

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
PT 11	Applied methods of calculations on motor transport		4	C	6,0	180,0	80,0	32,0	32,0	16,0	100,0							5,0	6,0									152
PT 12	Strength of Materials	5		C	5,0	150,0	80,0	32,0	16,0	32,0	70,0									5,0	5,0							166
PT 13	Interchangeability, Standardization and Technical Measurements in Mechanical Engineering	5		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0										4,0	4,0						147
PT 14	Automated design systems by motor transport	5		CG	6,0	180,0	80,0	32,0	48,0		100,0										5,0	6,0						152
PT 15	Machine Parts		6	CG	4,0	120,0	48,0	36,0	12,0		72,0											4,0	4,0					148
PT 16	Technology of Construction Materials		6		3,0	90,0	24,0	12,0	12,0		66,0											2,0	3,0					145
PT 17	Electrical Engineering, Electronics and Microprocessor Technology	6		C	3,0	90,0	36,0	24,0	12,0		54,0											3,0	3,0					136
PT 18	Fundamentals of Occupational Safety and Health	7		C	3,0	90,0	32,0	16,0	16,0		58,0													2,0	3,0			144
PT 19	Enterprise Economy		7		3,0	90,0	32,0	16,0		16,0	58,0													2,0	3,0			201
PT 20	Applied Materials		7		3,0	90,0	32,0	16,0	16,0		58,0													2,0	3,0			143
PT	Practical Training*		6		6,0	180,0					180,0												6,0					152
PT	Pre-graduation Practice*		8		6,0	180,0					180,0																6,0	152
	Attestation*				6,0	180,0					180,0																	6,0
2	Optional educational components				57,0	1710,0	732,0	138,0	94,0	60,0	978,0									8,0	10,0	11,0	12,0	17,0	19,0	20,0	16,0	
2.1	Profile training				24,0	720,0	292,0	138,0	94,0	60,0	428,0									5,0	6,0	4,0	5,0	4,0	5,0	10,0	8,0	
2.1.1	Profiled discipline package 01 "Operation, diagnostics and repair of cars"				24,0	720,0	292,0	138,0	94,0	60,0	428,0									5,0	6,0	4,0	5,0	4,0	5,0	10,0	8,0	
OP1.1	Electrical and Electronic Equipment of Car and Diagnostics Basis		5	C	6,0	180,0	80,0	32,0	32,0	16,0	100,0										5,0	6,0						152
OP1.2	Technological Basis of Engineering		6	CG	5,0	150,0	48,0	24,0		24,0	102,0											4,0	5,0					152
OP1.3	Fundamentals of Operation and Maintenance of Car at Service Stations	7		C	5,0	150,0	64,0	32,0	32,0		86,0												4,0	5,0				152
OP1.4	Modern Mechatronic Systems on Automobile Transport	8		C	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	152
OP1.5	Diagnosis of Modern Car Systems	8		C	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	152
2.1.2	Profiled discipline package 02 "Management of the motor transport enterprise"				24,0	720,0	292,0	138,0	94,0	60,0	428,0									5,0	6,0	4,0	5,0	4,0	5,0	10,0	8,0	
OP2.1	Vehicle Management		5	C	6,0	180,0	80,0	32,0	32,0	16,0	100,0										5,0	6,0						152
OP2.2	Technological Planning of Service Stations		6	C	5,0	150,0	48,0	24,0		24,0	102,0											4,0	5,0					152
OP2.3	Technological Processes for Road Transport	7		C	5,0	150,0	64,0	32,0	32,0		86,0													4,0	5,0			152
OP2.4	Fundamentals of Technological Processes of Automobile Transport Production Organization	8		C	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	152
OP2.5	Simulation Modelling at the Enterprise	8		C	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	152
2.1.3	Profiled discipline package 03 "Mechanical engineering on motor transport"				24,0	720,0	292,0	138,0	94,0	60,0	428,0									5,0	6,0	4,0	5,0	4,0	5,0	10,0	8,0	
OP3.1	Mechanical Oscillations in Automobile Systems		5	C	6,0	180,0	80,0	32,0	32,0	16,0	100,0										5,0	6,0						152
OP3.2	Principles of Manufacturability in Car Mechanics		6	C	5,0	150,0	48,0	24,0		24,0	102,0											4,0	5,0					152
OP3.3	Planning of Automobile Operating Enterprises	7		C	5,0	150,0	64,0	32,0	32,0		86,0												4,0	5,0				152
OP3.4	Modelling Technical Systems Methods	8		C	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	152
OP3.5	Specialized Rolling Stock	8		C	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	152
2.2	Optional student disciplines of the profile preparation according to the list				22,0	660,0	308,0				352,0											4,0	4,0	10,0	10,0	10,0	8,0	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29												
2.3	Optional student disciplines from the general university catalog of disciplines				11,0	330,0	132,0				198,0									3,0	4,0	3,0	3,0	3,0	4,0															
OD1	Discipline 1		5		4,0	120,0	48,0				72,0									3,0	4,0																			
OD2	Discipline 2		6		3,0	90,0	36,0				54,0											3,0	3,0																	
OD3	Discipline 3		7		4,0	120,0	48,0				72,0													3,0	4,0															
Total for education period					240,0	7200,0	3044,0				4156,0	28,0	30,0	27,0	30,0	26,0	30,0	27,0	30,0	27,0	30,0	22,0	30,0	25,0	30,0	22,0	30,0													
Hours per week												28,0	27,0	26,0	27,0	27,0	22,0	25,0	22,0																					
Number of exams																																								
Number of tests																																								
Number of course projects (works)																																								
Numbers of disciplines per semester												8	9	7	7	7	6	6	3																					

