

**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 POWER SYSTEMS

DEPARTMENT OF AUTOMATION

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T125B003	Automatic Control of Electromechanical Systems	6	autumn
T125B001	Automatic Control Fundamentals	6	spring
T125B477	Electromechanical Energy Conversion	3	spring
T190B302	Electric Drives	6	spring
Master's level courses			
T125M003	Systems Modelling and Identification	6	autumn
T125M165	Digital Control Systems	6	autumn
T125M123	Programmable Logical Controllers	6	autumn
T125M125	Robotics	6	autumn
T125M008	Industrial Communication Networks	6	spring
T125M262	Computer-aided Control of Technological Equipment	6	spring

DEPARTMENT OF ELECTRONICS ENGINEERING

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T190B263	Circuit Theory 2	6	autumn
T121B002	Signal Transmission and Reception	6	autumn
T170B155	Sensor Network	6	autumn
T180B105	Object Programming in Telecommunications	6	autumn
T170B202	Electronics	6	autumn
T170B129	Basics of Biomedical Engineering	6	autumn
T110B401	Basics of Measurements and Metrology	6	autumn
T170B301	Digital Devices	6	spring
T121B201	Signals and Systems 1	6	spring
T180B107	Optical Communication Networks	6	spring
T121B106	Discrete Time Signal Processing	6	spring
T110B002	Graphical Programming	6	spring
T170B153	Electronics and Microprocessors	3	spring
T170B204	Fundamentals of Electronics	6	spring
T190B014	Circuit Theory 1	6	spring
T170B303	Analogue Devices	6	spring

T170B159	Applied Electrodynamics	6	spring
Master's level courses			
T180M111	Smart Mobile Communication Networks and Applications	6	autumn
T180M122	Telecommunications and Navigation	6	autumn
T121M501	Digital Signal Processing	6	autumn
T170M026	Experiment Methodology and Planning	6	autumn
T110M007	Measurement of Electrical Quantities	6	autumn
T110M107	Embedded Systems Design	6	spring
T110M111	Experimental Techniques and Non-destructive Testing	6	spring
T111M100	Biomedical Image Processing and Analysis	6	spring
T121M161	Digital Signal Processing in Embedded Wireless	6	spring
T170M513	Reliability and Failure Processes of Electronic Devices	6	spring
T180M123	Management and Security of Unmanned Aircraft Systems	6	spring

DEPARTMENT OF ELECTRIC POWER SYSTEMS

Course code	Course title	ECTS Credits	Semester
Bachelor's level courses			
T190B373	Applied Electrical Engineering	3	autumn
T500B002	Human Safety	3	autumn/spring
T190B394	Theoretical Fundamentals of Electric Engineering	6	autumn
T190B270	Electrical and Electronic Circuits	6	spring
T190B202	Electromechanics	6	spring
Master's level courses			
T190M100	Engineering Electrodynamics	6	autumn
T190M010	Numerical Methods in Electromagnetic Field Theory	6	autumn
T190M001	Energy Conversion Technologies of Renewable Energy Sources	6	spring
T140M165	Power System Planning	6	spring
T111M165	Image Analysis and Recognition	6	spring
T140M163	Reliability and Quality of Power Systems	6	spring
T140M164	Experimental Investigation of Electric Power Systems	6	spring
T500M109	Human-Computer Interaction	6	spring