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MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
NATIONAL TECHNICAL UNIVERSITY "KHARKIV POLYTECHNIC INSTITUTE"

CURRICULUM

APPROVED BY

Rector of NTU "KhPI" **for the training** **The First (Bachelor) Level** (higher education level) **in the field of knowledge -** **27 Transport** (Knowledge field code and title)

_____ **Ye.Sokol** **by specialty** **- 274 Automobile transport** **Qualification:** **Bachelor of automobile transport**

"___"_____ 2019 **Period of study** **4 years**

on the basis of: **complete secondary education for foreign students**

Form of Training **full-time**

I. Education process schedule

Course	September				October				November					December				January					February				March				April				May					June				July					August				
	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	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
I																	T	V	E	E	E	V																	T	E	E	E	V	V	V	V	V	V	V	V	V	V
II																	T	V	E	E	E	V																	T	E	E	E	V	V	V	V	V	V	V	V	V	V
III																	T	V	E	E	E	V																	T	E	E	E	V	V	V	V	V	V	V	V	V	V
IV																	T	V	E	E	E	V											E	E	P	P	P	P	D	D	A	A										

Legend: Theoretical study; **E** Exam Session; **P** Practice; **D** Diploma project; **T** Test week; **V** Vacation; **A** Attestation

II. Consolidated budget time (in weeks)

Course	Theoretical study	Exam Session	Practice	Attestation	Implementa-tion of the graduation project (work)	Vacation	Total
I	32	8				12	52
II	32	8				12	52
III	32	8				12	52
IV	26	6	4	2	2	2	42
Total	122	30	4	2	2	38	198

III. Practice

Type of practice	Duration (in weeks)	Semester
Pre-graduation	4	8

IV. Attestation

Measures	Number of ECTS credits	Semester
1. Diploma projects	3,0	8
2. Forms of attestation - graduation project defense - examinations	3,0	8

