

# CURRICULUM

## Bachelor's degree program in Autotransport Machinery – part time

ECTS Subject code T p AT No

- T – type of course: B for BEng, M for MEng;

- I - IV semester – fundamental subjects - professional field 5.1. Mechanical Engineering;

- AT – specialty “Autotransport Machinery” in Bulgarian;

- p - additional symbol for Plovdiv Branch;

- No – number of the subject;

Lectures (L), Tutorials (Tut.), Labs (Lab.), Auditorium Total (AT), Self-Study (SS), Exam (E),  
Continuous Assessment (CA), Semester Project (SP), Semester Assignment (course work) (SA).

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
<b>SEMESTER I</b>													
1	<b>MAT12</b>	Mathematics I	15	15	0	<b>30</b>	180	<b>210</b>	1				<b>7</b>
2	<b>PHY01</b>	Physics	25	10	15	<b>50</b>	160	<b>210</b>	1				<b>7</b>
3	<b>CHE01</b>	Chemistry	15	0	10	<b>25</b>	125	<b>150</b>		1			<b>5</b>
4	<b>CCE23</b>	Information and communication technologies	15	0	25	<b>40</b>	200	<b>240</b>	1			1	<b>8</b>
5	<b>LNG01</b>	Foreign Language I	0	15	0	<b>15</b>	45	<b>60</b>		1			<b>2</b>
6	<b>SPR01</b>	Practicum	0	0	0	<b>0</b>	30	<b>30</b>		1			<b>1</b>
<b>Total</b>			<b>70</b>	<b>40</b>	<b>50</b>	<b>160</b>	<b>740</b>	<b>900</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>30</b>
<b>SEMESTER II</b>													
7	<b>MAT22</b>	Mathematics II	15	15	0	<b>30</b>	150	<b>180</b>	1				<b>6</b>
8	<b>ENG01</b>	Materials Science	25	0	25	<b>50</b>	160	<b>210</b>	1			1	<b>7</b>
9	<b>MEC01</b>	Mechanics I	15	10	10	<b>35</b>	175	<b>210</b>	1			1	<b>7</b>
10	<b>EEA21</b>	Electrical Engineering and Electronics	15	0	15	<b>30</b>	120	<b>150</b>		1			<b>5</b>
11	<b>LNG02</b>	Foreign Language II	0	15	0	<b>15</b>	45	<b>60</b>		1			<b>2</b>
12	<b>PRC12</b>	Practicum	0	0	0	<b>0</b>	90	<b>90</b>		1			<b>3</b>
<b>Total</b>			<b>70</b>	<b>40</b>	<b>50</b>	<b>160</b>	<b>740</b>	<b>900</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>30</b>
<b>SEMESTER III</b>													
13	<b>MAT31</b>	Mathematics III	15	15	0	<b>30</b>	150	<b>180</b>	1				<b>6</b>
14	<b>MEC02</b>	Mechanics II	15	0	15	<b>30</b>	180	<b>210</b>	1			1	<b>7</b>
15	<b>MEC03</b>	Strength of Materials	25	0	15	<b>40</b>	170	<b>210</b>	1			1	<b>7</b>
16	<b>ENG02</b>	Engineering Graphics	15	0	25	<b>40</b>	140	<b>180</b>		1		1	<b>6</b>
17	<b>CCE24</b>	Internet	10	10	0	<b>20</b>	70	<b>90</b>		1			<b>3</b>
18	<b>PRC13</b>	Practicum	0	0	0	<b>0</b>	30	<b>30</b>		1			<b>1</b>
<b>Total</b>			<b>80</b>	<b>25</b>	<b>55</b>	<b>160</b>	<b>740</b>	<b>900</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>30</b>
<b>SEMESTER IV</b>													
19	<b>MEC04</b>	Machine Elements	25	10	15	<b>50</b>	160	<b>210</b>	1				<b>7</b>
20	<b>MEC05</b>	Fluid Mechanics, hydro and pneumatic drive	25	0	15	<b>40</b>	140	<b>180</b>	1				<b>6</b>
21	<b>ENR01</b>	Thermodynamics and Heat Transfer	15	0	15	<b>30</b>	120	<b>150</b>	1				<b>5</b>
22	<b>MEC06</b>	Theory of Mechanisms and Machines	15	10	10	<b>35</b>	145	<b>180</b>	1			1	<b>6</b>
23	<b>MEC07</b>	Machine Elements-project	0	0	0	<b>0</b>	90	<b>90</b>			1		<b>3</b>
24	<b>PRC14</b>	Practicum	0	0	0	<b>0</b>	90	<b>90</b>		1			<b>3</b>
<b>Total</b>			<b>80</b>	<b>20</b>	<b>55</b>	<b>155</b>	<b>745</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>30</b>

