

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Material Handling, Road and Construction Machinery

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	147	Transport and Logistics	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	645	Mechanization and Automation of Material Handling Processes in Transport	38	8
25	620	Machines for Extraction and Processing of Construction Materials	45	7
26	627	Hydraulic and Pneumatic Drives of Material Handling and Construction Equipment	45	8
27	603	Technical Safety and Control of Material Handling and Construction Equipment	23	5
28	703	Economic History	23	3
29	640	Electric Drive of Material Handling and Construction Equipment	38	7
30	655	Industrial Logistics: Material Handling Machines, Processes and Systems	53	9
31	658	Industrial Logistics: Material Handling Machines, Processes and Systems Project	0	4
32	653	Machines and Systems for Continuous Transport	38	5
33	631	Building and Road Construction Machines	45	8

34	660	Industrial Logistics: Loading/Unloading Equipment	38	5
35	656	Technical Maintenance of Material Handling and Construction Equipment	38	5
36	662	Project in Building and Road Construction Machines	0	2
37	663	Railway Construction Equipment	45	7
38	665	Maintenance of Material Handling and Construction Equipment	30	4
39	666	Railway Construction Equipment - make a project	0	2
	1221	Casting	3	0
	1223	Thermal Treatment	3	0
	1224	Locksmith	3	0
	1225	Turnery	3	0
	1222	Welding	3	0
<i>Elective courses</i>				
40.1	346	Transport Infrastructure	23	3
40.2	675	Internal Factory Transport	23	3
41.1	248	Basic Machinery of Material Handling and Construction Equipment	30	5
41.2	676	Storage Processes and Systems	30	5
42.1	664	Material Handling Manipulators and Robots	30	5
42.2	668	Elevators and Cableways	30	5
<i>Optional courses</i>				
43	671	Automated Control, Control Systems of Material Handling and Construction Machines	38	5
44	677	Computer-aided Design of Material Handling and Construction Equipment	30	4
45	661	Information and Control Systems of Material Handling and Construction Equipment	38	5