



MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
Kazakh National Technical University named after K.I. Satpayev



TRAINING PLAN educational program for the recruitment for 2021-2022
Educational program 6B07108 - "Transport Engineering"
Group of Educational programs B065 - "Motor vehicles"

Full-time study

Study duration : 4 years

Academic degree: Bachelor of Engineering and Technology

Year of study	Code	Name of disciplines	Cycle	Total Credits	Total hours	lec/lab/pr	IWS (including IWSI), in hours	Code	pre-requisites
1 semester (autumn 2021)									
1	LNG108	English	G	5	150	0/0/3	105		Diagnostician. Test
	LNG104	Kazakh (Russian) language	G	5	150	0/0/3	105		Diagnostician. Test
	HUM100	Modern history of Kazakhstan	G	5	150	1/0/2	105		
	PHY111	Physics I	B	5	150	1/1/1	105		
	MAT101	Mathematics I	B	5	150	1/0/2	105		
	GEN177	Engineering and computer graphics	B	5	150	1/0/2	105		
	HUM128	Political science	G	2	60	1/0/0	45		
KFK101	Physical education I	G	2	60	0/0/2	30			
Total:				34		21			
2 semester (spring 2022)									
1	LNG108	English	G	5	150	0/0/3	105		
	LNG104	Kazakh (Russian) language	G	5	150	0/0/3	105		
	GEN412	The theoretical mechanics	B	5	150	2/0/1	105		
	PHY112	Physics II	B	5	150	1/1/1	105		
	MAT102	Mathematics II	B	5	150	1/0/2	105		
	CHE495	Chemistry	B	5	150	1/1/1	105		
	HUM129	Culturology	G	2	60	1/0/0	45		
KFK102	Physical education II	G	2	60	0/0/2	30			
Total:				34		21			
3 semester (autumn 2022)									
2	CSE677	Information and Communication technology	G	5	150	2/1/0	105		
	CHE452	Ecology and sustainable development	G	2	60	1/0/0	45		
	TRA495	Transport and transport equipment	B	5	150	2/0/1	105		
	HUM127	Sociology	G	2	60	1/0/0	45		
	MCH104	Machine elements	B	5	150	2/0/1	105		
	TRA496	Transport materials	B	5	150	2/1/0	105		
	TRA491	Transport systems	B	5	150	2/0/1	105		
KFK103	Physical education III	G	2	60	0/0/2	30			
Total:				31		19			
4 semester (spring 2023)									
2	HUM132	Философия	G	5	150	1/0/2	105		
	HUM122	Психология	G	2	60	1/0/0	45		
	MNG487	Основы предпринимательства, лидерства и антикоррупционной культуры	G	3	90	1/0/1	60		
	CHE451	Безопасность жизнедеятельности	G	2	60	1/0/0	45		
	GEN408	Сопротивление материалов	B	5	150	1/1/1	105		
	TRA493	Автоматические системы наземных транспортно-технологических машин	B	5	150	2/0/1	105		
	TRA494	Транспортная логистика	B	5	150	2/0/1	105		
KFK104	Физическая культура IV	G	2	60	0/0/2	30			
Total:				29		18			
5 semester (autumn 2023)									
3	NSE143	Industrial economics	B	5	150	1/0/2	105		
	MCH167	Integrated mechanization and automation of loading and unloading operations	B	5	150	2/0/1	105		
	TRA498	Fundamentals of technical operation of ground transport and technological machines	B	5	150	2/0/1	105		
	TRA433	Road construction machines	B	5	150	2/0/1	105		
	TRA488	Theory of reliability and diagnostics of transport equipment	S	5	150	2/0/1	105		
	TRA497	Operational materials	S	5	150	2/0/1	105		
Total:				30		18			
6 semester (spring 2024)									
3	SAF110	Labor protection	B	5	150	1/0/2	105		
	TRA499	Fundamentals of technology of production and repair of ground transport and technological machines	B	5	150	2/0/1	105		
	TRA500	Power mountings of transport technique	S	5	150	1/1/1	105		
	TRA501	Lifting and transporting machines	S	5	150	2/0/1	105		
	3221	ELECTIVE	B	5	150	2/0/1	105		
	3222	ELECTIVE	B	5	150	2/0/1	105		
Total:				30		18			
7 semester (autumn 2024)									
4	4305	ELECTIVE	S	5	150	2/0/1	105		
	4306	ELECTIVE	S	5	150	2/0/1	105		
	4307	ELECTIVE	S	5	150	2/0/1	105		
	4308	ELECTIVE	S	5	150	2/0/1	105		
	4309	ELECTIVE	S	5	150	2/0/1	105		
Total:				25		15			
8 semester (spring 2025)									
4	4310	ELECTIVE	S	5	150	2/0/1	105		
	4311	ELECTIVE	S	5	150	2/0/1	105		
	ECA003	Preparation and writing of the thesis (project)	FA	6					
ECA103	Graduate thesis (project) defense	FA	6						
Total:				22		6			

Year of study	Code	Name of disciplines	Cycle	Credits	Semester
Mandatory types of training with an assessment of P/NP					
1	AAP117	Training Practice	B	1	2
2	AAP102	Industrial Internship I	B	1	4
3-4	AAP176	Industrial Internship II	S	5	6
Additional types of training					
1	AAP107	Sports club sectional	O	0	3
2-3	AAP500	Military training	O	0	3-6

The number of credits for the entire period of study			
Disciplines cycles	Credits		
	mandatory	additional	Total
Cycle of general disciplines (G)	51	7	58
Cycle of basic disciplines (B)	102	10	112
Cycle of special disciplines (S)	25	35	60
Total theoretical training:			230
Extra education	12	0	12
TOTAL:			242

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 04.06.2021

The decision of the Academic Council of the Institute of Metallurgy and Industrial Engineering. Protocol № 12 of the 07.06.2021

Vice-Rector for Academic Affairs

Director of the Institute of Metallurgy and Industrial Engineering

Head of Department of technological machines, transport and logistics

Representative of the Specialty Council

(Handwritten signatures)
B.A.Zhautikov
K.B. Rysbekov
K.K. Yelemessov
M.K.Azimbekov