

"Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Telecommunications and Signalling

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	1114	Physics	90	7
3	821	Informatics	90	7
4	721	Political Science	45	3
5	914	Applied Mechanics	75	6
6	812	Mathematics part II	75	7
7	1210	Chemistry	45	4
8	715	Foreign Language - English, German, French, Russian	90	6
9	702	Economics	60	4
10	1101	Theoretical Electrical Engineering part I	105	9
11	815	Mathematics part III	60	6
12	1102	Theoretical Electrical Engineering part II	60	6
13	1104	Electrical Measurements	75	5
14	1006	Fundamentals of Machine Design	90	7
15	501	Semiconductor Elements	90	6
16	817	Mathematics part IV	45	3
17	502	Digital and Microprocessor Systems	90	7
18	503	Analogue and Digital Systems	90	6
19	504	Analogue and Digital Systems - make a project	0	2
20	505	Telecommunication Circuits and Signal Theory	105	8
21	506	Information and Security Equipment	45	4
23	507	Power Supply Equipment	75	6
24	508	Automatics and Telemechanics Theory	105	8
25	509	Information Processes Theory	60	5
26	510	Optoelectronics Theory	60	4
27	511	Computer Systems	75	7
28	512	Radio Communications	90	6
29	513	Data Transmission and Processing	75	6
30	514	Reliability and Safety Theory	60	4
31	515	Switching and Multiplex Equipment	75	6
32	516	Automatic Traffic Control	105	8
33	517	Automatic Traffic Control - make a project	0	2
34	518	Design and Technology of Telecommunications and Signalling	75	6
35	519	Audio&Video Terminals and Office Equipment	75	6
36	520	Interlocking and Signalling Systems	105	8
37	521	Interlocking and Signalling Systems - make a project	0	2
38	522	Remote Control Systems and Management in Transport	60	4

39	523	Computer-aided Modelling and Simulation	60	4
40	524	Measuring, Control and Diagnostics	105	12
	1223	Thermal Treatment	8	0
	1226	Electro-mechanical Locksmith	15	0
	1222	Welding	8	0
	1221	Casting	8	0
	719	Physical Education and Sports	0	0
	1225	Turnery	11	0
	1224	Locksmith	10	0
<i>Elective courses</i>				
	526	Mobile Telecommunications	60	9
	527	Terminal Interfaces and Protocols	60	9
	550	Intelligent Systems for Security and Protection	60	9
	525	Local and Global Networks	60	9
<i>Optional courses</i>				
	530	Operation of Telecommunication and Signalling Equipment in Railway Transport	90	6
	529	Regulations in Railway Transport	60	4