

"Todor Kableshkov" University of Transport

Faculty: Machinery and Construction Technologies in Transport

Programme: Transportation Civil Engineering

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

Mode of study: Part time

Duration of study: 3.5 years

No	Code	Course	Total contact hours (Hours of lectures and seminars)	ECTS credits
<i>Compulsory courses</i>				
1	912	Strength of Materials	38	8
2	409	Hydrology and Hydraulics	23	4
3	419	Engineering Geology	23	3
4	474	Soil Mechanics	23	5
5	913	Structural Mechanics	30	6
6	821	Informatics	30	4
7	882	Applied Mathematics	38	7
8	822	Descriptive Geometry	30	6
9	309	Design and Construction of Railway Track	53	7
10	339	Design and Construction of Railway Track - make a project	0	5
11	445	Foundation Engineering	30	7
12	342	Design and Construction of Roads	53	7
13	340	Design and Construction of Roads - make a project	0	5
14	404	Reinforced Concrete and Reinforced Concrete Structures	53	7
15	338	Superstructure and Maintenance of Railway Track	30	4
16	318	Urban Planning, Traffic and Streets	23	4
17	337	Road and Track Geometry	23	3
18	416	Reinforced Concrete Bridges	53	8
19	448	Reinforced Concrete Bridges - make a project	0	5
20	403	Steel Bridges	45	8
21	411	Steel and Wood Constructions	30	3
22	429	Nonlinear Research of Reinforced Concrete Structures	30	5
23	935	Theory of Elasticity, Dynamics and Stability of Structures	45	7
24	476	Materials for Protection of Building Structures	30	5
25	370	Design and Reconstruction of Railway Tracks and Stations	30	5
26	331	Airdromes	23	3
27	356	Design, reconstruction and operation of roads	38	5
28	332	Metro Systems	30	5
29	315	Special Railways	23	3
30	417	Port Construction	30	5
31	322	Urban Track	30	5
32	433	Advanced Research, Design and Technologies	38	7
<i>Elective courses</i>				
33.1	693	Civil Engineering Equipment	23	3
33.2	424	Management of Construction Firm	23	3

34.1	379	High-Speed Railway Lines	23	3
34.2	451	Regulations in Railway Infrastructure	23	3
35.1	456	Strengthening of deep excavations and foundation in open waters	23	3
35.2	459	Combined foundation and reinforcement of landslides	23	3
36.1	330	Junctions	30	5
36.2	381	Design and construction of intermodal terminals	30	5
<i>Optional courses</i>				
37	361	Engineering Construction Drawing	23	3
38	377	Safety and Health in the Construction Process Management	30	5
39	453	Computer-aided Design Systems	23	3
40	357	Assessment of compliance of infrastructure projects	38	6