Individual tasks	
C	Calculated task
CG	Calculated and graphic task
R	Report
CP	Course project
CW	Course work

Approved by the Academic Council of NTU "KhPI"
 PROTOCOL № 5 from 28.05.2021

Vice-rector of Scientific-and-Pedagogical Work

 Signature Full name
 G. Khrypunov

Head of the educational program Motor vehicles and motor car industry

 Signature Full name
 A. Kozhushko

Director of the Educational-scientific Institute of Mechanical Engineering and Transport

name of the Institute

 Signature Full name
 V. Iepifanov

Acting head of the Department of Car and Tractor Industry

name of department

 Signature Full name
 Ye.Pelypenko

* Practices and attestations are carried out by graduating

CONTENT of CURRICULUM

for the training of the first (bachelor) level:
by specialty

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Automobile transport

Number in order	Discipline title	Total amount				Department code
		ECTS credits	Hours	Semester		
				Exam	Test	
1	2	3	4	5	6	7
1	Obligatory educational components	183,0	5490,0			76,25%
1.1	General training	78,0	2340,0			42,62%
GT 1	History and Culture of Ukraine	4,0	120,0	2		310
GT 2	Philosophy	3,0	90,0	3		307
GT 3	Jurisprudence	3,0	90,0		4	306
GT 4	History of Science and Technology	3,0	90,0		2	310
GT 5	Ukrainian as a foreign language	10,0	300,0	4	1,2,3	273
GT 6	Vocational Language	5,0	150,0	2	1	273
GT 7	Foreign Language	8,0	240,0		5,6,7,8	275
GT 8	Higher Mathematics p.1	6,0	180,0	1		170
	Higher Mathematics p.2	6,0	180,0	2		170
	Higher Mathematics p.3	4,0	120,0	3		170
	Higher Mathematics p.4	3,0	90,0	4		170
GT 9	Physics p.1	5,0	150,0	1		168
	Physics p.2	4,0	120,0	2		168
	Physics p.3	3,0	90,0	3		168
GT 10	Chemistry	4,0	120,0	2		192
GT 11	Ecology	3,0	90,0		2	144
GT	Physical education	4,0	120,0		1 - 2	302
1.2	Professional training	105,0	3150,0			57,38%
PT 1	Descriptive Geometry, Engineering and Computer Graphics	4,0	120,0	1		163
PT 2	Educational Practice "Introduction to Profession"	3,0	90,0		1	152
PT 3	Modern information technologies in motor transport	5,0	150,0	1		152
PT 4	Theoretical Mechanics	5,0	150,0	3		169
PT 5	Design of Cars and Tractors and their Analysis p.1	6,0	180,0	3		152
PT 6	Hydraulics, hydraulic and pneumatic actuators of the cars	5,0	150,0	3		152
PT 7	Theory of Mechanisms and Machines, p.1	4,0	120,0		4	151
PT 8	Theory of Mechanisms and Machines, p.2	3,0	90,0	5		151
PT 9	Design of Cars and Tractors and their Analysis p.2	6,0	180,0	4		152
PT 10	Engines, Fuel and Lubricating Materials	6,0	180,0	4		152
