technologies; participation in the preparation of practical recommendations on the use of research and development results;

7) organization of the work of a team of performers, selection, justification, adoption and implementation of management decisions in the conditions of different opinions, determination of the order of work; organization and preparation of initial data for the selection and justification of scientific, technical and organizational decisions based on economic analysis;

8) organization of the process of education and upbringing in the field of education using technologies that reflect the specifics of the subject area and correspond to the age and psychophysical characteristics of students, including their special educational needs;

9) design of educational programs and individual educational routes of students; design of the content of academic disciplines (modules), forms and methods of control and control and measuring materials; design of educational environments that ensure the quality of the educational process; design of further educational route and professional career.

List of specialist positions: teacher of educational organization, leading researcher, senior researcher, researcher, junior researcher, head of research laboratory, head of laboratory, researcher, first head of production organization (enterprise), deputy head of production organization (enterprise), chief engineer of production organization (enterprise), head of structural divisions of a production organization (enterprise), deputy head of a structural subdivision of a production organization (enterprise), manager, engineering and technical worker.

Professional certificates obtained at the end of training:
not provided.

Requirements for the previous level of education: higher education (bachelor's degree).

The educational program of the scientific and pedagogical magistracy includes two types of practice:

- pedagogical practice – in the organization of education;
- research practice – at the place of the dissertation.

Pedagogical practice.

The pedagogical practice of undergraduates is the practical training of future teachers, conducted in conditions as close as possible to the professional activity of a teacher. Pedagogical practice is aimed at the formation of functional competencies, the development of abilities to perform tasks in the professional and educational spheres. In the process of pedagogical practice, the professional and personal development of future teachers is activated. During the practice, undergraduates draw up and implement an educational activity plan with a group of students, develop and conduct a system of classes reflecting the completed segment of the learning process based on the content of the profile disciplines, demonstrate mastery of modern technologies and teaching methods.

The purpose of pedagogical practice is:

- consolidation and deepening of knowledge in general scientific, psychological and pedagogical, methodological, basic and profile disciplines;
- formation of pedagogical skills, skills and competencies based on theoretical knowledge.

The program of pedagogical practice is developed by the department and approved by the President-Rector of the Academy of Logistics and Transport.

The program of pedagogical practice should be aimed at developing professionally significant skills in students and the formation of key competencies:

- planning, forecasting, analysis of the main components of the learning and upbringing process;
- the use of various forms and methods of organizing and implementing educational, educational, labor, social, environmental, recreational, gaming and other types of student activities;

- implementation of an individual approach to students in the course of educational and educational work, taking into account the peculiarities of their development;
- conducting pedagogical diagnostics of the state of the pedagogical process.

The bases of pedagogical practice are educational organizations that provide secondary vocational education, higher education.

The duration of pedagogical practice is determined by the Curriculum of the educational program in the direction of personnel training 7M073 Architecture and construction.

Research practice.

Research practice is a type of research activity aimed at deepening and systematizing the theoretical and methodological training of a graduate student, practical mastery of the technology of research activities, acquisition and improvement of practical skills in performing scientific and experimental work in accordance with the requirements for the master's level of training.

The students' research practice is conducted in order to familiarize themselves with the latest theoretical, methodological and technological achievements of domestic and foreign science, with modern methods of scientific research, processing and interpretation of experimental data. The content of the research practice is determined by the topic of the dissertation research.

The research practice of a master's student is conducted at the place of study or in scientific organizations that can be considered as experimental platforms for conducting research related to the subject of a master's thesis. During the practice, undergraduates are given the opportunity to conduct experimental research on a pre-developed program that takes into account the tasks of the master's thesis.

Research work of a master's student (NIRM)

NIRM planning in weeks is determined based on the standard time of the master's student during the week. The number of credits allocated for the implementation of research and development in a specific academic period is determined by the working curriculum of the professional educational program in the field of personnel training 7M073 Architecture and Construction.

The NIRM must:

- 1) correspond to the main problems of the master's degree program, on which the master's thesis is being defended;
- 2) be relevant and contain scientific novelty and practical significance;
- 3) be based on modern theoretical, methodological and technological achievements of science and practice;
- 4) be based on modern methods of data processing and interpretation using computer technology;
- 5) be carried out using modern methods of scientific research;
- 6) contain research (methodological, practical) sections on the main protected provisions.

The implementation of the master's thesis is carried out during the research period.

Within the framework of the NIRM, an individual master's work plan for familiarization with innovative technologies and new types of production provides **mandatory scientific internship in scientific organizations and (or) organizations of relevant industries or fields of activity.**

The purpose of the research work is to prepare a master's student who knows the methodology of scientific knowledge of processes and is able to apply scientific methods in the study of problems of modern production, the final result of whose research activity is the writing and successful defense of a master's thesis.

