

"Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Electric Power Engineering and Electrical Equipment

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	1302	High Voltage Technique	38	5
2	1102	Theoretical Electrical Engineering part II	38	5
3	1372	Operation Modes of Electric Power Systems	37	5
4	1356	Electric Transport	30	4
5	1310	Traction and Energy Calculation	30	5
6	1330	Design of Installation for Electricity Supply and Electrical Equipment	23	3
7	1374	Design of Installation for Electricity Supply and Electrical Equipment- Course Project	0	3
8	1321	Electrical Equipment in Power Plants and Substations	30	5
9	1329	Relay Protection	30	5
10	1344	Systems for Automatic Control	30	5
11	13167	Diagnostics and Electrical Equipment Testing	30	5
12	13200	Electronic converters in energy and transport	38	5
13	1377	Engineering Research and Design	38	5
14	13201	Electromagnetic compatibility in industry and transport	38	5
15	13202	Energy efficient electric drives	45	6
16	1361	High-efficiency Energy-saving Devices and Technologies	30	6
17	13203	Transients in electrical systems in transport	38	5
18	13204	Energy efficient electric drives - course project	0	3
19	13205	Information systems in energy and transport	38	6
20	1367	Reliability of the Electric Transport Systems	38	6
21	1366	High speed Electric Transport	30	4
22	13	Internship	0	4
	31	Development of a diploma thesis	0	11
	815	Mathematics part III	0	0
<i>Elective courses</i>				
23.1	1325	Current Collection in Electric Transport Vehicles	30	5
23.2	13166	Lighting and Installation Equipment	30	5
24.1	13207	Computer simulation modeling and optimization of electrical systems in transport	45	8
24.2	13206	Systems for automated design of power supply and electrical equipment	45	8
25.1	13209	Modern systems for measurement, control, management and protection in electric transport	38	6
25.2	13208	Systems for monitoring and energy efficient management of electrical equipment	38	6
<i>Optional courses</i>				