PT 11	Applied methods of calculations on motor transport	6,0	180,0		4	152
PT 12	Strength of Materials	5,0	150,0	5		166
PT 13	Interchangeability, Standardization and Technical Measurements in Mechanical Engineering	4,0	120,0	5		147
PT 14	Automated design systems by motor transport	6,0	180,0	5		152
PT 15	Machine Parts	4,0	120,0		6	148
PT 16	Technology of Construction Materials	3,0	90,0		6	145
PT 17	Electrical Engineering, Electronics and Microprocessor Technology	3,0	90,0	6		136
PT 18	Fundamentals of Occupational Safety and Health	3,0	90,0	7		144
PT 19	Enterprise Economy	3,0	90,0		7	201
PT 20	Applied Materials	3,0	90,0		7	143
PT	Practical Training*	6,0	180,0		6	152
PT	Pre-graduation Practice*	6,0	180,0		8	152
	Attestation*	6,0	180,0			
2	Optional educational components	57,0	1710,0			23,75%
2.1	Profile training	24,0	720,0			42,11%
2.1.1	Profiled discipline package 01 "Operation, diagnostics and repair of cars"	24,0	720,0			
OP1.1	Electrical and Electronic Equipment of Car and Diagnostics Basis	6,0	180,0		5	152
OP1.2	Technological Basis of Engineering	5,0	150,0		6	152
OP1.3	Fundamentals of Operation and Maintenance of Car at Service Stations	5,0	150,0	7		152
OP1.4	Modern Mechatronic Systems on Automobile Transport	3,5	105,0	8		152
OP1.5	Diagnosis of Modern Car Systems	4,5	135,0	8		152
2.1.2	Profiled discipline package 02 "Management of the motor transport enterprise"	24,0	720,0			
OP2.1	Vehicle Management	6,0	180,0		5	152
OP2.2	Technological Planning of Service Stations	5,0	150,0		6	152
OP2.3	Technological Processes for Road Transport	5,0	150,0	7		152
OP2.4	Fundamentals of Technological Processes of Automobile Transport Production Organization	3,5	105,0	8		152
OP2.5	Simulation Modelling at the Enterprise	4,5	135,0	8		152
2.1.3	Profiled discipline package 03 "Mechanical engineering on motor transport"	24,0	720,0			
OP3.1	Mechanical Oscillations in Automobile Systems	6,0	180,0		5	152
OP3.2	Principles of Manufacturability in Car Mechanics	5,0	150,0		6	152
OP3.3	Planning of Automobile Operating Enterprises	5,0	150,0	7		152
OP3.4	Modelling Technical Systems Methods	3,5	105,0	8		152
OP3.5	Specialized Rolling Stock	4,5	135,0	8		152
2.2	Optional student disciplines of the profile preparation according to the list	22,0	660,0			38,6%
2.3	Optional student disciplines from the general university catalog of disciplines	11,0	330,0			19,3%
OD1	Discipline 1	4,0	120,0		5	
OD2	Discipline 2	3,0	90,0		6	
OD3	Discipline 3	4,0	120,0		7	
	Total for education period	240,0	7200,0			