

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)	129569	Physics I*	45 0 30	6.0
	129570	Mathematics I*	45 0 45	7.0
	129572	Fundamentals of Electrical Engineering I	45 0 45	7.0
	129574	Work Safety and Protection	15 0 15	2.0
	129575	Technical Documentation	15 0 30	3.0
	129577	Introduction to Computer Networks*	30 0 15	4.0
	129579	<i>Foreign Language I - English*</i>	15 0 15	2.0
2nd semester (Summer)	129583	Physics II*	45 0 30	6.0
	129585	Mathematics II*	45 0 45	7.0
	129588	Fundamentals of Electrical Engineering II	45 0 45	7.0
	129589	Programming Languages and Algorithms*	30 0 30	5.0
	129591	Social Philosophy*	15 15 0	2.0
	129593	<i>Foreign Language II - English*</i>	15 0 15	2.0
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	<i>Mobile Applications</i>	30 0 15	3.0
	129717	<i>Switching Devices</i>	30 0 15	3.0
	129719	<i>Choice from other HEI – 3rd semester</i>	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
	130106	Professional Training	0 0 0	5.0
	129734	<i>Fundamentals of Machines and Devices</i>	30 0 15	3.0
	129737	<i>Digital Signal Processing I</i>	30 0 15	3.0
	129740	<i>Choice from other HEI 1 – 4th semester</i>	30 0 15	3.0
	129741	<i>Choice from other HEI 1 – 4th semester</i>	30 0 15	3.0
5th semester (Winter)	129743	Automation of Machines and Devices *	30 0 15	3.0
	129744	Automatic Control	30 0 30	5.0
	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
	129749	<i>Industrial Maintenance*</i>	30 0 15	3.0
	129758	<i>Quality Assurance</i>	30 0 15	3.0
	129760	<i>Digital Signal Processing II</i>	30 0 15	3.0
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>	30 0 15	3.0
	129771	<i>Power Electronic Devices*</i>	30 0 15	3.0
	129773	<i>Discrete Control Systems</i>	30 0 15	3.0

L - LECTURES, S - SEMINARS, T – TUTORIALS

Elective courses in italic

*** Courses available in English**