



MAJOR CURRICULUM for 2021-2022 academic year admission

Educational program 7M07108 - "Transport, transport technique and technologies"

Group of Educational programs M104 - "Transport, transport technique and technologies"

Full-time study

Study duration: 2 years

Academic degree: master of technical sciences

year of study	Code	Name of course	Cycle	1 semester					2 semester									
				Total Credits	Total hours	lec/lab/pr	IWS (including IWSI), in hours	pre-requisites	Total Credits	Total hours	lec/lab/pr	IWS (including IWSI), in hours	pre-requisites					
1	LNG210	English language (professional)	BD IC	5	150	0/0/3	105											
	HUM208	Psychology of management	BD IC	3	90	1/0/1	60											
	TRA203	Modern problems of transport science, engineering and technology	BD IC	5	150	2/0/1	105											
	TRA258		Quality management of machines and technological processes					BD IC	150	2/0/1	105							
	TRA239	Research methodology	BD IC	5	150	2/0/1	105											
	TRA259	Fundamentals of engineering creativity	BD IC					150	2/0/1	105								
	MCH290	Ensuring reliability in the process of the life cycle of machines	PD OC/IC	5	150	2/0/1	105											
	TRA260	Methods of creating innovations in technology	PD OC/IC	5	150	2/0/1	105											
	AAP242	Scientific research work of master's	MSSR	6														
	In total				34													
2	3 semester				4 semester													
	TRA207	Automation systems for road transport	PD OC	5	150	2/0/1	105											
	TRA265	Ecotransport	PD OC	5	150	2/0/1	105											
	TRA266	Computer technologies in science and production																
	TRA267	Methods of evaluation and testing of operational properties of road vehicles	PD OC	5	150	2/0/1	105											
	TRA268	Innovative methods of machine repair and maintenance	PD OC	5	150	2/0/1	105											
	TRA269	Environmentally friendly ways to restore machine parts																
	TRA270	New technological methods and materials in transport equipment	PD OC	5	150	2/0/1	105											
	TRA271	Application of polymer composite materials in the production and repair of transport equipment																
	TRA272	Application of polymer composite materials in the production and repair of transport equipment	PD OC	5	150	2/0/1	105											
TRA217	Technical means of the transport system																	
AAP242	Scientific research work of master's	MSSR	6															
In total				31														
In total																		

The decision of the Academic Council of the Kazakh National Technical University named after K.I. Satpayev. Protocol № 3 of the 25.06.2021

Decision of the Academic and Methodological Council of the Kazakh National Technical University named after K.I. Satpayev. Protocol № 6 of the 14.06.2021

The decision of the Academic Council of the Institute of Metallurgy and Industrial Engineering. Protocol № 16 of the 07.06.2021.

Vice-Rector for Academic Affairs

B.A. Zhautikov

Director of the Institute of Metallurgy and Industrial Engineering

K.B. Rysbekov

Head of Department of technological machines, transport and logistics

K.K. Yelemessov

Number of credits for the whole period of study	
Cycles of disciplines	Credits
A cycle of basic disciplines (BD IC, BD OC)	35
A cycle of profile disciplines (PD IC, PS OC)	52
All on the theoretical classes:	87
MSSR	24
Registration and defense of the master's thesis (RaDMT)	12
In all:	123