

COURSE CATALOG – ELECTRICAL ENGINEERING

Type of Study: Undergraduate professional study

Semesters: 6

ECTS: 180

	Code	Course	Student workload (L + S + T)	ECTS credits
1st semester (Winter)	285394	Physics *	30 0 45	6.0
	285395	Mathematics I	45 0 45	6.0
	285396	Fundamentals of Electrical Engineering I	30 0 30	5.0
	285397	Programming and Algorithms*	30 0 30	5.0
	285399	Work Safety and Protection	15 0 15	2.0
	285400	Social and communication skills	15 15 0	2.0
	285398	Technical Documentation	15 10 20	4.0
2nd semester (Summer)	285403	Databases	30 10 20	5.0
	285405	Engineering methods and statistics *	30 0 30	5.0
	285401	Mathematics II	45 0 45	6.0
	285406	Electrical Measurements	15 10 20	4.0
	285402	Fundamentals of Electrical Engineering II	30 0 30	5.0
	285404	Computer communications and networks*	30 10 20	5.0
3rd semester (Winter)	129710	Databases and SQL	30 0 30	5.0
	129711	Electronic Elements	30 0 30	5.0
	129712	Electrical Measurements	30 0 30	5.0
	129713	Modelling and Simulation	30 0 30	5.0
	129714	Computer Structure	30 0 30	5.0
	129716	Mobile Applications *	30 0 15	3.0
	129717	Switching Devices	30 0 15	3.0
	129719	Choice from other HEI – 3rd semester *	30 0 15	3.0
4th semester (Summer)	129722	Digital Electronics	30 0 30	5.0
	129724	Electronic Circuits	30 0 30	5.0
	129727	Signals and Systems	30 0 30	5.0
	129729	Fundamentals of Entrepreneurship	15 15 0	2.0
	129731	Statistics	30 0 30	4.0
	163373	Professional Training	0 0 0	5.0
	129734	Fundamentals of Machines and Devices	30 0 15	3.0
	149938	Basics of web programming	30 0 15	3.0
	129740	Choice from other HEI 1 – 4th semester *	30 0 15	3.0
	129741	Choice from other HEI 2 – 4th semester *	30 0 15	3.0
	129743	Automation of Machines and Devices*	30 0 15	3.0
	129744	Automatic Control	30 0 30	5.0

5th semester (Winter)	129745	Distribution of Electric Energy*	30 0 30	4.0
	129747	Electrical Machines	30 0 30	5.0
	129748	Power Electronics*	30 0 30	5.0
	130098	Process Instrumentation	30 0 15	4.0
	166407	<i>Quality Assurance</i>	<i>30 0 15</i>	<i>3.0</i>
	166407	<i>Basics of robotics</i>	<i>30 10 5</i>	<i>3.0</i>
6th semester (Summer)	129762	Electromotive Drives	30 0 30	4.0
	129763	Supervision and Visualization of Technological Processes	15 0 30	4.0
	129764	PLC Control Systems*	15 0 30	3.0
	129765	Computer Networks*	30 0 30	4.0
	129767	Final Year Project	0 0 0	7.0
	129769	<i>Protection and Control in Electrical Plants*</i>	<i>30 0 15</i>	<i>3.0</i>
	129771	<i>Power Electronic Devices*</i>	<i>30 0 15</i>	<i>3.0</i>

L - LECTURES, S - SEMINARS, T – TUTORIALS

Elective courses in italic

*** Courses available in English**