

# "Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Transportation Engineering

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	105	9
6	812	Mathematics part II	75	7
7	1114	Physics	90	7
8	821	Informatics	90	7
9	703	Economic History	45	3
10	1001	Applied Geometry and Engineering Drawing	75	6
11	813	Mathematics part III	60	6
12	901	Theoretical Mechanics	105	8
13	1106	Electrical Engineering and Electronics	105	8
14	1007	Metrology and Measurement Equipment	45	4
15	201	Technical Safety and Ecology	60	4
16	902	Strength of Materials	105	8
17	204	Heat Transfer Equipment	75	6
19	1340	Electrical Machines and Apparatuses	90	6
20	904	mechatronic systems	45	4
21	1008	Machine Elements	105	8
22	1205	Mechanical Engineering Technologies	60	4
23	207	Internal Combustion Engines	105	8
24	346	Transport Infrastructure	45	4
25	1009	Machine Elements - make a project	0	2
26	211	Automotive Engineering	105	8
27	234	Railway Wagons	90	7
28	220	Reliability of Vehicles	75	5
29	144	Technology and Organization of Transport	60	4
30	222	Train Traction	45	4
31	208	Internal Combustion Engines - make a project	0	2
32	245	Locomotives	105	9
33	1358	Electrical Transport Equipment	75	9
34	262	Railway Wagons - make a project	0	4
35	250	Transport Equipment Dynamics	75	9
36	253	Transport Equipment Testing and Diagnostics	75	9
37	251	Transport Equipment Repair	75	8
38	254	Locomotives - make a project	0	4
39	719	Physical Education and Sports	0	0

903	903	Theory of Mechanisms and Machines	60	6
<i>Elective courses</i>				
40.1	687	Material Handling Machines	60	4
40.2	688	Hydraulic and Pneumatic Drives and Equipment	60	4
41.1	252	Brake Systems in Transport Equipment	45	8
41.2	255	Systems for Microclimate Maintenance in Transport Equipment	45	8
<i>Optional courses</i>				
42	141	Railways Technical Operation and Traffic Safety	60	4
43.1	261	Control Systems for Diesel Locomotives	90	6
43.2	1338	Control Systems of Electric Locomotives	90	6
43.3	237	Wagons Revision	90	6
44	223	Train Brakes	75	5
45.1	232	Diesel Locomotives Operation	75	5
45.2	1345	Operation of Electric Locomotives	75	5
45.3	236	Railway Wagon Operation	75	5