

"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	816	Mathematics part III	30	6
2	410	Soil Mechanics and Foundation Engineering	61	9
3	822	Descriptive Geometry	30	5
4	912	Strength of Materials	53	8
5	409	Hydrology and Hydraulics	23	2
6	913	Structural Mechanics	60	10
7	337	Road and Track Geometry	23	3
8	408	Computer-aided Design and Construction Management	30	5
9	419	Engineering Geology	23	3
10	404	Reinforced Concrete and Reinforced Concrete Structures	53	7
11	427	Reinforced Concrete and Reinforced Concrete Structures - make a project	0	2
12	411	Steel and Wood Constructions	23	4
13	318	Urban Planning, Traffic and Streets	23	4
14	416	Reinforced Concrete Bridges	53	8
15	431	Maintenance and Reconstruction of Bridges	23	4
16	403	Steel Bridges	45	8
17	405	Steel Bridges - make a project	0	2
18	309	Design and Construction of Railway Track	53	7
19	338	Superstructure and Maintenance of Railway Track	60	7
20	341	Maintenance of Roads	30	5
21	342	Design and Construction of Roads	53	7
22	339	Design and Construction of Railway Track - make a project	0	2
23	340	Design and Construction of Roads - make a project	0	2
24	831	Selected Topics in Mathematics	30	5
25	935	Theory of Elasticity, Dynamics and Stability of Structures	45	7
26	432	Computer-aided Structural Design	30	5
27	937	Railway Vehicle/Track Interaction	23	3
28	331	Airdromes	23	4
29	330	Junctions	38	6
30	335	Design and Reconstruction of Road	38	5
31	370	Design and Reconstruction of Railway Tracks and Stations	30	5
32	315	Special Railways	23	3
33	332	Metro Systems	30	5
34	322	Urban Track	30	5

35	433	Advanced Research, Design and Technologies	38	7
<i>Elective courses</i>				
<i>Optional courses</i>				