

FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING

- COURSES of the DEPARTMENT OF AUTOMATION
- COURSES of the DEPARTMENT OF ELECTRONICS ENGINEERING
- COURSES of the DEPARTMENT OF ELECTRIC AND POWER SYSTEMS
- COURSES of the PROJECTS and PRACTICE

DEPARTMENT OF AUTOMATION

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T125B468	Analysis and Reliability of Technical Systems	3	autumn
T125B117	Computational Intelligence Methods	6	autumn
T121B007	Speech Processing Fundamentals	6	autumn
T125B168	Mobile Robots	6	autumn
T125B361	Automatic Control Theory	6	autumn
T125B116	Image Processing and Recognition	6	autumn
T125B167	Intelligent Automation Systems and Devices	6	autumn
T190B302	Electric Drives	6	autumn
T125B155	Fundamentals of Intelligent Control Systems	6	autumn
T125B019	Software for Engineering Calculations	6	autumn
T125B169	Project of Robotic System	6	autumn
T125B150	Control Systems and Programing of Robots	6	spring
T125B151	Modeling of Robotized Systems	6	spring
T125B360	Programmable Logical Controllers	6	spring
Master's level courses			
T125M003	*Systems Modelling and Identification	6	autumn
T125M165	*Digital Control Systems	6	autumn
T125M161	*Information Technologies for Control Systems	6	autumn
T125M119	Programmable Process Control Systems	6	autumn
T125M014	Modern Automatic Control Theory	6	autumn
T125M105	Process Optimization and Optimal Control	6	autumn
T12M123	*Programmable Logical Controllers	6	autumn
T125M021	*Modelling and Control of Biotechnological Processes	3	autumn
T270M873	*Modern Environmental and Technology Management	3	autumn
T125M008	Industrial Communication Networks	6	spring
T125M262	Computer-Aided Control of Technological Equipment	6	spring
T125M137	Hybrid Systems for Process Monitoring and Control	9	spring

*Courses will be available if only the group of students will be formed.

DEPARTMENT OF ELECTRONICS ENGINEERING

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T110B401	Basics of Measurements and Metrology	6	autumn

T121B201	Signals and Systems 1	6	autumn
T170B121	Programming of Electronic Systems	6	autumn
T170B202	Electronics	6	autumn
T170B402	Sensors	6	autumn
T170B158	Electronics Manufacturing Technologies	6	autumn
T170B176	Circuit Theory	6	spring
T170B151	Fundamentals of Microprocessor Systems	6	spring
T190B261	Materials Science and Engineering	6	spring
T170B303	Analogue Devices	6	spring
Master's level courses			
B140M009	Ultrasonic Medical Diagnostics	6	autumn
T121M501	*Digital Signal Processing and Machine Learning	6	autumn
B115M001	*Experimental Biomechanics	6	autumn
B470M101	*Systems of Human Physiology	6	autumn
T170M513	*Reliability and Certification of Electronic Devices	6	autumn
B140M107	Design of Biomedical Devices	6	autumn
T110M009	Measurement of Non-Electrical Quantities	6	autumn
T110M007	Innovative Measuring Systems	6	autumn
T170M014	Testing of Electronic Systems	6	autumn
T170M613	Multiphysics Modelling for Electronics Design	6	autumn
B140M008	*Methodology of Biomedical Engineering	6	autumn
B140M102	Imaging Instruments and Methods in Medicine	6	autumn
T111M100	Biomedical Image Processing and Analysis	6	spring
T110M107	Embedded Systems Design	6	spring
T121M161	Digital Wireless Technologies	6	spring
B110M002	Digital Processing of Biomedical Signals	6	spring
B140M106	Biomedical Technology Management	6	spring

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DEPARTMENT OF ELECTRIC POWER SYSTEMS

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T190B392	Electromagnetic Field	3	autumn
T140B352	Power System Transients	6	autumn
T190B137	Electrical Transport Systems	3	autumn
T170B352	Power Electronics	6	autumn
T140B014	Fuel Cells and Energy Storage Systems	3	autumn
T140B139	Solar Energy	3	autumn
T140B128	Electric Power Economics and Market	6	autumn
T140B110	High Voltage Engineering of Renewable Energy Sources	6	autumn
T190B015	Analysis of Electric Circuits 1	6	autumn
T500B010	Work Safety	3	autumn
T140B130	Project of Smart Energy Systems Control	6	autumn
T140B011	Power Transmission	6	autumn
T140B125	Smart Electric Power Systems	6	autumn
T125B106	Smart Microprocessor Based Systems	6	autumn
T190B202	Electromechanics	6	spring
T190B010	Analysis of Electric Circuits 2	6	spring
T170B466	Applied Electronics	6	spring
T190B131	Power Electronics and Energy Converters	6	spring
T140B109	Electrical Power Engineering	6	spring
T170B142	Energy Systems Electronics	6	spring
T190B109	Electrical Machines of Renewable Sources	6	spring
T140B012	Technology of Wind and Hydro Energetics	6	spring
T140B111	Protective Relaying and Automation of Disturbed Generation Systems	6	spring

T140B468	Electrical Networks	6	spring
T140B138	Basics of Numerical Simulation Methods	6	spring
T140B457	High Voltage Engineering	6	spring
T140B004	Electric Power Systems and Microprocessors	6	spring
T190B370	Lighting Engineering	3	spring
Master level courses			
P176M001	*Artificial Intelligence in Smart Grids	6	autumn
T140M122	*Cybernetic Security of Power Systems	6	autumn
T140M261	*Power Systems Operation and Control	6	autumn
T500M112	*Workers Safety and Health	6	autumn
T140M007	*Financial and Economic Analysis of Energy	6	autumn
T500M109	Human-Computer Interaction	6	spring
T140M165	Power System Planning	6	spring
T140M125	Markets of Energy Resources	6	spring
T140M163	Reliability and Quality of Power Systems	6	spring

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