



CURRICULUM

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

Program: **Transport Engineering and Technologies**

Professional qualification: **Mechanical Engineer**

Educational and qualificational 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	145	100	245	6
2	Engineering Graphics and Technical Drawing		1			30		30		160	100	260	6
3	Chemistry	1				30		30		160	100	260	6
4	Information Technologies and Systems		1			15		30		135	90	225	5
5	English				1		45			135	90	225	5
6	Optional Subject				1					30	30	60	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	60	1
Total for the 1 semestar:		2	2		3	105	60	90	15	795	540	1335	30
8	Mathematics, part 2	2				30	15		15	145	100	245	6
9	Technical Mechanics	2				30		15	15	145	100	245	6
10	Electrical Engineering and Electronics	2				15		30		135	90	225	5
11	Materials Technology	2				30		30		135	75	210	5
12	Interchangeability and Technical Measurements		2			30		30		160	100	260	6
13	Optional Subject				2					30	30	60	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	60	1
Total for the 2 semestar:		4	1		2	135	15	105	30	780	525	1305	30
15	Thermodynamics and Heat Transfer	3				30		30		160	100	260	6
16	Strength of Materials	3				30		15		160	115	275	6
17	Transport Technology and Management	3				30		15	15	145	100	245	6
18	Fluid Mechanics	3				30		15		135	90	225	5
19	Basics of Engines and Automobiles (Introduction to Specialty)		3			30		30		160	100	260	6
20	Optional Subject				3					30	30	60	1
20a	Specialized Sport Activities, part 3				3						30	30	1
20b	Sports Management, part 1				3						30	30	1
Total for the 3 semestar:		4	1		1	150		105	15	790	535	1325	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	120	75	195	5
22	Machine Elements	4				30		15		135	90	225	5
23	Exploitation Materials in Transport Vehicles		4			30		15		135	90	225	5
24	Internal Combustion Engine Fundamentals, part 1	4				30		30		160	100	260	6
25	Automotive Engineering Fundamentals	4				30		15		135	90	225	5
26	Automated Systems for Transport Vehicle Design		4			15		45		120	60	180	4
27	Optional Subject				4					30	30	60	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	60	1
Total for the 4 semestar:		4	2		2	165		135	15	865	565	1430	32
29	Electronic Systems in Transport Vehicles	5				30		30		160	100	260	6
30	Internal Combustion Engine Fundamentals, part 2	5				30			15	145	115	260	6
31	Construction of Internal Combustion Engines	5				30		30		160	100	260	6
32	Combined and Alternative Engines		5			30		15	15	120	75	195	5
33	Machine Elements, project			5					30	30	30	60	2
34	Gas Automobiles and Gas Stations	5				30		15		135	90	225	5
Total for the 5 semestar:		4	1	1		150		90	60	750	510	1260	30
35	Design of Internal Combustion Engines	6				30				135	105	240	5
36	Design of Internal Combustion Engines, project			6					30	30	30	60	2
37	Road Safety		6			30		15		120	75	195	4
38	Testing and Control of Transport Vehicles	6				30		30		135	75	210	5
39	Gasoline Fuel Sytems	6				30		15		135	90	225	5
40	Maintenance of Transport Vehicles	6				30		15		135	90	225	5
41	Specialized Practice				6					120	120	240	4
Total for the 6 semestar:		4	1	1	1	150		75	30	810	585	1395	30
42	Repair of Transport Vehicles	7				30		15		135	90	225	5
43	Diesel Fuel Sytems	7				30		15		135	90	225	5
44	CAD Systems in Transport Engineering		7			15		45		135	75	210	5
45	Dynamics and Vibrations of Internal Combustion Engines and Transport Vehicles, part 1		7			30				120	90	210	4
46	Design of Transport Vehicles	7				30		30		190	130	320	7
47	Design of Transport Vehicles, project			7					30	30	30	60	2
48	Technical Safety				7	15		15		120	90	210	4
Total for the 7 semestar:		3	2	1	1	150		120	30	865	595	1460	32
49	Economics				8	30	30			135	75	210	5
50	Dynamics and Vibrations of Internal Combustion Engines and Transport Vehicles, part 2	8				30		15		190	145	335	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		160	100	260	6
53	Diagnostics of Transport Vehicles	8				30		30		190	130	320	7
Total for the 8 semestar:		3		1	1	120	30	75	30	705	480	1185	27
Total for all courses of education:		28	10	4	11	1125	105	795	225	6360	4335	10695	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

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Valid for 2016 / 2017 r. academic year.

Head of Department TET:

/ Assoc. Prof. PhD Ivanov Z. /

Dean of Faculty FMET:

/ Assoc. Prof. PhD Antonov G. /