

# "Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Telecommunications and Signalling

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

Mode of study: Part time

Duration of study: 2.5 years

No	Code	Course	Total contact hours (Hours of lectures and seminars)	ECTS credits
<i>Compulsory courses</i>				
1	1102	Theoretical Electrical Engineering part II	38	5
2	111	Management Information Systems	31	5
3	508	Automatics and Telemechanics Theory	38	7
4	520	Interlocking and Signalling Systems	38	6
5	521	Interlocking and Signalling Systems - make a project	0	3
6	552	Computer Systems and Architectures	38	7
7	560	Rolling Stock Positioning and Management	23	3
8	5100	Automatic Traffic Control	38	7
9	517	Automatic Traffic Control - make a project	0	3
10	564	Measurement, Control and Diagnostics of Computer and Communication Systems	38	6
11	5101	Insurance systems in rail transport	38	6
12	535	Electromagnetic Compatibility (EMC)	38	6
13	5104	Intelligent systems for managing scattered objects	38	6
14	546	Mobile Internet	38	6
15	547	Broadband Mobile Telecommunications	38	6
16	538	Vehicles Automated Control	30	5
17	5102	Next generation communication networks	30	5
18	540	Cryptography and Telecommunication Networks Protection	38	5
19	548	Risk Analysis and Management	30	5
20	5103	Radio navigation systems	30	5
21	542	Information Technologies	30	5
	815	Mathematics part III	0	0
<i>Elective courses</i>				
22.1	526	Mobile Telecommunications	30	4
22.2	562	Sensors and Personal Wireless Networks	30	4
23.1	527	Terminal Interfaces and Protocols	30	4
23.2	565	Computer-based on-board Safety Systems	30	4
<i>Optional courses</i>				