FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING

- Please try to choose the courses from the same semester, in order to avoid timetable clashed.
- The majority of your subjects (around 3) should be from your main faculty with which your university has an agreement.
- Bachelor level students are only allowed to choose Master level subjects after receiving a permission from the professor of that subject.

Bachelor courses

Autumn

Course code	Course title	ECTS Credits	Semester
T110B401	Basics of Measurements and Metrology	6	3
T121B007	Speech Processing Fundamentals	6	7
T121B201	Signals and Systems	6	3
T125B019	Software for Engineering Calculations	6	3
T125B106	Smart Microprocessor-Based Devices and Microcontrollers	6	5, 7
T125B116	Image Processing and Recognition	6	5
T125B117	Computational Intelligence Methods	6	7
T125B155	Fundamentals of Intelligent Control Systems	6	5
T125B167	Intelligent Automation Systems and Devices	6	5
T125B168	Mobile Robots	6	7
T125B169	Project of Robotic System	6	7
T125B361	Automatic Control Theory	6	5
T140B011	Power Transmission	6	5
T140B014	Fuel Cells and Energy Storage Systems	3	7
T140B110	High Voltage Engineering of Renewable Energy Sources	6	7
T140B121	Power System Protection and Control Technology	6	7
T140B122	Digital Communication and Information Systems in Electric Power System	6	7
T140B125	Smart Electric Power Systems	6	5
T140B128	Electric Power Economics and Market	6	5, 7
T140B130	Project of Smart Energy Systems Control	6	7
T140B139	Solar Energy	3	7
T170B121	Programming of Electronic Systems	6	3
T170B158	Electronics Manufacturing Technologies	6	5
T170B202	Electronics	6	3
T190B015	Analysis of Electric Circuits 1	6	3
T190B129	Power Engineering Projects and Their Management	3	7
T190B302	Electric Drives	6	5
T190B392	Electromagnetic Field	3	5
T500B010	Work Safety	3	7

Spring

Course code	Course title	ECTS Credits	Semester
T125B001	Automatic Control Fundamentals	6	6
T125B005	Computer-Aided Machinery Control Systems	3	4
T125B150	Control Systems and Programing of Robots	6	6
T125B151	Modeling of Robotized Systems	6	6
T125B360	Programmable Logical Controllers	6	6
T140B004	Electric Power Systems and Microgrids	6	6
T140B012	Technology of Wind and Hydro Energetics	6	6
T140B109	Electrical Power Engineering	6	4
T140B111	Protective Relaying and Automation of Disturbed Generation Systems	6	6
T140B126	Relay Protection and Automation 2	6	6
T140B138	Basics of Numerical Simulation Methods	6	4
T140B457	High Voltage Engineering	6	6
T140B468	Electrical Networks	6	6
T170B142	Energy Systems Electronics	6	4
T170B151	Fundamentals of Microprocessor Systems	6	4
T170B168	Fundamentals of Electrotechnics and Electronics	6	2, 4
T170B176	Circuit Theory	6	2
T170B303	Analogue Devices	6	4
T170B466	Applied Electronics	6	4
T190B010	Analysis of Electric Circuits 2	6	4
T190B109	Electrical Machines of Renewable Sources	6	4
T190B131	Power Electronics and Energy Converters	6	4
T190B202	Electromechanics	6	4
T190B261	Materials Science and Engineering	6	2

Master courses

Autumn

Course code	Course title	ECTS Credits	Semester
B140M009	Ultrasonic Medical Diagnostics	6	3
B140M102	Imaging Instruments and Methods in Medicine	6	3
B140M107	Design of Biomedical Devices	6	3
T110M007	Innovative Measuring Systems	6	3
T110M501	Measurements Transducers and Sensors	6	3
T125M123	Programmable Logical Controllers	6	3
T125M159	Robotics Project	9	3
T125M160	Computer Vision Systems in Robotics	6	3
T140M100	Electrical Equipment Testing and Fault Diagnostics Methods	6	3
T140M263	Digital Relay Protection and Automation Devices	6	3
T170M613	Multiphysics Modelling for Electronics Design	6	3
T170M014	Testing of Electronic Systems	6	3
T270M873	Modern Environmental and Technology Management	3	3
T500M112	Workers Safety and Health	6	3

Spring

Course code	Course title	ECTS Credits	Semester
B110M002	Digital Processing of Biomedical Signals	6	2
B140M106	Biomedical Technology Management	6	2
T110M107	Embedded Systems Design	6	2
T111M100	Biomedical Image Processing and Analysis	6	2
T121M001	Digital Signal Processing in Real-Time Systems	6	2
T121M161	Digital Wireless Technologies	6	2
T125M139	Control Systems of Technological Equipment, their Reliability and Diagnostics	9	2
T125M157	Application of Artificial Intelligence in Robotics and their Systems Control	6	2
T125M158	Control Systems Communications and Cyber Security	6	2
T125M262	Computer-Aided Control of Technological Equipment	6	2
T140M163	Reliability and Quality of Power Systems	6	2
T140M164	Experimental Investigation of Electric Power Systems	6	2
T140M165	Power System Planning	6	2
T180M111	Smart Mobile Communication Networks and Applications	6	2
T190M001	Energy Conversion Technologies of Renewable Energy Sources	6	2
T500M109	Human-Computer Interaction	6	2