V. EDUCATION PROCESS PLAN

Code in accordance with the EPP	Name of academic discipline	Semester distribution			Number of ECTS credits	Number of hours						Distribution of classroom hours per a week and ECTS credits per a semester																Department
							Classroom					I course				II course				III course				IV course				
								including				Semesters																
												1		2		3		4		5		6		7		8		
												Number of weeks in the semester																
												20		20		20		20		20		20		20		20		
		Exams	Tests	Individual tasks		Total amount	Total	Lectures	Laboratory work	Practical studies	Independent work	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	Classroom hours	ECTS credits	
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
1	**General training**				**78,0**	**2340,0**	**#####**	**304,0**	**96,0**	**756,0**	**1184,0**	**17,0**	**18,0**	**26,0**	**27,0**	**13,0**	**14,0**	**7,0**	**8,0**	**4,0**	**5,0**	**2,0**	**2,0**	**2,0**	**2,0**	**2,0**	**2,0**	
GT 1	**History and Culture of Ukraine**	2		R	4,0	120,0	64,0	32,0		32,0	56,0			4,0	4,0													**310**
GT 2	**Vocational Language**	2	1		10,0	300,0	128,0			128,0	172,0	4,0	5,0	4,0	5,0													**273**
GT 3	**Foreing Language**	2,3,7,8			8,0	240,0	116,0			116,0	124,0			2,0	2,0	2,0	2,0							2,0	2,0	2,0	2,0	**275**
GT 4	**Ukrainian as a foreign language**	5	3,4		9,0	270,0	96,0			96,0	174,0					2,0	3,0	2,0	3,0	2,0	3,0							**273**
GT 5	**Higher Mathematics p.1**	1		C	6,0	180,0	96,0	48,0		48,0	84,0	6,0	6,0															**170**
	Higher Mathematics p.2	2		C	6,0	180,0	96,0	48,0		48,0	84,0			6,0	6,0													**170**
	Higher Mathematics p.3	3		C	4,0	120,0	64,0	32,0		32,0	56,0					4,0	4,0											**170**
	Higher Mathematics p.4	4		C	3,0	90,0	48,0	16,0		32,0	42,0							3,0	3,0									**170**
GT 6	**Physics p.1**	1		C	5,0	150,0	80,0	32,0	32,0	16,0	70,0	5,0	5,0															**168**
GT 7	**Physics p.2**	2		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0			4,0	4,0													**168**
GT 8	**Physics p.3**	3		C	3,0	90,0	48,0	32,0	16,0		42,0					3,0	3,0											**168**
GT 9	**Chemistry**	2		C	4,0	120,0	64,0	32,0	32,0		56,0			4,0	4,0													**192**
GT	Physical Education		1 - 6		12,0	360,0	192,0			192,0	168,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0					**302**
2	**Professional training**				**57,0**	**1710,0**	**848,0**	**464,0**	**176,0**	**208,0**	**862,0**	**4,0**	**4,0**			**5,0**	**5,0**	**10,0**	**10,0**	**15,0**	**15,0**	**13,0**	**14,0**	**6,0**	**9,0**			
PT 1	**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 2	**Enterprise Economy**		7		3,0	90,0	32,0	16,0		16,0	58,0													2,0	3,0			**201**
PT 3	**Descriptive Geometry, Engineering and Computer Graphics**	1		CG	4,0	120,0	64,0	32,0		32,0	56,0	4,0	4,0															**163**
				CG																								
PT 4	**Theoretical Mechanics, p.1**	3		C	5,0	150,0	80,0	64,0		16,0	70,0					5,0	5,0											**169**
	Theoretical Mechanics, p.2		4	CG	2,0	60,0	32,0	16,0		16,0	28,0							2,0	2,0									**169**
PT 5	**Heat Engineering**	4		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0							4,0	4,0									**123**
PT 6	**Theory of Mechanisms and Machines, p.1**		4	C	4,0	120,0	64,0	32,0	16,0	16,0	56,0							4,0	4,0									**151**
	Theory of Mechanisms and Machines, p.2	5		CP	3,0	90,0	48,0	32,0		16,0	42,0									3,0	3,0							**151**
PT 7	**Strength of Materials, p.1**	5		C	5,0	150,0	80,0	32,0	16,0	32,0	70,0									5,0	5,0							**166**
	Strength of Materials, p.2	6		C	3,0	90,0	48,0	16,0	16,0	16,0	42,0											3,0	3,0					**166**
PT 8	**Machine Parts, p.1**		5	CG	3,0	90,0	48,0	32,0	16,0		42,0									3,0	3,0							**148**
	Machine Parts, p.2	6		CP	4,0	120,0	64,0	48,0	16,0		56,0											4,0	4,0					**148**
PT 9	**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**

