

# "Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Internal Combustion Engines

Degree: Bachelor

Mode of study: Full time

Duration of study: 4.0 years

No	Code	Course	Total contact hours (Hours of lectures and seminars)	ECTS credits
<i>Compulsory courses</i>				
1	811	Mathematics part I	75	7
2	1207	Chemistry	45	4
3	715	Foreign Language - English, German, French, Russian	90	6
4	702	Economics	60	4
5	1201	Material Science and Technology	90	8
6	812	Mathematics part II	75	7
7	1114	Physics	90	7
8	821	Informatics	90	6
9	1011	Applied Geometry and Engineering Drawing I	45	3
10	906	Theoretical Mechanics part I	60	6
11	813	Mathematics part III	60	6
12	907	Theoretical Mechanics part II	60	6
13	1012	Applied Geometry and Engineering Drawing II	45	3
14	902	Strength of Materials	105	7
15	278	Heat Transfer Equipment	60	5
16	1002	Computer Drawing for Engineers	45	3
17	903	Theory of Mechanisms and Machines	60	5
18	1116	Electrical Engineering and Electronics	90	6
19	1013	Metrology and Measurement Equipment	60	4
20	908	Fluid Mechanics	60	5
21	1008	Machine Elements	105	8
22	1009	Machine Elements - make a project	0	2
23	1205	Mechanical Engineering Technologies	75	5
24	602	Theory Piston Internal Combustion Engines-part 1	105	8
25	672	Piston Engines with Internal Combustion part I - make a project	0	2
26	690	Hydraulic and Pneumatic Drives and Equipment	60	5
27	1341	Electrical Machines, Apparatuses and Drive	45	4
28	611	Theory of Piston Internal Combustion Engines - part2	105	8
29	636	Piston Engines with Internal Combustion part II - make a project	0	2
30	637	Fuel Systems of Internal Combustion Engines	75	5
31	638	Systems of Internal Combustion Engines	75	5
32	673	Automated Control of Internal Combustion Engines	60	5
33	201	Technical Safety and Ecology	45	4
34	642	Gas Turbine Engines	105	9
35	643	Gas Turbine Engines - make a project	0	2
36	6600	Technical Exploitation of Internal Combustion Engines	45	5
37	6669	Diagnosis and testing of DVG	90	8

38	1212	Car Exploitation Materials	75	5
39	649	Internal Combustion Engines Repair	90	6
40	703	Economic History	45	3
41	719	Physical Education and Sports	0	0
	1222	Welding	6	0
	1223	Thermal Treatment	6	0
	1225	Turnery	6	0
	1224	Locksmith	6	0
	1221	Casting	6	0
<i>Elective courses</i>				
42.1	650	Material Handling and Construction Equipment	75	5
42.2	651	Industrial Logistics	75	5
43.1	244	Basic Machinery	75	6
43.2	219	Transport Equipment	75	6
44.1	6601	Implementation of Internal Combustion Engines	60	4
44.2	667	Transmission Systems	60	4
<i>Optional courses</i>				
45	718	Specialized Course in a Foreign Language	60	5
46	648	Computer-aided Design Systems	75	5
	669	Contemporary Trends in Internal Combustion Engines Development	0	0
	674	Modeling of Combustion Engine Modes	0	0