



CURRICULUM

Professional orientation: **Transport, Navigation and Aviation**

Program: **Transport Engineering and Technologies**

Professional qualification: **Mechanical Engineer**

Educational and qualifical degree: **Bachelor**

Form of study: **Full - Time**

Term of study: **4 years / 8 semesters**

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Mathematics, part 1	1				30	15		15	60	100	160	6
2	Engineering Graphics and Technical Drawing		1			30		30		60	100	160	6
3	Chemistry	1				30		30		60	100	160	6
4	Information Technologies and Systems		1			15		30		45	90	135	5
5	English				1		45			45	90	135	5
6	Elective Subject				1						30	30	1
6a	Specialized Sport Activities, part 1				1						30	30	1
6b	Sport and Social Adaptation, part 1				1						30	30	1
7	Practical Training, part 1				1						30	30	1
Total for the 1 semester:		2	2		3	105	60	90	15	270	540	810	30
8	Mathematics, part 2	2				30	15		15	60	100	160	6
9	Technical Mechanics	2				30		15	15	60	100	160	6
10	Electrical Engineering and Electronics	2				15		30		45	90	135	5
11	Materials Technology	2				30		30		60	75	135	5
12	Interchangeability and Technical Measurements		2			30		30		60	100	160	6
13	Elective Subject				2						30	30	1
13a	Specialized Sport Activities, part 2				2						30	30	1
13b	Sport and Social Adaptation, part 2				2						30	30	1
14	Practical Training, part 2				2						30	30	1
Total for the 2 semester:		4	1		2	135	15	105	30	285	525	810	30
15	Thermodynamics and Heat Transfer	3				30		30		60	100	160	6
16	Strength of Materials	3				30		15		45	115	160	6
17	Transport Technology and Management	3				30		15	15	60	100	160	6
18	Fluid Mechanics	3				30		15		45	90	135	5
19	Basics of Engines and Automobiles (Introduction to Specialty)		3			30		30		60	100	160	6
20	Elective Subject				3						30	30	1
20a	Specialized Sport Activities, part 3				3						30	30	1
20b	Sports Management, part 1				3						30	30	1
Total for the 3 semester:		4	1		1	150		105	15	270	535	805	30

No	Subject Name	Types of term control				Semester auditorium load					Unsupervised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
21	Theory of Mechanisms and Machines	4				30		15	15	60	75	135	5
22	Machine Elements	4				30		15		45	90	135	5
23	Exploitation Materials in Transport Vehicles		4			30		15		45	90	135	5
24	Internal Combustion Engine Fundamentals, part 1	4				30		30		60	100	160	6
25	Automotive Engineering Fundamentals	4				30		15		45	90	135	5
26	Automated Systems for Transport Vehicle Design		4			15		45		60	60	120	4
27	Elective Subject				4						30	30	1
27a	Specialized Sport Activities, part 4				4						30	30	1
27b	Sports Management, part 2				4						30	30	1
28	Special Practice				4						30	30	1
Total for the 4 semester:		4	2		2	165		135	15	315	565	880	32
29	Electronic Systems in Transport Vehicles	5				30		30		60	100	160	6
30	Internal Combustion Engine Fundamentals, part 2	5				30			15	45	115	160	6
31	Construction of Internal Combustion Engines	5				30		30		60	100	160	6
32	Combined and Alternative Engines		5			30		15	15	60	75	135	5
33	Machine Elements, project			5					30	30	30	60	2
34	Gas Automobiles and Gas Stations	5				30		15		45	90	135	5
Total for the 5 semester:		4	1	1		150		90	60	300	510	810	30
35	Design of Internal Combustion Engines	6				30				30	105	135	5
36	Design of Internal Combustion Engines, project			6					30	30	30	60	2
37	Road Safety		6			30		15		45	75	120	4
38	Testing and Control of Transport Vehicles	6				30		30		60	75	135	5
39	Gasoline Fuel Sytems	6				30		15		45	90	135	5
40	Maintenance of Transport Vehicles	6				30		15		45	90	135	5
41	Specialized Practice				6						120	120	4
Total for the 6 semester:		4	1	1	1	150		75	30	255	585	840	30
42	Repair of Transport Vehicles	7				30		15		45	90	135	5
43	Diesel Fuel Sytems	7				30		15		45	90	135	5
44	CAD Systems in Transport Engineering		7			15		45		60	75	135	5
45	Dynamics and Vibrations of Internal Combustion Engines and Transport Vehicles, part 1		7			30				30	90	120	4
46	Design of Transport Vehicles	7				30		30		60	130	190	7
47	Design of Transport Vehicles, project			7					30	30	30	60	2
48	Technical Safety				7	15		15		30	90	120	4
Total for the 7 semester:		3	2	1	1	150		120	30	300	595	895	32
49	Economics				8	30	30			60	75	135	5
50	Dynamics and Vibrations of Internal Combustion Engines and Transport Vehicles, part 2	8				30		15		45	145	190	7
51	Dynamics and Vibrations of Internal Combustion Engines and Transport Vehicles, project			8					30	30	30	60	2
52	Ecology of Transport Vehicles	8				30		30		60	100	160	6
53	Diagnostics of Transport Vehicles	8				30		30		60	130	190	7
Total for the 8 semester:		3		1	1	120	30	75	30	255	480	735	27
Total for all courses of education:		28	10	4	11	1125	105	795	225	2250	4335	6585	241

Facultative subjects

No	Subject Name	Types of term control				Semester auditorium load incl:					Unsuper-vised load	Total work hours	ECTS credits
		E	PA	CP	A	L	S	L	CP CPR	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Types of graduation	Semester	Unsupervised load	ECTS credits
Preparation of Diploma Thesis / Preparation for State Examination	8	300	10
Defence of Diploma Thesis / State Examination	8		

Accepted from AU with

Protocol No 10 / 25.04.2016

Modified with Protocols No 11 / 06.06.2016

Valid from the 2016 / 2017 academic year.

The weekly allocation of the classes is fixed according to the "Structure of the Learning Process" Academic Board adopted for the current academic year.

Head of Department TET:

/ Assoc. Prof. PhD Ivanov Z. /

Dean of Faculty FMET:

/ Assoc. Prof. PhD Antonov G. /