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 10	**Applied Materials**		7		3,0	90,0	32,0	16,0	16,0		58,0													2,0	3,0			**143**
PT 11	**Electrical Engineering, Electronics and Microprocessor Technology**	6		C	4,0	120,0	64,0	32,0	16,0	16,0	56,0											4,0	4,0					**136**
PT 12	**Technology of Construction Materials**		6		3,0	90,0	32,0	16,0	16,0		58,0											2,0	3,0					**145**
3	**Optional disciplines**				**105,0**	**3150,0**	**#####**	**580,0**	**348,0**	**232,0**	**1894,0**	**8,0**	**8,0**	**3,0**	**3,0**	**10,0**	**11,0**	**11,0**	**12,0**	**7,0**	**10,0**	**11,0**	**14,0**	**16,0**	**19,0**	**20,0**	**28,0**	
3.1	**Optional Disciplines in blocks**				93,0	2790,0	#####	580,0	348,0	232,0	1630,0	8,0	8,0	3,0	3,0	10,0	11,0	11,0	12,0	5,0	6,0	9,0	10,0	14,0	15,0	20,0	28,0	
3.1.1	**Discipline block 01 "BCars and car management"**				**93,0**	**2790,0**	**#####**	**580,0**	**348,0**	**232,0**	**1630,0**	**8,0**	**8,0**	**3,0**	**3,0**	**10,0**	**11,0**	**11,0**	**12,0**	**5,0**	**6,0**	**9,0**	**10,0**	**14,0**	**15,0**	**20,0**	**28,0**	
OB1.1	**Introduction to Speciality**		1	R	3,0	90,0	48,0	32,0		16,0	42,0	3,0	3,0															**152**
OB1.2	**Modern information technologies in motor transport**	1		CG	5,0	150,0	80,0	32,0	32,0	16,0	70,0	5,0	5,0															**152**
OB1.3	**Technological Basis of Engineering**		2	G	3,0	90,0	48,0	32,0		16,0	42,0			3,0	3,0													**152**
OB1.4	**Car Design and Analysis p.1**	3		G	6,0	180,0	80,0	32,0	32,0	16,0	100,0					5,0	6,0											**152**
OB1.5	**Applied methods of calculations on motor transport**		3	G	5,0	150,0	80,0	32,0	32,0	16,0	70,0					5,0	5,0											**152**
OB1.6	**Engines, Fuel and Lubricating Materials**	4		G	6,0	180,0	96,0	48,0	32,0	16,0	84,0							6,0	6,0									**152**
OB1.7	**Car Design and Analysis p.2**	4		G	6,0	180,0	80,0	48,0	32,0		100,0							5,0	6,0									**152**
OB1.8	**Electrical and Electronic Equipment of Car and Diagnostics Basis**	5		G	6,0	180,0	80,0	32,0	32,0	16,0	100,0									5,0	6,0							**152**
OB1.9	**Automated design systems by motor transport**	6		CG	4,0	120,0	64,0	16,0	48,0		56,0											4,0	4,0					**152**
OB1.10	**Theory and bases of car design p.1**		6	CG	6,0	180,0	80,0	48,0		32,0	100,0											5,0	6,0					**152**
OB1.11	**Hydraulics, Hydraulic and Pneumatic Actuators**	7		G	5,0	150,0	80,0	32,0	32,0	16,0	70,0													5,0	5,0			**152**
OB1.12	**Production Technology and Car Repair**	7		CP	4,0	120,0	64,0	48,0		16,0	56,0													4,0	4,0			**152**
OB1.13	**Theory and bases of car design p.2**	7		CG	6,0	180,0	80,0	48,0	16,0	16,0	100,0													5,0	6,0			**152**
OB1.14	**Fundamentals of Operation and Maintenance of Car at Service Stations**	8		G	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	**152**
OB1.15	**Basic Theory of Optimization on motor transport**	8		G	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	**152**
OB1.16	**Technological Processes for Road Transport**	8		CW	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	**152**
OB1.17	**Modern electric systems on motor transport**	8		G	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	**152**
	Practice		8		6,0	180,0					180,0																6,0	152
	Attestation				6,0	180,0					180,0																6,0	152
3.1.2	**Discipline block 02 "Automotive and**				**93,0**	**2790,0**	**#####**	**580,0**	**348,0**	**232,0**	**1630,0**	**8,0**	**8,0**	**3,0**	**3,0**	**10,0**	**11,0**	**11,0**	**12,0**	**5,0**	**6,0**	**9,0**	**10,0**	**14,0**	**15,0**	**20,0**	**28,0**	
OB2.1	**Foundation Professionals on Motor Vehicles**		1	R	3,0	90,0	48,0	32,0		16,0	42,0	3,0	3,0															**152**
OB2.2	**Methodology for programming programs in various practical applications on vehicles**	1		CG	5,0	150,0	80,0	32,0	32,0	16,0	70,0	5,0	5,0															**152**

