

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Transportation Engineering

Degree: Master's Degree for Graduates with Professional Bachelor Degree

Mode of study: Part time

Duration of study: 2.5 years

No	Code	Course	Total contact hours (Hours of lectures and seminars)	ECTS credits
<i>Compulsory courses</i>				
1	882	Applied Mathematics	38	7
2	901	Theoretical Mechanics	53	6
3	600	Internal Combustion Engines	53	6
4	1009	Machine Elements - make a project	0	2
5	245	Locomotives	45	7
6	211	Automotive Engineering	45	7
7	903	Theory of Mechanisms and Machines	30	5
8	902	Strength of Materials	53	8
9	220	Reliability of Vehicles	38	7
10	699	Internal Combustion Engines - make a project	0	2
11	833	Mathematical Methods in Engineering	30	6
12	930	Structural Mechanics of Machine Design	38	7
13	234	Railway Wagons	45	6
14	239	Strength and Durability of Automotive and Railway Equipment	30	6
15	1003	Computer-aided Design and Construction	45	7
16	240	Engineering Experiment: Measurement and Analysis	45	7
17	250	Transport Equipment Dynamics	38	5
18	242	Automotive Theory and Design	38	5
19	241	Railway Equipment Theory and Design	45	6
20	2222	Transport technology (Automotive technology or Railway technology) - course project	0	2
27	2223	Development and defense of a thesis	0	15
<i>Elective courses</i>				
21.1	2217	Automotive Break Systems	23	3
21.2	2218	Braking systems of railway machinery	23	3
22.1	2221	Alternative drives of transport equipment	23	3
22.2	214	Automotive Aerodynamics, Design and Ergonomics	23	3
<i>Optional courses</i>				
23	2219	Transmission systems in the car	23	3
25	744	Foreign language with a specialized module - Part I	23	3
25	2220	Electronic systems in the car	23	3
26	745	Foreign language with a specialized module - Part II	23	3