Tasks of research work:

- to prepare highly qualified specialists of modern formation with broad fundamental knowledge;

- to develop the abilities and abilities of undergraduates to critically analyze and master theoretical concepts in order to implement them in a practical plane and with subsequent testing at the international level;

- to form undergraduates' abilities for professional growth and self-development, skills of independent creative mastery of new knowledge throughout their active life.

As a result of mastering the master's program, graduates should be prepared to perform the following types and tasks of professional research work:

- demonstrate a systematic understanding of the field of study, mastery of the skills and research methods used in this field;

- plan, develop, implement and adjust the complex process of scientific research;

- to contribute with their own original research to the expansion of the boundaries of the scientific field, which may deserve publication at the national or international level;

- critically analyze, evaluate and synthesize new and complex ideas;

- communicate their knowledge and achievements to colleagues, the scientific community and the general public;

- to promote the development of a knowledge-based society.

The scientific internship is conducted in order to:

- implementation of the tasks of the master's thesis;

- familiarization with innovative technologies and new types of production;

- familiarization with the latest theoretical, methodological and technological achievements of domestic and foreign science;

- familiarization with modern methods of scientific research, processing and interpretation of experimental data;

- consolidation of theoretical knowledge gained in the process of learning the acquisition of practical skills, competencies and professional experience, as well as the development of best practices in this field.

Requirements for Research and development:

- 1) compliance with the main problems of the educational program of the master's degree, on which the master's thesis is defended;

- 2) relevant and contains scientific novelty and practical significance;

- 3) based on modern theoretical, methodological and technological achievements of science and practice;

- 4) is based on modern methods of data processing and interpretation using computer technology;

- 5) performed using modern methods of scientific research;

- 6) contains research (methodological, practical) sections on the main protected provisions.

The Academy defines special requirements for the preparation of a master's student in the research part of the program. Special requirements include:

- knowledge in the field of scientific and managerial activities in the conditions of constant updating of knowledge and modernization of society;

- conducting independent research activities on problems and disciplines;

- the ability of practical processing and transmission of information using modern technical means;

- ability to predict the directions of technical and scientific development of the country;

- possession of modern specialized skills and methods necessary for making effective decisions in the field of engineering and technology.

The main content of the NIRM is reflected in the individual work plan of the undergraduate.

The content of NIRM

The research work of a master's student can be carried out in the following forms:

- performance of tasks of the supervisor in accordance with the approved plan of research work;
- participation in the research work of the department;
- participation in scientific and methodological seminars held by the Academy, the Department;
- the use of modern methods of data processing and interpretation using computer technology;
- participation in the development of project documents and other provisions related to the subject area of scientific research;
- participation in scientific research, including joint research projects and programs;
- preparation and defense of a master's thesis.

The form of conducting a master's research work can be specified and supplemented depending on the specifics of the master's program, the topic of the master's thesis.

The master's research work includes:

- research work;
- scientific internship;
- scientific publications (participation in scientific conferences and seminars);
- writing a master's thesis.

Organization of scientific internship within the framework of NIRM

Scientific internship is one of the most important components in the preparation of masters and is implemented in accordance with the IPRM in terms determined by the academic calendar and the individual master's work plan.

The terms of the scientific internship are determined by the Academy independently. The scientific internship is usually planned for the second year of Master's degree.

The scientific internship of a master's student is carried out on the basis of contracts concluded with enterprises / organizations / institutions, universities and scientific organizations and leading scientists within the framework of Agreements and Memoranda of cooperation in the field of education and science, as well as on the basis of personal invitations from educational and scientific organizations.

The completion of training under exchange programs, including double degree programs, joint educational programs with foreign universities and organizations is equivalent to passing a scientific internship.

In case of non-completion of the scientific internship, the master's student is not allowed to the final certification.

The final certification of a master's student is carried out in the form of writing and defending a master's thesis.

The purpose of the final certification of a master's degree student is to assess the scientific-theoretical and research-analytical level of a master's degree student, formed professional and managerial competencies, readiness to independently perform professional tasks and compliance of his training with the requirements of the master's degree program.

Students who have completed the educational process in accordance with the requirements of the educational program, working curriculum and working curricula, as well as who have passed the preliminary defense (extended meeting) based on the results of the dissertation research are allowed to the final certification.

6. STRUCTURE OF THE MASTER'S DEGREE PROGRAM IN THE SCIENTIFIC AND PEDAGOGICAL DIRECTION

№ п/п	The name of the cycles of disciplines	Total labor intensity	
		in academic hours in academic credits	in academic hours in academic credits
1.	Theoretical training	2640	88
1.1	Cycle of basic disciplines (DB)	1050	35
1)	University component (VC):	600	20
	History and philosophy of science	150	5
	Foreign language (professional)	120	4
	Higher school pedagogy	150	5
	Management Psychology	60	2
	Pedagogical practice	120	4
2)	Elective component (CV)	450	15
1.2	Cycle of core disciplines (PD)	1590	53
1)	University component	600	20
2)	Component of choice	990	33
3)	Research practice	150	5
2.	Research work of a master's student	720	24
1)	Research work of a master's student, including internship and completion of a master's thesis	720	24
3	Additional types of training (DVO)	-	-
4	Final certification (GIA)	240	8
1)	Registration and defense of a master's thesis (OiZMD)	240	8
	Total	3600	120

