



CURRICULUM

Professional orientation: **Machine Engineering**

Program: **Automotive Engineering**

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	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 in Automobile Industry	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:		3	2		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:		3	2		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	Machine Elements	4				30		30		60	100	160	6
22	Exploitation Materials in Transport Vehicles		4			30		15		45	90	135	5
23	Internal Combustion Engine Fundamentals, part 1	4				30		30		60	100	160	6
24	Automotive Engineering Fundamentals	4				30		15		45	90	135	5
25	Automated Systems for Transport Vehicle Design		4			15		45		60	100	160	6
26	Elective Subject				4						30	30	1
26a	Specialized Sport Activities, part 4				4						30	30	1
26b	Sports Management, part 2				4						30	30	1
27	Special Practice				4						30	30	1
Total for the 4 semester:		3	2		2	135		135		270	540	810	30
28	Electronic Systems in Automobiles	5				30		30		60	100	160	6
29	Internal Combustion Engine Fundamentals, part 2	5				30			15	45	115	160	6
30	Mechanisms and Systems in Internal Combustion Engines	5				30		30		60	100	160	6
31	Combined and Alternative Engines		5			30		15	15	60	100	160	6
32	Machine Elements, project			5					30	30	30	60	2
33	Technical Safety				5	15		15		30	90	120	4
Total for the 5 semester:		3	1	1	1	135		90	60	285	535	820	30
34	Design Methods of Internal Combustion Engines		6			30	15			45	90	135	5
35	Design Methods of Internal Combustion Engines, project]			6					30	30	30	60	2
36	Maintenance of Transport Vehicles	6				30		15		45	90	135	5
37	Testing of Internal Combustion Engines	6				30		30		60	75	135	5
38	Gasoline Fuel Sytems	6				30		30		60	100	160	6
39	LPG and CNG Fuel Systems		6			30		15		45	90	135	5
40	Specialized Practice				6						60	60	2
Total for the 6 semester:		3	2	1	1	150	15	90	30	285	535	820	30
41	Repair of Transport Vehicles	7				30		15		45	90	135	5
42	Diesel Fuel Sytems	7				30		15		45	90	135	5
43	CAD Systems in Transport Engineering		7			15		45		60	100	160	6
44	Vibration Problems in Automobiles		7			30		15		45	90	135	5
45	Design of Transport Vehicles	7				30		30		60	130	190	7
46	Design of Transport Vehicles, project			7					30	30	30	60	2
Total for the 7 semester:		3	2	1		135		120	30	285	530	815	30
47	Economics				8	30	30			60	75	135	5
48	Automotive Torsional Vibrations	8				30		15		45	145	190	7
49	Automotive Torsional Vibrations, project			8					30	30	30	60	2
50	Ecology of Transport Vehicles	8				30		30		60	100	160	6
51	CAD Systems in Automotive Engineering	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:		23	13	4	11	1065	120	810	210	2205	4220	6425	237

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 22 / 22.06.2017

Modified with Protocols No 32 / 29.06.2018

Valid from the 2017 / 2018 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. /