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
OB2.3	**Designing of manufacturing and assembling of components for the transmission of cars**		2	G	3,0	90,0	48,0	32,0		16,0	42,0			3,0	3,0													**152**
OB2.4	**The device of modern cars and the assessment of their technical level.p.1**	3		G	6,0	180,0	80,0	32,0	32,0	16,0	100,0					5,0	6,0											**152**
OB2.5	**Modeling and calculation of processes and systems on motor transport**		3	G	5,0	150,0	80,0	32,0	32,0	16,0	70,0					5,0	5,0											**152**
OB2.6	**Working processes in ICE, fuel, lubricating and cooling liquids**	4		G	6,0	180,0	96,0	48,0	32,0	16,0	84,0							6,0	6,0									**152**
OB2.7	**The device of modern cars and the assessment of their technical level.p.2**	4		G	6,0	180,0	80,0	48,0	32,0		100,0							5,0	6,0									**152**
OB2.8	**Pristriy i diagnostika of the most important electric and electronic installation of the car**	5		G	6,0	180,0	80,0	32,0	32,0	16,0	100,0									5,0	6,0							**152**
OB2.9	**Automatic design and modeling of universities and automobiles**	6		CG	4,0	120,0	64,0	16,0	48,0		56,0											4,0	4,0					**152**
OB2.10	**Modeling of the trailer features high-speed vehicles p.1**		6	CG	6,0	180,0	80,0	48,0		32,0	100,0											5,0	6,0					**152**
OB2.11	**Gidravlichne obladnannya of motor zasobiv**	7		G	5,0	150,0	80,0	32,0	32,0	16,0	70,0													5,0	5,0			**152**
OB2.12	**Production systems on motor transport and technology of the repair**	7		CP	4,0	120,0	64,0	48,0		16,0	56,0													4,0	4,0			**152**
OB2.13	**Modeling of the trailer features high-speed vehicles p.2**	7		CG	6,0	180,0	80,0	48,0	16,0	16,0	100,0													5,0	6,0			**152**
OB2.14	**Basics car service**	8		G	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	**152**
OB2.15	**Basics of structural and parametric synthesis in systems of transport machines**	8		G	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	**152**
OB2.16	**Basis for the organization of road transport**	8		CW	4,5	135,0	60,0	30,0	20,0	10,0	75,0															6,0	4,5	**152**
OB2.17	**Electric systems of such cars**	8		G	3,5	105,0	40,0	20,0	10,0	10,0	65,0															4,0	3,5	**152**
	Practice		8		6,0	180,0					180,0																6,0	**152**
	Attestation				6,0	180,0					180,0																6,0	**152**
3.2	**Student optional disciplines**				**12,0**	**360,0**	**96,0**				**264,0**									**2,0**	**4,0**	**2,0**	**4,0**	**2,0**	**4,0**			
OS1	**Discipline 1**				4,0	120,0	32,0				88,0									2,0	4,0							
OS2	**Discipline 2**				4,0	120,0	32,0				88,0											2,0	4,0					
OS3	**Discipline 3**				4,0	120,0	32,0				88,0													2,0	4,0			
	Total for education period				**240,0**	**7200,0**	**#####**	**#####**	**620,0**	**#####**	**3940,0**	**29,0**	**30,0**	**29,0**	**30,0**	**28,0**	**30,0**	**28,0**	**30,0**	**26,0**	**30,0**	**26,0**	**30,0**	**24,0**	**30,0**	**22,0**	**30,0**	
	Hours per week											29,0		29,0		28,0		28,0		26,0		26,0		24,0		22,0		
	Number of exams											4		4		5		4		5		5		4		4		
	Number of tests											3		4		3		4		3		3		4		1		
	Number of course projects (works)															1		1		1		1		1				
	Number of disciplines per semester											7		8		8		8		8		8		8		5		

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

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 №_____ from _____2018

Vice-rector for Scientific-and-Pedagogical Work

_____G. Khrypunov
Signature Full name

Chairman of the support group for the specialty 274 "Automobile transport

_____V.Samorodov
Signature Full name

Director of Education and Science Institute of Mechanical Engineering and Transport

_____ V. Iepifanov
Signature Full name

Head of the Department

_____V.Samorodov
Signature Full name