7. CURRICULUM FOR THE ENTIRE PERIOD OF STUDY

JSC "Academy of Logistics and Transport"

CURRICULUM

Form of study: full-time

Training area:
7M073-Architecture and Construction

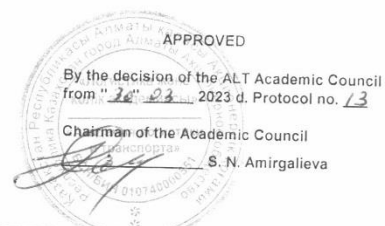
Duration of training: 2 years

Group of educational programs:
M126-Transport construction

Name of the educational program:
7M07346-Transport construction

Degree: Master of Technical Sciences

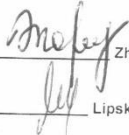
Admission: 2023



№	Discipline code	Name of cycles and disciplines	Total labor intensity		Control form, semester		Amount of training load, contact hours						Distribution by semester				Assignment to the department	
			in academic hours	in academic credits	Exam	KP (KR)	Total hours	Classroom settings			SRO		1st course		2nd course			
								lectures	practical features	laboratory data	SROP	SRO	1 sem. 15 weeks	2 sem. 15 weeks	3 sem. 15 weeks	4 sem. 15 weeks		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1. CYCLE OF BASIC DISCIPLINES (DB):																		
1.1.	University component:		600	20	5		600	68	82	0	32	298	9	11	0	0		
1.1.1.	23-0-M-VK-IFN	History and philosophy of science	150	5	1		150	30	15			8	97	5				SRSIFV
1.1.2.	23-0-M-VK-IYa(P)	Foreign language (professional)	120	4	1		120		45			8	67	4				YAP
1.1.3.	23-0-M-VK-PVSh	Higher school pedagogy	150	5	2		150	30	15			8	97		5			SRSIFV
1.1.4.	23-0-M-VK-PU	Management psychology	60	2	2		60	8	7			8	37		2			SRSIFV
1.1.5.	23-0-M-VK-PedPr	Teaching practice	120	4	2		120								4			SRSIFV
1.2.	Component of your choice:		450	15	2	0	450	75	75	0	16	284	9	6	0	0		
1.2.1.	23-0-M-KV-UP	Elasticity and plasticity	270	9	1		270	45	45		8	172	9					si
	23-0-M-KV-MUDDT	Mechanics of an elastic deformable solid																
1.2.2.	23-0-M-KV-SM	Strategic management	180	6	2		180	30	30			8	112		6			LMT
	23-0-M-KV-BI	Business research																
TOTAL by DB cycle:			1050	35	7	0	1050	143	157	0	48	582	18	17	0	0		
2. CYCLE OF PROFILE DISCIPLINES (PD):																		
2.1.	University component:		600	20	3		600	75	75	0	16	284	6	0	14	0		
2.1.1.	23-0-M-VK-OPNI	Organization and planning of scientific research (engl.)	180	6	1		180	30	30			8	112	6				si
2.1.2.	23-45/46-M-VK-MKEZTS	Finite element method in transport construction problems	270	9	3		270	45	45			8	172		9			si
2.1.3.	23-0-M-VK-IsPr	Research practice	150	5	3		150								5			si
2.2.	Component of your choice:		990	33	5	0	990	165	165	0	40	620	6	12	15	0		
2.2.1.	23-45/46-M-KV-UTS	Construction of transport structures	180	6	1		180	30	30		8	112	6					si
	23-45/46-M-KV-SRTS	Maintenance and repair of transport structures																
2.2.2.	23-0-M-KV-PSDeloTS	Design and estimate work in transport construction	180	6	2		180	30	30		8	112	6					si
	23-0-M-KV-PSDTS	Design and estimate documentation of transport structures																

2.2.3.	23-0-M-KV-ITTS	Innovative technologies in transport construction	180	6	2		180	30	30		8	112		6						si
	23-0-M-KV-TsIsT	Digitalization of transport infrastructure																		
2.2.4.	23-45/46-M-KV-DMTS	Diagnostics and monitoring of transport structures	270	9	3		270	45	45		8	172		9						si
	23-45/46-M-KV-OTSTS	Assessment of the technical condition of transport structures																		
2.2.5.	23-46-M-KV-UIsT	Strengthening transport infrastructure	180	6	3		180	30	30		8	112		6						si
	23-46-M-KV-KPRRTS	Integrated design solutions for the reconstruction of transport structures																		
TOTAL for the PD cycle:			1590	53	8	0	1590	240	240	0	56	904	12	12	29	0				
TOTAL FOR THE THEORETICAL COURSE OF STUDY (MSW):			2640	88	15	0	2640	383	397	0	104	1486	30	29	29	0				
3.	23-0-M-VK-NIRM	Research work of a master's student, including passing an internship and completing a master's thesis	720	24										1	16	7				si
4.	23-0-M-VK-OZMD	Preparation and defense of a master's thesis	240	8												8				si
TOTAL FOR THE ENTIRE TRAINING PERIOD:			3600	120			2640	383	397	0	104	1486	30	30	45	15				
ADDITIONAL TYPES OF TRAINING (DVE):																				
5.	Additional types of training																			

AGREED:

Vice-Rector for AD  Zharmagambetova M. S.

