

# "Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Transportation Engineering

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	53	9
6	812	Mathematics part II	38	7
7	1114	Physics	45	7
8	821	Informatics	45	7
9	703	Economic History	23	3
10	1001	Applied Geometry and Engineering Drawing	38	6
11	813	Mathematics part III	30	6
12	901	Theoretical Mechanics	53	8
13	1106	Electrical Engineering and Electronics	53	8
14	1007	Metrology and Measurement Equipment	23	4
15	201	Technical Safety and Ecology	30	4
16	902	Strength of Materials	53	8
17	204	Heat Transfer Equipment	38	6
19	1340	Electrical Machines and Apparatuses	45	6
20	904	mechatronic systems	23	4
21	1008	Machine Elements	53	8
22	1205	Mechanical Engineering Technologies	30	4
23	207	Internal Combustion Engines	106	8
24	346	Transport Infrastructure	23	4
25	1009	Machine Elements - make a project	0	2
26	211	Automotive Engineering	53	8
27	234	Railway Wagons	45	7
28	220	Reliability of Vehicles	38	5
29	144	Technology and Organization of Transport	30	4
30	222	Train Traction	23	4
31	208	Internal Combustion Engines - make a project	0	2
32	245	Locomotives	53	9
33	1358	Electrical Transport Equipment	38	9
34	262	Railway Wagons - make a project	0	4
35	250	Transport Equipment Dynamics	38	9
36	253	Transport Equipment Testing and Diagnostics	38	9
37	251	Transport Equipment Repair	38	8
38	254	Locomotives - make a project	0	4
903	903	Theory of Mechanisms and Machines	30	6

<i>Elective courses</i>				
40.1	687	Material Handling Machines	30	4
40.2	688	Hydraulic and Pneumatic Drives and Equipment	30	4
41.1	252	Brake Systems in Transport Equipment	23	8
41.2	255	Systems for Microclimate Maintenance in Transport Equipment	23	8
<i>Optional courses</i>				
42	141	Railways Technical Operation and Traffic Safety	30	4
43.1	261	Control Systems for Diesel Locomotives	45	6
43.2	1338	Control Systems of Electric Locomotives	45	6
43.3	237	Wagons Revision	45	6
44	223	Train Brakes	38	5
45.1	232	Diesel Locomotives Operation	38	5
45.2	1345	Operation of Electric Locomotives	38	5
45.3	236	Railway Wagon Operation	38	5