

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Internal Combustion Engines

Degree: Bachelor

Mode of study: Part 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	38	7
2	1207	Chemistry	23	4
3	715	Foreign Language - English, German, French, Russian	45	6
4	702	Economics	30	4
5	1201	Material Science and Technology	45	8
6	812	Mathematics part II	38	7
7	1114	Physics	45	7
8	821	Informatics	45	6
9	1011	Applied Geometry and Engineering Drawing I	23	3
10	906	Theoretical Mechanics part I	30	6
11	813	Mathematics part III	30	6
12	907	Theoretical Mechanics part II	30	6
13	1012	Applied Geometry and Engineering Drawing II	23	3
14	902	Strength of Materials	53	7
15	278	Heat Transfer Equipment	30	5
16	1002	Computer Drawing for Engineers	23	3
17	903	Theory of Mechanisms and Machines	30	5
18	1116	Electrical Engineering and Electronics	45	6
19	1013	Metrology and Measurement Equipment	30	4
20	908	Fluid Mechanics	30	5
21	1008	Machine Elements	53	8
22	1009	Machine Elements - make a project	0	2
23	1205	Mechanical Engineering Technologies	38	5
24	602	Theory Piston Internal Combustion Engines-part 1	53	8
25	672	Piston Engines with Internal Combustion part I - make a project	0	2
26	690	Hydraulic and Pneumatic Drives and Equipment	30	5
27	1341	Electrical Machines, Apparatuses and Drive	23	4
28	611	Theory of Piston Internal Combustion Engines - part2	53	8
29	636	Piston Engines with Internal Combustion part II - make a project	0	2
30	637	Fuel Systems of Internal Combustion Engines	38	5
31	638	Systems of Internal Combustion Engines	38	5
32	673	Automated Control of Internal Combustion Engines	30	5
33	201	Technical Safety and Ecology	23	4
34	642	Gas Turbine Engines	53	9
35	643	Gas Turbine Engines - make a project	0	2
36	6600	Technical Exploitation of Internal Combustion Engines	23	5
37	6669	Diagnosis and testing of DVG	45	8

38	1212	Car Exploitation Materials	38	5
39	649	Internal Combustion Engines Repair	45	6
40	703	Economic History	23	3
	1221	Casting	3	0
	1222	Welding	3	0
	1223	Thermal Treatment	3	0
	1225	Turnery	3	0
	1224	Locksmith	3	0
<i>Elective courses</i>				
42.1	650	Material Handling and Construction Equipment	38	5
42.2	651	Industrial Logistics	38	5
43.1	244	Basic Machinery	38	6
43.2	219	Transport Equipment	38	6
44.1	6601	Implementation of Internal Combustion Engines	30	4
44.2	667	Transmission Systems	30	4
<i>Optional courses</i>				
45	718	Specialized Course in a Foreign Language	30	5
46	648	Computer-aided Design Systems	38	5
	669	Contemporary Trends in Internal Combustion Engines Development	0	0
	674	Modeling of Combustion Engine Modes	0	0