DAPC Director  Lipskaya M. A.

DEVELOPED BY:

Director of the TI Institute"  Chigambaev T. O.

Head of the Department "SI"  Ismagulova S. O.

8. CATALOGUE OF DISCIPLINES OF THE UNIVERSITY COMPONENT

EDUCATIONAL PROGRAM 7M07346 – TRANSPORT CONSTRUCTION

Education level: Master's degree Period of study: 2 years Admission year: 2023

Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
			in academic hours	in academic credits					
1	2	3	4	5	6	7	8	9	10
DB	VK	History and philosophy of science	150	5	1	PO2	Undergraduates are given knowledge on the history of science and private sciences, which provide an opportunity to understand the dynamics of the development of science, the philosophy of science allows us to reveal the foundations of science as a system of scientific knowledge that forms public consciousness. The methodology of science makes it possible to understand the methodological foundations and problems of modern science in order to develop a methodological culture of research work of future specialists. Active teaching methods are used, such as interactive and digital technologies, project-based teaching methods, problem-based learning technology and gamification	Disciplines of the Bachelor's degree database cycle	Final certification
DB	VK	Foreign language (professional)	120	4	1	PO2	Mastery of professional English at an advanced level (for non-linguistic areas), grammatical characteristics of scientific style in its oral and written forms, professional oral communication in monological and dialogical form according to the educational program, as well as the ability to demonstrate research results in the form of reports, abstracts, publications and public discussions; interpret and present the results of scientific research on in a foreign language. The discipline uses interactive teaching methods, case methods, role-playing games, group work	Disciplines of the Bachelor's degree database cycle	Organization and planning of scientific research (Eng.)
DB	VK	Higher school pedagogy	150	5	1	PO1	The study of the theoretical and methodological foundations of higher school pedagogy, the modern paradigm of higher education and the system of higher professional education in the Republic of Kazakhstan, didactics and the process of education in higher school, the formation of professional	Disciplines of the Bachelor's degree database cycle	Pedagogical practice

							competence and skills necessary for the implementation of full-fledged pedagogical activity. The discipline uses interactive teaching methods, such as role-playing games and group work.		
DB	VK	Management Psychology	60	2	2	PO1	It is aimed at studying the theoretical and methodological foundations of management psychology, the main socio-psychological problems of management and ways to solve them, familiarization with the methods of studying important socio-psychological characteristics of the individual and the team, professional, interpersonal and intrapersonal problems by means of management psychology. The discipline uses active teaching methods: teamwork, cluster, role-playing games, discussions, brainstorming ("brain attack"), express survey	Disciplines of the Bachelor's degree database cycle	Final certification
DB	VK	Pedagogical practice	120	4	2	PO1	Formation and development of professional knowledge in the field of the chosen Educational program, consolidation of the theoretical knowledge obtained in the disciplines of the direction and special disciplines of the master's program, mastering the necessary professional competencies in the chosen field of training	Higher school pedagogy	Final certification
PD	VK	Organization and planning of scientific research (English)	180	6	1	PO5	Formation of a system of knowledge among undergraduates about the place and role of science, about the main stages of the formation of science in Kazakhstan, about the organizational and methodological foundations of the organization of scientific research at macro, meso and micro levels, knowledge is given about the basic principles of planning, conducting, and processing the results of scientific research. Teaching methods - analysis of specific situations (case-study), group discussions	Foreign language (professional)	Research practice, Final certification
PD	VK	The finite element method in the problems of transport construction	270	9	3	PO3	Studies the basic ideas of the finite element method, types of finite elements, the construction of the element stiffness matrix, modern methods of numerical analysis, a set of software packages for solving complex engineering problems designed to study the stress-strain state, methods for solving systems of static calculation equations and equilibrium equations for dynamic problems	Elasticity and plasticity. Mechanics of an elastic deformable solid	Innovative technologies in transport construction. Digitalization of transport infrastr
PD	VK	Research practice	150	5	3	PO1-PO5, PO7-PO10	Formation and development of professional knowledge in the field of the chosen Educational program, consolidation of the theoretical knowledge obtained in the disciplines of the direction and special disciplines of the master's program, mastering the necessary professional competencies in the	Organization and planning of scientific research (Eng.)	Final certification

							chosen field of training		
		Research work of a master's student, including internship and completion of a master's thesis	720	24	2,3,4	PO1-PO10	The form of conducting a master's research work can be specified and supplemented depending on the specifics of the master's program, the topic of the master's thesis. The master's research work includes: - research work; - scientific internship; - scientific publications (participation in scientific conferences and seminars); - writing a master's thesis	Cycle of basic disciplines (DB), Cycle of profile disciplines (PD), NIRM	Final certification я
		Registration and defense of a master's thesis	240	8	4	PO1-PO10	The purpose of the final certification of a master's student is to evaluate the learning outcomes achieved upon completion of the Master's degree program	Cycle of basic disciplines (DB), Cycle of profile disciplines (PD), NIRM	Final certification
Total			2160	72					

