

"Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Electric Power Engineering and Electrical Equipment

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	1006	Fundamentals of Machine Design and Construction	90	6
14	1104	Electrical Measurements	75	6
15	1308	Electrical Supply	90	6
16	1301	Safety Rules and Ecology	45	3
17	1302	High Voltage Technique	105	8
18	1309	Power Electronics	75	6
19	246	Heat Engineering and Heat Power Engineering	45	3
20	1305	Electrical Power Networks and Systems	105	7
21	1373	Electrical Power Networks and Systems - Course Project	0	3
23	1303	Electrical Machines	90	6
24	1304	Electrical Apparatuses	90	7
25	1372	Operation Modes of Electric Power Systems	90	7
26	1310	Traction and Energy Calculation	60	4
27	1443	Management of Energy Systems in Transport	45	3
28	1368	Electrical Machines- Course Project	0	3
29	1329	Relay Protection	60	5
30	1306	Electrical Part of Electric Power Plants	90	6
31	1307	Electrical Equipment	90	6
32	1344	Systems for Automatic Control	75	6
33	1349	Testing of Transport Electrical Equipment	60	4
34	1369	Electrical Equipment - Course Project	0	3
35	1328	Electrical Drives	90	10
36	1330	Design of Installation for Electricity Supply and Electrical Equipment	45	6
37	1374	Design of Installation for Electricity Supply and Electrical Equipment- Course Project	0	4

38	1331	Contemporary Trends of Electric Transport Development	60	10
39	1325	Current Collection in Electric Transport Vehicles	60	10
	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>				
	1333	Stationary Electrical Installations	90	10
	1357	Control and Protection of Electric Transport Vehicles	105	10
	1334	Control and Protection of Stationary Electrical Installations	105	10
	1356	Electric Transport	90	10
<i>Optional courses</i>				
	1335	Norms for Railway Transport	60	6
	141	Technical Operation and Traffic Safety in Railway Transport	60	6
	1336	Technical Operation and Traffic Safety in Urban Electrical Transport	60	6
	1337	Structure and Control Systems of Stationary Electrical Installations	90	6
	1338	Structure and Control Systems of Electric Locomotives	90	6
	1355	Operation of Urban Electric Transport Vehicles	75	5
	1352	Maintenance and Repair of Stationary Electrical Installations	75	5
	223	Train Brakes	75	5
	1353	Brake Systems of Urban Electric Transport Vehicles	75	5
	1354	Operation of Stationary Electrical Installations	75	5
	1345	Operation of Electric Locomotives	75	5
	1339	Structure and Control Systems of Urban Electric Transport Vehicles	90	6