

**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
- COURSES of the PROJECTS and PRACTICE

**DEPARTMENT OF AUTOMATION**

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">T125B468</a>	Analysis and Reliability of Technical Systems	3	autumn
<a href="#">T125B117</a>	Computational Intelligence Methods	6	autumn
<a href="#">T121B007</a>	Speech Processing Fundamentals	6	autumn
<a href="#">T125B168</a>	Mobile Robots	6	autumn
<a href="#">T125B361</a>	Automatic Control Theory	6	autumn
<a href="#">T125B116</a>	Image Processing and Recognition	6	autumn
<a href="#">T125B167</a>	Intelligent Automation Systems and Devices	6	autumn
<a href="#">T190B302</a>	Electric Drives	6	autumn
<a href="#">T125B155</a>	Fundamentals of Intelligent Control Systems	6	autumn
<a href="#">T125B019</a>	Software for Engineering Calculations	6	autumn
<a href="#">T125B147</a>	Kinematics, Statics and Dynamics of Robots	6	autumn
<a href="#">T125B169</a>	Project of Robotic System	6	autumn
<a href="#">T125B150</a>	Control Systems and Programing of Robots	6	spring
<a href="#">T125B151</a>	Modeling of Robotized Systems	6	spring
<a href="#">T125B360</a>	Programmable Logical Controllers	6	spring
<b>Master's level courses</b>			
<a href="#">T125M003</a>	Systems Modelling and Identification	6	autumn
<a href="#">T125M165</a>	Digital Control Systems	6	autumn
<a href="#">T125M009</a>	Signal Processing in Control Systems	6	autumn
<a href="#">T125M161</a>	Information Technologies for Control Systems	6	autumn
<a href="#">T125M119</a>	Programmable Process Control Systems	6	autumn
<a href="#">T125M105</a>	Process Optimization and Optimal Control	6	autumn
<a href="#">T12M123</a>	Programmable Logical Controllers	6	autumn
<a href="#">T125M021</a>	Modelling and Control of Biotechnological Processes	6	autumn
<a href="#">T270M873</a>	Modern Environmental and Technology Management	6	autumn
<a href="#">T125M008</a>	Industrial Communication Networks	6	spring
<a href="#">T125M262</a>	Computer-Aided Control of Technological Equipment	6	spring

**DEPARTMENT OF ELECTRONICS ENGINEERING**

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">T110B401</a>	Basics of Measurements and Metrology	6	autumn
<a href="#">T121B201</a>	Signals and Systems 1	6	autumn
<a href="#">T170B121</a>	Programming of Electronic Systems	6	autumn
<a href="#">T170B402</a>	Sensors	6	autumn

<a href="#">T170B202</a>	Electronics	6	autumn
<a href="#">T170B158</a>	Electronics Manufacturing Technologies	6	autumn
<a href="#">T190B014</a>	Circuit Theory 1	6	spring
<a href="#">T170B151</a>	Fundamentals of Digital and Microprocessor Systems	6	spring
<a href="#">T170B303</a>	Analogue Devices	6	spring
<b>Master's level courses</b>			
<a href="#">B110M001</a>	Medical Informatics Systems	6	autumn
<a href="#">T170M100</a>	Electronics Projects Management	6	autumn
<a href="#">B140M009</a>	Ultrasonic Medical Diagnostics	6	autumn
<a href="#">T121M501</a>	Digital Signal Processing and Machine Learning	6	autumn
<a href="#">T180M112</a>	Electronic and Cyber Security and Protection	6	autumn
<a href="#">T111M100</a>	Biomedical Image Processing and Analysis	6	autumn
<a href="#">B115M001</a>	Experimental Biomechanics	6	autumn
<a href="#">B470M101</a>	Systems of Human Physiology	6	autumn
<a href="#">T170M513</a>	Reliability and Certification of Electronic Devices	6	autumn
<a href="#">B140M107</a>	Design of Biomedical Devices	6	autumn
<a href="#">T110M007</a>	Inovative Measuring Systems	6	autumn
<a href="#">T110M501</a>	Measurements Transducers and Sensors	6	autumn
<a href="#">T170M014</a>	Testing of Electronic Systems	6	autumn
<a href="#">T170M613</a>	Multiphysics Modelling for Electronics Design	6	autumn
<a href="#">T180M111</a>	Smart Mobile Communication Networks and Applications	6	spring
<a href="#">T170M012</a>	Advanced Digital Systems Design	6	spring
<a href="#">B140M106</a>	Biomedical Technology Management	6	spring

## DEPARTMENT OF ELECTRIC POWER SYSTEMS

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">T140B014</a>	Fuel Cells and Energy Storage Systems	3	autumn
<a href="#">T140B139</a>	Solar Energy	3	autumn
<a href="#">T140B128</a>	Electric Power Economics and Market	6	autumn
<a href="#">T140B110</a>	High Voltage Engineering of Renewable Energy Sources	6	autumn
<a href="#">T190B015</a>	Analysis of Electric Circuits 1	6	autumn
<a href="#">T500B010</a>	Human Safety	3	autumn
<a href="#">T140B130</a>	Project of Smart Energy Systems Control	6	autumn
<a href="#">T140B011</a>	Power Transmission	6	autumn
<a href="#">T140B125</a>	Smart Electric Power Systems	6	autumn
<a href="#">T190B202</a>	Electromechanics	6	spring
<a href="#">T190B010</a>	Analysis of Electric Circuits 2	6	spring
<a href="#">T170B466</a>	Applied Electronics	6	spring
<a href="#">T190B131</a>	Power Electronics and Energy Converters	6	spring
<a href="#">T140B109</a>	Electrical Power Engineering	6	spring
<a href="#">T170B142</a>	Energy Systems Electronics	6	spring
<a href="#">T190B109</a>	Electrical Machines of Renewable Sources	6	spring
<b>Master level courses</b>			
<a href="#">T500M109</a>	Human-Computer Interaction	6	spring

**PROJECT and PRACTICE\***

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">PR00B143</a>	Additional Practice	12	autumn/spring
<a href="#">PR00B203</a>	Additional Practice	18	autumn/spring
<a href="#">PR00B144</a>	Additional Practice	24	autumn/spring
<a href="#">PR00B140</a>	Project	12	autumn/spring
<a href="#">PR00B141</a>	Project	18	autumn/spring
<a href="#">PR00B113</a>	Project	24	autumn/spring
<b>Master's level courses</b>			
<a href="#">PR00M100</a>	Additional Practice	12	autumn/spring
<a href="#">PR00M116</a>	Additional Practice	18	autumn/spring
<a href="#">PR00M114</a>	Project	18	autumn/spring
<a href="#">PR00M115</a>	Project	24	autumn/spring

\*it is necessary to coordinate with the Faculty of Electrical and Electronics Engineering before choosing a practice or project module, subject and supervisor.