9. CATALOG OF DISCIPLINES OF THE COMPONENT BY CHOICE

EDUCATIONAL PROGRAM 7M07346 – TRANSPORT CONSTRUCTION

Education level: Master's degree Period of study: 2 years Admission year: 2023

Cycle	Component	Name of the discipline	Total labor intensity		Term	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements
			in academic hours	in academic credits					
1	2	3	4	5	6	7	8	9	10
DB	KB	Elasticity and plasticity	270	9	1	PO6	Apply modern analytical and engineering methods for analyzing the stress-strain state of transport industry objects, as well as software packages designed to study the stress-strain state of transport structures for various purposes, analyze stresses and deformations, solve elementary two-dimensional problems in rectangular and polar coordinates and three-dimensional problems of elasticity theory using experimental methods of solutions	Probability theory and mathematical statistics, System Analysis, Research Methods, Finite Element Method in transport construction problems,	Construction of transport facilities. Diagnostics of transport structures, Inspection and testing of artificial structures, Experimental methods for assessing the technical condition of artificial structures
		Mechanics of an elastic deformable solid				PO6	Possession of modern methods and approaches in the study of elastic-plastic deformation based on general laws, on which a unified connected structure of the theory of the continuum model of matter and the basic equations of continuum mechanics is built, allows us to demonstrate solutions to the problem of elastic-plastic deformation of solids and rocks, the problem of deformation of bulk and powder, as well as composite materials	Probability theory and mathematical statistics, System Analysis, Research Methods, Finite Element Method in transport	Diagnostics of transport facilities, Comprehensive assessment of the technical condition of transport facilities, Inspection and

								construction problems,	testing of artificial structures
DB	KB	Strategic management	180	6	2	PO4	Formation of undergraduates' basic theoretical knowledge and basic practical skills in the field of strategic management of enterprises and organizations, strategic analysis of the external and internal environment of the company, the company's competitive strategy and corporate management strategy. Active teaching methods are used – the method of brainstorming, group work	Within the framework of the Bachelor's degree program	Workshop on professional foreign language, Academic writing, Strengthening the infrastructure of transport facilities, Management Psychology, Production management, Risk management
		Business Research				PO4	Mastering theory by undergraduates, as well as developing practical skills in business research and analytics, life cycle analysis of the development of promising technologies. The scientific and technical aspects of the project are being studied. Active teaching methods used in the discipline - individual task	Within the framework of the Bachelor's degree program	Workshop on professional foreign language, Academic writing, Strengthening the infrastructure of transport facilities, Management Psychology, Production management, Risk management
PD	KB	Construction of transport facilities	180	6	1	PO8	Analyze the objects of public and strategic service transport facilities by types of transport (railway, automobile, air, sea, inland water, pipeline) depending on various target functional purposes, classifications, types, technical and operational parameters, structural and technical and economic	Methods of scientific research, Finite element method in problems of transport	Research work, final certification

							solutions, studying the methods of design and calculation of transport structures under various conditions force impacts, taking into account their regional physical-geographical and natural-climatic location	construction, Theory of elasticity and plasticity, Mechanics of deformable solids	
		Maintenance and repair of transport facilities				PO8	Apply modern methods, methods and technical means of mechanization, mechanization and automation in the development of technological processes for complex complexes and certain types of work on the current maintenance and repair of transport facilities (railway, automobile, air, sea, inland water, pipeline), taking into account their technical, technological and operational characteristics and feasibility study of capital investments and operating costs	Methods of scientific research, Finite element method in problems of transport construction, Theory of elasticity and plasticity, Mechanics of deformable solids	Research work, final certification
PD	KB	Design and estimate business in transport constructio	180	6	2	PO5	Studies the functional and operational requirements of transport construction, the requirements of regulatory and legislative acts and documents, design output data, the procedure for developing, forming and making design decisions, evaluating the quality of design decisions and the development of design estimates with design estimates, general information about design and survey work and estimates of transport construction	Methods of scientific research, Finite element method in problems of transport construction, Theory of elasticity and plasticity, Mechanics of deformable solids	Construction of transport facilities in special conditions, Maintenance and repair of transport facilities, Strengthening of infrastructure of transport facilities.
		Design and estimate documentation of transport facilities				PO5	Studies the preparation of a set of documents that reveal the essence of the project and contain the rationale for its feasibility and further implementation, carried out to ensure the reliability and durability of transport structures, using the theoretical foundations of compaction of the roadbed and normalization of the degree of compaction, the main provisions on methods and means to ensure the	Methods of scientific research, Finite element method in problems of transport construction, Theory of	Construction of transport facilities, Construction of transport facilities in special conditions,

