

AGREED

Chief Engineer of the project,
LLP «Kazakh Promtransproject»
Musaev M.T.

«17» 03 2025 y.

**APPROVING**

Director of the Institute
«Transport and Construction»
Abdreshov S.A.

«19» 03 2025 y.

CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT**EDUCATIONAL PROGRAM 8D07165 Transport facilities****Education level: PhD****Duration: 3 year****Admission year: 2025 y.**

№	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 loans					
1	2	3	4	5	6	7	8	9	10	11
1	BD	UC	Academic writing	120	4	1	LO1	The objectives of the discipline are: mastering the structural features and requirements for the design of academic and scientific texts. Improve the skills of abstracting and concise presentation of information, writing a bibliographic review. The ability to report scientific achievements to the general public and write scientific articles for publication in international publications..	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final certification
2	BD	UC	Research methods	180	6	1	LO2 LO3 LO4	The discipline studies theoretical and applied methods of scientific research of problems in the field of transport science, forms deep ideas about the content of scientific activity, its methods and forms of knowledge. Specific learning objectives, theories and approaches to the analysis of processes and phenomena are formulated; integrated knowledge obtained within the framework of this discipline to solve research problems in new conditions	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final certification

3	PD	UC	Fundamentals of scientific experiments	150	5	1	LO2 LO3 LO4	<p>It consists of modules: mathematical modeling and mathematical planning of experiments; analysis of experimental data and experimental results; statistical processing of experimental results. The methods of evaluating the production of empirical mathematical models, assessing their adequacy, the basics of the theory of error and statistical processing of experimental data in the design of transport equipment, the processing of experimental results using various mathematical methods and computer technology are studied.</p>	Disciplines of the cycle of basic master's degree courses	Research practice, Research work of the doctor, Final certification
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Head of the department «Architectural and construction Engineering»

Kulmanov K.S.