

TODOR KABLESHKOV UNIVERSITY OF TRANSPORT

FACULTY OF TELECOMMUNICATIONS AND ELECTRICAL EQUIPMENT IN TRANSPORT

Programme: **Telecommunications and Signalling**

Degree: **Bachelor**

Professional Qualification: **Engineer in Telecommunications**

Mode of Study: **Full-time**

Duration of Study: **Four years**

№	Code	Subject	Duration	Contact Hours	ECTS Credits
1	2	3	4	5	6
		Compulsory			
1	811	Mathematics I	1S	75	7
2	1114	Physics	1S	90	7
3	821	Informatics	1S	90	7
4	721	Political Science	1S	45	3
5	914	Applied Mechanics	1S	75	6
6	812	Mathematics II	1S	75	7
7	1210	Chemistry	1S	45	4
8	715	Foreign Language	1S	90	6
9	702	Economics	1S	60	4
10	1101	Theoretical Electrical Engineering I	1S	105	9
11	815	Mathematics III	1S	60	6
12	1102	Theoretical Electrical Engineering II	1S	60	6
13	1104	Electrical Measurements	1S	75	5
14	1006	Fundamentals of Machine Design	1S	90	7
15	501	Semiconductor Elements	1S	90	6
16	817	Mathematics IV	1S	45	3
17	502	Digital and Microprocessor Systems	1S	90	7
18	503	Analogue and Digital Systems	1S	90	6
19	504	Project in Analogue and Digital Systems	1S		2
20	505	Telecommunication Circuits and Signal Theory	1S	105	8
21	506	Information and Security Equipment	1S	45	4
22	507	Power Supply Equipment	1S	75	6
23	508	Automatics and Telemechanics Theory	1S	105	8
24	509	Information Theory	1S	60	5
25	510	Optoelectronics Theory	1S	60	4
26	511	Computer Systems	1S	75	7
27	512	Radio Communications	1S	90	6
28	513	Data Transmission and Processing	1S	45	4
29	514	Reliability and Safety Theory	1S	60	4
30	515	Switching and Multiplex Equipment	1S	75	6
31	516	Automatic Traffic Control	1S	105	8
32	517	Project in Automatic Traffic Control	1S		2
33	518	Design and Technology of Telecommunications and Signalling	1S	75	6
34	519	Audio&Video Terminals and Office Equipment	1S	75	6
35	520	Interlocking and Signalling Systems	1S	105	8
36	521	Project in Interlocking and Signalling Systems	1S		2
37	522	Remote Control Systems and Management in Transport	1S	60	4
38	523	Computer Aided Modelling and Simulation	1S	60	4
39	524	Measuring, Control and Diagnostics	1S	105	12
40	719	Physical Education and Sports	4S	120	
		Elective			
41.1	526	Mobile Telecommunications	1S	60	9
41.2	525	Local and Global Networks	1S	60	9
42.1	528	Telecommunication Networks and Teletraffic	1S	60	9

42.2	527	Terminal Interfaces and Protocols	1S	60	9
		Optional			
43	529	Regulations in Railway Transport	1S	60	4
44	530	Operation of Telecommunication and Signalling Equipment in Railway Transport	1S	90	6
		Practical Training			
45		Practical Training in Material Processing	2W	60	2
46		Internship	4W	120	4
		State Examination			10

S - Semester

W - Week