

Control, Electronic, and Information Engineering

studia pierwszego stopnia

Plan studiów

Semestr 1	Semestr 2	Semestr 3	Semestr 4	Semestr 5	Semestr 6A	Semestr 6E	Semestr 6I	Semestr 7A	Semestr 7E	Semestr 7I
Physical education 2C 1ECTS	Physical education 2C 1ECTS	Foreign language 2ECTS 2C	Foreign language 2ECTS 2C Exam	Theory of computer science 3ECTS 2lab	Control fundamentals 2ECTS 2lab			Final project 15ECTS 3proj + 1sem Exam		
Foreign language 2ECTS 2C	Foreign language 2ECTS 2C	Computer programming 4ECTS 2L+2lab	Introduction to electronics 6ECTS 1L+2C+2lab Exam	Control fundamentals 6ECTS 3L+2C Exam	Computer graphics 4ECTS 2L+2lab			Optional course A3 1L+1lab 2ECTS	Optional course E3 1L+1lab 2ECTS	Social and professional challenges of computer science 2ECTS 2L
Algebra and analytic geometry 5ECTS 2L+1C	Algebra and analytic geometry 4ECTS 1L+1C Exam									
Calculus and differential equations 5ECTS 2L+2C	Calculus and differential equations 5ECTS 2L+2C Exam	Physics 6ECTS 2L+1C+2lab Exam	Numerical methods 4ECTS 2L+2lab	Artificial intelligence 4ECTS 2L+2lab	Embedded systems 4ECTS 2L+2lab			CAD of control systems 3ECTS 2L+2lab	Computer architecture 3ECTS 2L+2lab	
Circuit theory 5ECTS 2L+2C	Circuit theory 6ECTS 2L+1C+1lab Exam	Optimization and decision making 5ECTS 2L+2lab	Digital circuits 5ECTS 2L+1C+1lab	Computer networks 6ECTS 2L+2lab Exam	Databases 5ECTS 2L+2lab Exam			Hierarchical control 3ECTS 2L+2lab	Digital circuits design 3ECTS 2L+2lab	Software engineering 4ECTS 2L+2lab
Fundamentals of computer programming 5ECTS 2L+2lab	Theory of logic circuits 3ECTS 2lab	Probability and statistics 5ECTS 2L+2lab	Measurement systems 5ECTS 2L+2lab Exam	Fundamentals of signal processing 5ECTS 2L+2lab	Operating systems 4ECTS 2L+2lab Exam			Applied Digital Signal Processing 3ECTS 2L+1lab/C	Design for manufacture 3ECTS 2L+1lab	Optional course I3 1L+2lab 2ECTS
Theory of logic circuits 5ECTS 2L+2C	Physics 3ECTS 2L+1C	Introduction to electronics 3ECTS 3L	Theory of computer science 5ECTS 2L+2C	Microprocessor systems 4ECTS 1L+2lab+1Proj	Robotics 4 3ECTS 2L+2lab	Mixed signal circuits design 3ECTS 2L+2Project	Algorithms and data structures 3ECTS 2L+2lab Exam	Optional course A4 2ECTS 1L+2lab/C	Optional course E4 2ECTS 1L+2lab/C	Optional course I4 2ECTS 1L+2lab/C
Social sciences 1 2ECTS 1L+1Project Exam Optional	Computer programming 3ECTS 1L+1lab	Introduction to system dynamics 5ECTS 2L+1C Exam			Social sciences 2 2ECTS 1L+1Project Optional	Social sciences 3 1ECTS 1L	Optional course A1 2ECTS 1L+1lab/C	Optional course E1 2ECTS 1L+1lab/C	Optional course I1 2ECTS 1L+1lab/C	Optional course A5 2ECTS 1L+2lab/C
	Discrete mathematics 3ECTS 1L+1C			Project management 1ECTS 1L+1P	Optional course A2 2ECTS 1L+1lab	Optional course E2 2ECTS 1L+1lab	Optional course I2 2ECTS 1L+1lab	Industrial training (4 weeks) 4ECTS		