

"Todor Kableshkov" University of Transport

Faculty: Telecommunications and Electrical Equipment in Transport

Programme: Electric Vehicles (non-specialists)

Degree: Master's Degree for Graduates with Bachelor's or Master's 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	1117	Theoretical Electrical Engineering	30	5
2	1110	Electrical and Electronic Measurements	38	5
3	1398	Electromechanical Devices	30	4
4	1308	Electrical Supply	30	4
5	13197	Electrotechnical materials	30	4
6	13173	Electricity supply systems for electric vehicles	30	5
7	13122	Electromechanical Devices - make a project	0	3
8	13174	Electromotive electric drive	38	5
9	13176	Autonomous power supply for electric vehicles	23	4
10	13177	Traction and energy calculations for electric vehicles	30	5
11	13180	Diagnostics and testing of electric vehicles	30	5
12	13183	Modern tendencies in the development of electric mobility	23	3
13	13178	Design of charging equipment and electrical equipment of electric vehicles	30	5
14	13179	Design of charging facilities and electrical equipment of electric vehicles - course project	0	3
15	1386	Electric Car Engineering Research and Design	38	6
16	13212	Power and auxiliary circuits of electric cars	45	7
17	13201	Electromagnetic compatibility in industry and transport	38	5
18	1392	Electric Car Propulsion and Break Systems	38	5
19	1394	Electric Vehicle Charging Stations	30	4
20	13213	Modeling and simulation of electrical systems for electric vehicles	38	6
21	13214	Control and protection systems for electric vehicles	38	7
22	1389	Safety and Ecology	23	3
23	1395	Electric Car Marketing and Sales	23	3
24	13215	Reliability of electric cars	38	6
25	13	Internship	0	4
<i>Elective courses</i>				
26.1	13216	Course design - traction and braking systems of electric vehicles	0	3
26.2	13217	Course project - Charging stations for electric cars	0	3
27.1	13218	Charging infrastructure design	30	5
27.1	13219	Design of control systems and protection of electric vehicles	30	5
<i>Optional courses</i>				