

# "Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Material Handling, Road and Construction Machinery

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	147	Transport and Logistics	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	645	Mechanization and Automation of Material Handling Processes in Transport	75	7
25	620	Machines for Extraction and Processing of Construction Materials	90	7
26	627	Hydraulic and Pneumatic Drives of Material Handling and Construction Equipment	90	8
27	603	Technical Safety and Control of Material Handling and Construction Equipment	45	5
28	703	Economic History	45	3
29	640	Electric Drive of Material Handling and Construction Equipment	75	7
30	655	Industrial Logistics: Material Handling Machines, Processes and Systems	105	9
31	658	Industrial Logistics: Material Handling Machines, Processes and Systems Project	0	4
32	653	Machines and Systems for Continuous Transport	75	5
33	631	Building and Road Construction Machines	90	8

34	660	Industrial Logistics: Loading/Unloading Equipment	75	5
35	656	Technical Maintenance of Material Handling and Construction Equipment	75	5
36	662	Project in Building and Road Construction Machines	0	2
37	663	Railway Construction Equipment	90	7
38	665	Maintenance of Material Handling and Construction Equipment	60	4
39	666	Railway Construction Equipment - make a project	0	2
	1224	Locksmith	6	0
	1225	Turnery	12	0
	1223	Thermal Treatment	6	0
	1221	Casting	6	0
	719	Physical Education and Sports	0	0
	1222	Welding	6	0
<i>Elective courses</i>				
41.1	346	Transport Infrastructure	45	3
41.2	675	Internal Factory Transport	45	3
42.1	248	Basic Machinery of Material Handling and Construction Equipment	60	5
42.2	676	Storage Processes and Systems	60	5
43.1	664	Material Handling Manipulators and Robots	60	5
43.2	668	Elevators and Cableways	60	5
<i>Optional courses</i>				
44	677	Computer-aided Design of Material Handling and Construction Equipment	60	4
45	671	Automated Control, Control Systems of Material Handling and Construction Machines	75	5
46	661	Information and Control Systems of Material Handling and Construction Equipment	75	5