							required degree of compaction of transport structures	elasticity and plasticity, Mechanics of deformable solids	Maintenance and repair of transport facilities, Strengthening of infrastructure of transport facilities.
PD	KB	Innovative technologies in transport construction	180	6	2	PO10	The study of the essence, principles and directions of digital activity of organizations (enterprises). Information policy of the Republic of Kazakhstan. State management of digital development. Legislative regulation in the field of digital technologies in the Republic of Kazakhstan. Information security. Principles of construction of digital measuring devices. Digital technologies used in the transport industries of the Republic of Kazakhstan, types of information and analytical automated systems for operational activity management	Methods of scientific research, Finite element method in problems of transport construction, Theory of elasticity and plasticity, Mechanics of deformable solids	Construction of transport facilities, Construction of transport facilities in special conditions, Maintenance and repair of transport facilities, Strengthening of infrastructure of transport facilities
		Digitalization of transport infrastructure					PO10	The purpose of mastering the discipline is the formation of theoretical knowledge in the field of digital technologies used in production, as well as familiarization with the main trends in the development of production due to the introduction of digital technologies, the study of the principles of operation of the main components of digital systems, the acquisition of theoretical knowledge in the development and implementation of digital transformation strategies of production activities	Methods of scientific research, Finite element method in problems of transport construction, Theory of elasticity and plasticity, Mechanics of deformable solids
PD	KB	Diagnostics	270	9	3	PO9	To assess the logical correspondence between the	Bachelor's degree	

		and monitoring of transport facilities					various requirements of regulatory literature in the diagnosis and monitoring of transport facilities (calculation of load capacity, load and impact, bearing capacity, deformations and displacements, technical and economic indicators, development of survey and test programs, proposals and measures for effective and safe diagnostic methods) to make the most optimal decisions on the assessment and their technical condition	disciplines	Final certification
		Assessment of the technical condition of transport facilities				PO9	Apply the skills of assessing the technical condition of transport structures based on the results of surveys, the development of methodological materials, proposals and measures for an effective and safe method of assessing the technical condition of transport structures, the fundamental methods and methods of surveys and tests of transport structures necessary to solve practical problems of assessment and their technical condition	Bachelor's degree disciplines	Final certification
PD	KB	Strengthening of transport infrastructure	180	6	3	PO7	Apply the skills of analyzing the technical compliance of transport infrastructure parameters with industry standards, technical equipment, methods of their operation, changing the category of structures to solve special tasks for the selection of new technical parameters and conditions for the modernization of transport by assigning and justifying the stages of improving technical and economic indicators with continuous operation of facilities and increasing loads	Strategic Management, Business Research, Scientific Research Methods, Finite Element Method in transport construction tasks	Construction of transport facilities, Construction of transport facilities in special conditions, Production management, Risk management
		Comprehensive design solutions for the reconstruction of transport facilities				PO7	To assess the technical condition, equipment of transport facilities (the state of constant parameters, their compliance with design standards, operational indicators) to solve problems of changing parameters, while preparing complex design solutions for the infrastructure as a whole that meet the requirements of increasing the throughput and carrying capacity of optimal terms, volumes of operational and economic measures for the reconstruction of transport facilities	Strategic Management, Business Research, Methods of scientific research, the finite element method in problems of transport	Construction of transport facilities, Construction of transport facilities in special conditions, Production management, Risk

									construction	management
Total			1440	48						

ЭКСПЕРТНОЕ ЗАКЛЮЧЕНИЕ

на образовательную программу:
7М07346 – Транспортное строительство.
Уровень подготовки: **Магистратура научная и педагогическая**

Реализация образовательной программы «**7М07346 – Транспортное строительство**», разработанная в Академии Логистики и Транспорта им. М.Тынышпаева (АЛит), осуществляется посредством последовательности изучаемых дисциплин, с установлением конкретных задач и целевых индикаторов. Четко прослеживается междисциплинарное взаимодействие, которое заключается в комплексной связи между содержанием отдельных учебных дисциплин, посредством которых достигается внутреннее единство программы подготовки специалистов.

В учебном плане образовательной программы определен перечень всех учебных дисциплин обязательного компонента и компонента по выбору, трудоемкость каждой учебной дисциплины в кредитах, последовательность их изучения, виды учебных занятий и формы контроля. Актуально изучение вопросов экологической обстановки и обеспечение условий безопасной трудовой деятельности на предприятиях транспортного строительства.

Образовательные траектории разработаны в соответствии с запросами транспортно-коммуникационной отрасли транспортного строительства

Цель образовательной программы актуальна, сформулирована достаточно лаконично и объединяет в себе результаты обучения. В описании дисциплин отражены их цели и содержание, как индикатора достижения результатов обучения по данной образовательной программе. Также, в образовательной программе, разработанной на основе профессионального стандарта, отражены основные трудовые функции в компетенциях и результатах обучения, указаны виды связей с работодателями: проведение гостевых лекций, лекций ведущих топ менеджеров, наличие филиалов кафедр на базе организаций.