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
<b>SEMESTER V</b>													
25	<b>BpAT01</b>	Metrology and measuring equipment	15	0	10	<b>25</b>	125	<b>150</b>		1			<b>5</b>
26	<b>BpAT02</b>	Logistics equipment	15	0	15	<b>30</b>	120	<b>150</b>	1				<b>5</b>
27	<b>BpAT03</b>	Theory of Automobile	15	10	15	<b>40</b>	140	<b>180</b>	1				<b>6</b>
28	<b>BpAT04</b>	Technology and Organization of Road Transport	15	0	10	<b>25</b>	125	<b>150</b>	1				<b>5</b>
29	<b>BpAT05</b>	Automotive expertise	15	10	15	<b>40</b>	140	<b>180</b>	1				<b>6</b>
30	<b>BpAT06</b>	Automotive expertise - project	0	0	0	<b>0</b>	90	<b>90</b>			1		<b>3</b>
<b>Total</b>			<b>75</b>	<b>20</b>	<b>65</b>	<b>160</b>	<b>740</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>30</b>
<b>SEMESTER VI</b>													
31	<b>BpAT07</b>	Theory of Internal Combustion Engines	15	10	15	<b>40</b>	140	<b>180</b>	1				<b>6</b>
32	<b>BpAT08</b>	Construction of Automobile	15	10	15	<b>40</b>	140	<b>180</b>	1				<b>6</b>
33	<b>BpAT09</b>	Theory and Construction of Automobile	0	0	0	<b>0</b>	90	<b>90</b>			1		<b>3</b>
34	<b>BpAT10</b>	Organization and Traffic Safety	15	10	10	<b>35</b>	115	<b>150</b>	1			1	<b>5</b>
35	<b>BpAT11</b>	Electrical Equipment in Transport	15	0	10	<b>25</b>	125	<b>150</b>	1				<b>5</b>
36	<b>BpAT12</b>	Computer engineering analysis of automotive parts	15	0	15	<b>30</b>	120	<b>150</b>		1		1	<b>5</b>
<b>Total</b>			<b>75</b>	<b>30</b>	<b>65</b>	<b>170</b>	<b>730</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>30</b>
<b>SEMESTER VII</b>													
37	<b>BpAT13</b>	Design of Internal Combustion Engines	15	10	10	<b>35</b>	145	<b>180</b>	1				<b>6</b>
38	<b>BpAT14</b>	Design of Internal Combustion Engines	0	0	0	<b>0</b>	90	<b>90</b>			1		<b>3</b>
39	<b>BpAT15</b>	Transmissions in Automobile	15	10	10	<b>35</b>	115	<b>150</b>	1			1	<b>5</b>
40	<b>BpAT16</b>	Reliability and technical diagnostics of the car	15	10	10	<b>35</b>	115	<b>150</b>	1				<b>5</b>
41	<b>BpAT17</b>	Systems of Internal Combustion Engines	15	10	10	<b>35</b>	115	<b>150</b>	1				<b>5</b>
42	<b>BpAT18</b>	Advanced electronic systems in the vehicle	15	10	10	<b>35</b>	145	<b>180</b>		1			<b>6</b>
<b>Total</b>			<b>75</b>	<b>50</b>	<b>50</b>	<b>175</b>	<b>725</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>30</b>
<b>SEMESTER VIII</b>													
43	<b>BpAT19</b>	Vehicle maintenance and repair	10	0	10	<b>20</b>	100	<b>120</b>	1				<b>4</b>
44	<b>BpAT20</b>	Management and Marketing	10	10	0	<b>20</b>	100	<b>120</b>		1			<b>4</b>
45	<b>BpAT21</b>	Ecology and Technical Safety	10	0	10	<b>20</b>	100	<b>120</b>	1				<b>4</b>
46	<b>BpAT22</b>	Optional subject from list №1	10	0	10	<b>20</b>	100	<b>120</b>	1				<b>4</b>
47	<b>BpAT23</b>	Optional subject from list №2	10	0	10	<b>20</b>	100	<b>120</b>	1				<b>4</b>
48	<b>BpAT24</b>	Diploma project	0	0	0	<b>0</b>	300	<b>300</b>	Defense of diploma thesis			<b>10</b>	
<b>Total</b>			<b>50</b>	<b>10</b>	<b>40</b>	<b>100</b>	<b>800</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>30</b>

### LIST OF THE OPTIONAL SUBJECTS

<b>List 1</b>		<b>ECTS = 4</b>
1	Combustion Engines Diagnosis	BpAT22.1
2	Automobile Diagnostics	BpAT22.2
<b>List 2</b>		<b>ECTS = 4</b>
1	CAD in development of Internal Combustion Engines	BpAT23.1
2	CAD in Automotive development	BpAT23.2

### LIST OF THE FACULTATIVE SUBJECTS

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
<b>SEMESTER I</b>													
1	<b>FaSPR01</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER II</b>													
1	<b>FaSPR02</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER III</b>													
1	<b>FaSPR03</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER IV</b>													
1	<b>FaSPR04</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER V</b>													
1	<b>FaSPR05</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER VI</b>													
1	<b>FaSPR06</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER VII</b>													
1	<b>FaSPR07</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>
<b>SEMESTER VIII</b>													
1	<b>FaSPR08</b>	Sport	0	0	0	<i>0</i>	30	<b>30</b>		1			<b>1</b>