

"Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Telecommunications and Signalling

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	1114	Physics	45	7
3	821	Informatics	45	7
4	721	Political Science	23	3
5	914	Applied Mechanics	38	6
6	812	Mathematics part II	38	7
7	1210	Chemistry	23	4
8	715	Foreign Language - English, German, French, Russian	45	6
9	702	Economics	30	4
10	1101	Theoretical Electrical Engineering part I	53	9
11	815	Mathematics part III	30	6
12	1102	Theoretical Electrical Engineering part II	30	6
13	1104	Electrical Measurements	38	5
14	1006	Fundamentals of Machine Design	45	7
15	501	Semiconductor Elements	45	6
16	817	Mathematics part IV	23	3
17	502	Digital and Microprocessor Systems	45	7
18	503	Analogue and Digital Systems	45	6
19	504	Analogue and Digital Systems - make a project	0	2
20	505	Telecommunication Circuits and Signal Theory	53	8
21	506	Information and Security Equipment	23	4
22	507	Power Supply Equipment	38	6
23	508	Automatics and Telemechanics Theory	53	8
24	509	Information Processes Theory	30	5
25	510	Optoelectronics Theory	30	4
26	511	Computer Systems	38	7
27	512	Radio Communications	45	6
28	513	Data Transmission and Processing	38	6
29	514	Reliability and Safety Theory	30	4
30	515	Switching and Multiplex Equipment	23	4
31	516	Automatic Traffic Control	53	8
32	517	Automatic Traffic Control - make a project	0	2
33	518	Design and Technology of Telecommunications and Signalling	38	6
34	519	Audio&Video Terminals and Office Equipment	38	6
35	520	Interlocking and Signalling Systems	53	8
36	521	Interlocking and Signalling Systems - make a project	0	2
37	522	Remote Control Systems and Management in Transport	30	4

38	523	Computer-aided Modelling and Simulation	30	4
39	524	Measuring, Control and Diagnostics	53	12
<i>Elective courses</i>				
	526	Mobile Telecommunications	30	9
	527	Terminal Interfaces and Protocols	30	9
	550	Intelligent Systems for Security and Protection	30	5
	525	Local and Global Networks	30	9
<i>Optional courses</i>				
	530	Operation of Telecommunication and Signalling Equipment in Railway Transport	45	6
	529	Regulations in Railway Transport	30	4