Таким образом, представленная на экспертизу образовательная программа «**7М07346 – Транспортное строительство**» по уровню подготовки кадров «**Магистратура научная и педагогическая**», полностью соответствует требованиям ГОСО, имеет четкую последовательность при разработке, отвечает современным запросам рынка труда, профессиональным стандартам и может быть рекомендована для подготовки кадров по образовательной программе «**7М07346 – Транспортное строительство**» по уровню подготовки: **Магистратура научная и педагогическая.**

Эксперт:

Зам. директор ТОО «GEO TRAC»



Масанов Т.К.

Рецензия

на образовательную программу 7М07346 – Транспортное строительство
по уровню подготовки: Магистратура научная и педагогическая

Образовательная программа 7М07346 – Транспортное строительство, разработанная в Академии Логистики и Транспорта им. М.Тынышпаева (АЛТ), содержит следующую информацию: квалификация магистранта, форма и срок обучения, направление и характеристика деятельности магистрантов, приведен полный перечень компетенций, которыми должен обладать магистрант в результате освоения данной образовательной программы.

Дисциплины учебного плана по рецензируемой образовательной программе формируют весь необходимый перечень общекультурных и профессиональных компетенций, предусмотренных ГОСО по соответствующим видам деятельности.

В учебном плане образовательной программы определен перечень всех учебных дисциплин обязательного компонента и компонента по выбору, трудоемкость каждой учебной дисциплины в кредитах, последовательность их изучения, виды учебных занятий и формы контроля. Каталог элективных дисциплин, каталог внутривузовского компонента полностью отражают предметность дисциплин образовательной программы.

Соблюдена последовательность изучения дисциплин, включены дисциплины необходимые для транспортного строительства и технологических процессов.

Содержание рабочих программ учебных дисциплин и практик позволяет сделать вывод, что оно соответствует компетентностной модели выпускника.

Образовательная программа предусматривает профессионально-практическую подготовку магистрантов в виде практики. Содержание программ практик свидетельствует об их способности сформировать практические навыки обучающихся магистрантов.

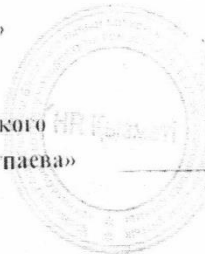
Для разработки образовательной программы были привлечены опытный профессорско-преподавательский состав, ведущие представители работодателя, магистранты, учтены их требования при формировании дисциплин профессионального цикла.

Заключение:

В целом, рецензируемая образовательная программа 7М07346 – Транспортное строительство отвечает основным требованиям ГОСО, национальной рамке квалификаций, отраслевой рамке квалификаций, профессиональных стандартов, атласу новых профессий и способствует формированию общекультурных и профессиональных компетенций по уровню подготовки: «Магистратура научная и педагогическая»

Рецензент:

Профессор кафедры «СИСМ»
доктор технических наук,
«Казахского национального
исследовательского технического
университета имени К.И. Сатпаева»



Шаяхметов С.Б.

**Рекомендательное
письмо от работодателя ТОО «GEO TRACK»**

Уважаемая Салтанат Нурадиловна!

Руководство ТОО «GEO TRACK» в лице Нусупова Джетыбай Кожабековича ознакомилось с содержанием образовательной программы «7M07346 – Транспортное строительство» по уровню подготовки: «Магистратура научная и педагогическая», разработанная в Академии Логистики и транспорта им. М. Тынышпаева и внесло следующие рекомендации:

- включить в содержание образовательной программы дисциплины:
 - IT технологиями,
 - увеличить количество часов, выделяемых на проведение части практических занятий на базах работодателей с целью формирования определенных видов профессиональных компетенций;
 - актуализировать содержание образовательных программ путем включения в цикл базовых и профилирующих модулей дисциплины, отражающие современные инновационные технологии в транспортно-коммуникационной сфере.
 - увеличить количество часов, выделяемых на проведение производственных практик;
- включить дисциплины:
- с IT компетенциями;
 - касающиеся организации производства и охраны труда;
 - экономического и управленческого характера;
 - с программным обеспечением;

Работодатель:

К.т.н., Директор ТОО «GEO TRACK»



Нусупов Д.К.

13. PROTOCOLS OF REVIEW AND APPROVAL

Академия логистики и транспорта

ПРОТОКОЛ №6 (начало формирования ОП)

Заседания

Академического комитета по образовательной программе и ведущих преподавателей кафедры «Строительная инженерия»

г. Алматы

«15»_03_2023 г.

Председатель: Исмагулова С.О.

Секретарь: Жадраев Р.Ж.

