

**FACULTY  
OF  
ELECTRICAL  
AND  
ELECTRONICS  
ENGINEERING**

▪ **DISCRETE COURSES**

**Master's degree programme  
CONTROL TECHNOLOGIES**

1<sup>st</sup> semester

Course code	Course title	ECTS Credits
<a href="#">T125M003</a>	Systems Modelling and Identification	6
<a href="#">T125M165</a>	Digital Control Systems	6

2<sup>nd</sup> semester

<a href="#">T125M008</a>	Industrial Communication Networks	6
<a href="#">T125M262</a>	Computer-aided Control of Technological Equipment	6

3<sup>rd</sup> semester

<a href="#">T125M105</a>	Process Optimization and Optimal Control	6
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**Master's degree programme  
SMART TELECOMMUNICATION TECHNOLOGIES**

1<sup>st</sup> semester

Course code	Course title	ECTS Credits
<a href="#">T180M112</a>	Electronic and Cyber Security and Protection	6
<a href="#">T180M111</a>	Smart Mobile Communication Networks and Applications	6

2<sup>nd</sup> semester

<a href="#">T180M118</a>	Internet of Things and Services for Smart Environments	6
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Electives

Course code	Course title	ECTS Credits	Semester
<a href="#">T180M114</a>	Fiber-Optic Communication Systems	6	autumn
<a href="#">T180M109</a>	Open Programmable Telecommunication Systems	6	autumn
<a href="#">T180M116</a>	Reliability of Informations Systems	6	autumn

**DISCRETE COURSES**

Course code	Course title	ECTS Credits	Semester
<b>Bachelor's level courses</b>			
<a href="#">T190B373</a>	Applied Electrical Engineering	3	autumn
<a href="#">T125B003</a>	Automatic Control of Electromechanical Systems	6	autumn
<a href="#">T190B263</a>	Circuit Theory 2	6	autumn
<a href="#">T170B301</a>	Digital Devices	6	autumn
<a href="#">T500B002</a>	Human Safety	3	autumn/spring
<a href="#">T121B002</a>	Signal Transmission and Reception	6	autumn
<a href="#">T170B155</a>	Sensor Network	6	autumn
<a href="#">T121B201</a>	Signals and Systems 1	6	autumn
<a href="#">T190B394</a>	Theoretical Fundamentals of Electric Engineering	6	autumn
<a href="#">T180B105</a>	Object Programming in Telecommunications	6	autumn
<a href="#">T180B107</a>	Optical Communication Networks	6	spring
<a href="#">T180B015</a>	Wireless Communication Networks	6	spring
<a href="#">T125B001</a>	Automatic Control Fundamentals	6	spring
<a href="#">T170B129</a>	Basics of Biomedical Engineering	6	spring
<a href="#">T110B401</a>	Basics of Measurements and Metrology	6	spring
<a href="#">T121B106</a>	Discrete Time Signal Processing	6	spring
<a href="#">T190B270</a>	Electrical and Electronic Circuits	6	spring
<a href="#">T125B477</a>	Electromechanical Energy Conversion	3	spring
<a href="#">T170B202</a>	Electronics	6	spring
<a href="#">T110B002</a>	Grafical Programming	6	spring
<a href="#">T170B153</a>	Electronics and Microprocessors	3	spring
<a href="#">T170B204</a>	Fundamentals of Electronics	6	spring
<b>Master's level courses</b>			
<a href="#">T190M100</a>	Engineering Electrodynamics	6	autumn
<a href="#">T190M010</a>	Numerical Methods in Electromagnetic Field Theory	6	autumn
<a href="#">T190M001</a>	Energy Conversion Technologies of Renewable Energy Sources	6	autumn
<a href="#">T111M004</a>	Machine Vision	6	autumn
<a href="#">T140M261</a>	Power Systems Operation and Control	6	spring
<a href="#">T140M265</a>	Electromagnetic Transients Processes	6	spring
<a href="#">T125M262</a>	Computer-aided Control of Technological Equipment	6	spring
<a href="#">T125M123</a>	Programmable Logical Controllers	6	autumn
<a href="#">T125M125</a>	Robotics	6	spring
<a href="#">T125M012</a>	Integrated Systems of Mechatronics	6	spring