



Degree of education:	Bachelor
Professional qualification:	Automobile engineer
Duration:	4 years
Form of study:	Regular

CARRICULUM

Specialty: **“Automotive Engineering”**
Professional orientation **5.5. “Land Transport, Maritime Transport and
Aeronautics”**

Teaching language: English

I. Time planning

Number of weeks								
Year	Attendance	Preparation for exams	Practice	Production Practice	Specialized Practice	State exam	Holidays	Total
I	30	11	–	–	–	–	11	52
II	30	11	–	2	–	–	9	52
III	30	11	–	–	3	–	8	52
IV	29	9	–	–	2	2	10	52

II. Study plan

Code according ECTS FTMEN_N – Fundamental courses TAEN_N <ul style="list-style-type: none"> • T – Degree: B – “Bachelor”, M – “Master”; • AUE – Automotive Engineering • e – language of teaching; • N_N – Number; Lectures (L), Exercises (E), Laboratory Practice (LP), Homework (H), per week; Exam (Ex), Continuous control(CC); Course Project (CP)/ Course Work (CW)
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N _N	COURSE	Weekly attendance					Assessment					Code	Credits ECTS
		L	E	LP	Total	H	Total	Ex	CC	CP	CW		

Semester I

1	Mathematics I	3	2	0	5	8	13	1				BAUEe01	8
2	Physics	3	1	1	5	8	13	1				BAUEe02	8
3	Informatics I	2	0	3	5	8	13	1				BAUEe03	7
4	Fundamentals of Design	2	0	2	4	7	11	1			1	BAUEe04	7
5	Foreign language	0	(2)	0	(2)	(2)	(4)		1*			BAUEe05	0
6	Sport	0	(3)	0	(3)							BAUEe06	0
	Total	10	3	6	19	31	50	4			1		30

Semester II

7	Mathematics II	3	2	0	5	8	13	1				BAUEe07	8
8	Mechanics I	3	2	0	5	8	13	1				BAUEe08	8
9	Informatics II	2	0	3	5	7	12	1				BAUEe09	7
10	Materials Science	3	0	2	5	7	12	1				BAUEe10	7
11	Foreign language	0	(2)	0	(2)	(2)	(4)		1*			BAUEe11	0
12	Sport	0	(3)	0	(3)							BAUEe12	0
	Total	11	4	5	20	30	50	4	1				30

* One mark at the end of academic year

№	COURSE	Weekly attendance					Assessment					Code	Credits ECTS
		L	E	LP	Total	H	Total	Ex	CC	CP	CW		

Semester III

13	Mechanics II	3	2	0	5	8	13	1				BAUEe13	8
14	Strength of materials	3	1	1	5	8	13	1			1	BAUEe14	8
15	Fluid Mechanics	3	0	2	5	8	13	1				BAUEe15	7
16	Fundamental of Electricity	3	0	1	4	7	11	1				BAUEe16	7
17	Foreign language	0	(2)	0	(2)	(2)	(4)		1*			BAUEe17	0
18	Sport	0	(3)	0	(3)							BAUEe18	0
Total		12	3	4	19	31	50	4			1		30

Semester IV

19	Electronics	3	0	2	5	8	12	1				BAUEe19	7
20	Technical Measurements	2	0	2	4	5	9	1				BAUEe20	5
21	Thermodynamics and Heat Transfer	2	0	1	3	4	9	1				BAUEe21	5
22	Theory of Automation Control	3	0	1	4	8	11		1		1	BAUEe22	7
23	Machine Design	2	0	2	4	5	9	1				BAUEe23	6
24	Foreign language	0	(2)	0	(2)	(2)	(4)		1*			BAUEe24	0
25	Sport	0	(3)	0	(3)							BAUEe25	0
Total		12	0	8	20	30	50	4	1		1		30

* One mark at the end of the second semester

Semester V

26	Internal Combustion Engines - Theory	3	0	1	4	6	10	1			1	BAUEe26	6
27	Theory of Automobiles	3	0	1	4	6	10	1			1	BAUEe27	6
28	CAD application in Automotive Industry I	3	0	1	4	6	10	1				BAUEe28	6
29	Hydraulic and Pneumatic Motion	3	0	1	4	6	10	1				BAUEe29	6
30	Management	3	0	1	4	6	10		1			BAUEe30	6
31	Practice in Internal Combustion Engines	0	0	(3)	(3)							BAUEe31	0
Total		15	0	5	20	30	50	4	1		2		30

№	COURSE	Weekly attendance					Assessment					Code	Credits ECTS
		L	E	LP	Total	H	Total	Ex	CC	CP	CW		

Semester VI

32	CAD application in Automotive Industry II	2	0	1	3	7	10	1				BAUEe32	6
33	Internal Combustion Engines - Design	3	0	1	4	6	10	1		1		BAUEe33	6
34	Design of Automobiles	3	0	2	5	6	11	1				BAUEe34	6
35	Automobile Electronics and Control	2	0	1	3	4	7		1			BAUEe35	5
36	Internal combustion engines - Systems	3	1	1	5	7	12	1			1	BAUEe36	7
37	Practice in Automobile machineries	0	0	(3)	(3)							BAUEe37	0
Total		13	1	6	20	30	50	4	1	1	1		30

Semester VII

38	European Regulation in Automobile Transport	2	0	1	3	7	10	1				BAUEe38	6
39	Alternative Internal Combustion Engines	3	0	1	4	8	12	1				BAUEe39	7
40	Automobile Transmissions	3	0	1	4	8	12	1		1		BAUEe40	7
41	Logistics and Logistic Machineries	3	0	2	5	5	10	1			1	BAUEe41	6
42	Systems for Automobiles Control	2	0	1	3	3	6		1			BAUEe42	4
43	Practice in Automobile Diagnostics	0	0	(3)	(3)							BAUEe43	0
Total		13	0	6	19	31	50	4	1	1	1		30

Semester VIII – 14 weeks

44	Traffic Organization and Control in Automobile Transport	3	0	2	5	9	14	1				BAUEe44	6
45	Maintenance and Diagnostics of Automobiles	3	0	2	5	9	14	1				BAUEe45	6
46	Buses, Heavy-duty Vehicles and Trailers	2	0	2	4	7	11	1			1	BAUEe46	4
47	Electric and Hybrid Vehicles	3	0	1	4	7	11	1		1		BAUEe47	4
48	State exam											BAUEe48	10
Total		11	0	7	18	32	50	4		1	1		30

III. MAIN PARAMETERS OF CARRICULUM

1. Study duration – 4 years, 8 semesters

2. Overall attendance – 2307 hours

2.1. Lectures – 1444 hours

2.2. Exercises – 165 hours

2.3. Laboratory practices – 698 hours

3. Overall number of courses – 47

3.1. Obligatory – 36

3.2. Foreign language – 4

3.3. Sport – 4

3.4. Elective – 3

4. Control

4.1. Exams – 32

4.2. Continuous control – 5

4.3. Course Project – 3

4.4. Course Work – 8

5. Practice – 7 weeks.

24.04.2015

Dean of Faculty of Transport
(Prof. PhD Teodossi Evtimov)