Присутствовали: члены Академического комитета, ведущие ППС кафедры К.т.н., Директор ТОО «GEO TRACK» Нусупов Д.К. Зам.начальник ТОО «GEO TRACK» Масанов Т.К., В.Н.С., профессор КаздорНИИ Шалкарпов А.А

Обучающиеся: Магистрант 2-го курса, группа МН-ИТИ-21-1 Қонысбай А.Д.

ПОВЕСТКА ДНЯ:

3. Рассмотрение компетентностной модели выпускника

4. Рассмотрение возможности включения дисциплин в КЭД и РУП

По первому вопросу

ВЫСТУПИЛ(а):

Зав. кафедрой Исмагулова С.О. предложила рассмотреть компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура.

Компетентностная модель выпускника включает в себя следующие части:

- Цель и задачи образовательной программы;
- Результаты обучения;
- Область, объекты, виды и функции профессиональной деятельности;
- Перечень должностей по образовательной программе;
- Профессиональные сертификаты, полученные по окончании обучения;
- Требования к предшествующему уровню образования.

ВЫСТУПИЛ: Директор ТОО «GEO TRACK» Нусупов Д.К., который предложил в силу специфики их организации отразить в объектах профессиональной деятельности следующее: Современные инновационные технологии в транспортно-коммуникационной сфере.

ВЫСТУПИЛ: Член кафедры Квашнин М.Я., который предложил утвердить.

После рассмотрения компетентностной модели выпускника было предложено утвердить данную Модель по 3 уровням образования.

ПОСТАНОВИЛИ:

- предоставить компетентностную модель выпускника по 3 уровням образования: бакалавриат, магистратура, докторантура для рассмотрения и утверждения на Совете института «Транспортная инженерия».

По второму вопросу

ВЫСТУПИЛ(а): зав кафедрой Исмагулова С.О. с предложением заслушать представителей работодателей и обучающихся по включению новых дисциплин в КЭД и РУП приема 2023г.

ВЫСТУПИЛ В.Н.С., профессор КаздорНИИ Шалкарров А.А: Организации заинтересованы в специалистах, имеющих хороший уровень подготовки и знаний в области проектирования и строительство мостов, тоннелей и метрополитенов. Вносим предложения о внесении в РУП следующих востребованных дисциплин: Техническая диагностика транспортных сооружений. Усиление инфраструктуры линейных сооружений. Инновационные технологии в транспортном строительстве.

ВЫСТУПИЛ: Магистрант 2-го курса, группа МН-ИТИ-21-1 Қонысбай А.Д.

Считаем необходимым включить в РУП следующие дисциплины: Транспортное строительство и Транспортные сооружения

ПОСТАНОВИЛИ:

1. Информацию принять к сведению;

2. Учесть предложения и рекомендации работодателей и обучающихся:

Рассмотреть включение в РУП следующие дисциплины: Транспортное строительство, Транспортные сооружения, Техническая диагностика транспортных сооружений, Усиление инфраструктуры линейных сооружений, Инновационные технологии в транспортном строительстве.

Председатель:



Исмагулова С.О.

Секретарь:



Жадраев Р.Ж.

Академия логистики и транспорта

ПРОТОКОЛ №7 (перед утверждением ОП на УС)

Заседания КОК УМБ института «Транспортная инженерия»

г. Алматы

«15» 03 2023 г.

Председатель: Чигамбаев Т.О.
Секретарь: Утепова А.

Присутствовали: члены КОК УМБ, члены Академического комитета
Представители с производства: К.т.н., Директор ТОО «GEO TRACK» Нусупов Д.К. Зам.начальник ТОО «GEO TRACK» Масанов Т.К., В.Н.С., профессор КаздорНИИ Шалкаров А.А

Обучающиеся: Магистрант 2-го курса, группа МН-ИТИ-21-1 Қонысбай А.Д.

ПОВЕСТКА ДНЯ:

1. Рассмотрение Каталога элективных дисциплин (КЭД), Рабочей учебной программы (РУП), паспорта образовательных программ бакалавриата, магистратуры и докторантуры.

ВЫСТУПИЛ(а): зав. кафедрой Исмагулова С.О. представил (а) на рассмотрение КЭД, РУП бакалавриата, магистратуры и докторантуры.

На кафедре «Строительная инженерия» было проведено заседание с привлечением представителей работодателей и обучающихся по обсуждению структуры и содержанию образовательной программы 7М07346 – Транспортное строительство

Представителями работодателей и обучающимися были предложены ряд новых актуальных дисциплин, которые кафедра одобрила и включила в новые КЭД и РУП.

ПОСТАНОВИЛИ:

1. Информацию принять к сведению;
2. Учесть все предложения и рекомендации работодателей, представителей студенческого актива;
3. Представить КЭД, РУП и ОП бакалавриата, магистратуры и докторантуры для рассмотрения и утверждения на Совете института, УС Академии.

Председатель КОК УМБ:



Чигамбаев Т.О.

Секретарь:



Утепова А.

15. CHANGE REGISTRATION SHEET

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				Date	Surname and initials, signature, position