

# Control, Electronic, and Information Engineering studia drugiego stopnia

## Plan studiów

	Semestr 1			Semestr 2			Semestr 3		
	Automatic Control	Electronics	Informatics	Automatic Control	Electronics	Informatics	Automatic Control	Electronics	Informatics
1	Optimization Theory, 30lect + 30lab, 3ECTS			Computer Systems Security, 15lect + 15lab, 2ECTS			Project Management (HES) 15lect + 30proj., 3ECTS		
2				Industrial Project, 15sem + 30proj, 4ECTS	Theory of Information and Coding, 30lect + 15class, 4ECTS	Industrial Computer Systems, 30lect + 30lab, 5ECTS			
3							Final Project Seminar 30sem, 3ECTS		
4				Advanced Topics in Numerical Methods, 15lect + 30lab, 3ECTS					
5	Modeling and Simulation of Industrial Systems, 30lect + 30lab, 5ECTS						Digital Modeling and Simulation, 30lect + 30class + 30lab, 6ECTS, Exam		
6				Advanced Topics in Mathematics, 30lect + 30class, 5ECTS, Exam					
7	Computer Aided Electronic Circuits Design, 15lect + 30lab, 4ECTS						Programmable Controllers, 30lect + 30lab + 30proj, 5ECTS, Exam		
8				Advanced Control, 30lect + 30class + 30lab, 6ECTS, Exam					
9	System Identification, 45lect + 30lab, 6ECTS, Exam						Exchange devices, 30lect, 1ECTS		
10				Electromagnetic Compatibility, 15lect + 15class, 3ECTS, Exam					
11	Advanced Operating Systems, 30lect + 30lab, 5ECTS, Exam						Programmable Logic Devices, 15lect + 15lab, 2ECTS		
12				Programmable Controllers, 30lect + 15lab, 3ECTS					
13	Computer Integrated Manufacturing, 30lect + 15lab, 4ECTS						Cellular Phone Systems, 30lect, 2ECTS		
14				Microelectronics, 15lect + 30lab, 3ECTS					
15	Databases Applications, 30lect + 30lab, 5ECTS						Optional course, 15lect + 15lab, 2ECTS		
16				Programming In Assembler, 15lect + 15lab, 3ECTS					
17	Optional course, 30lect + 15lab, 3ECTS						Optional course, 30lect + 15lab, 3ECTS		
18				Optional course, 30lect + 15lab, 3ECTS					
19	Optional course, 30lect + 15lab, 3ECTS						Optional course, 30lect + 15lab, 3ECTS		
20				Optional course, 30lect + 15lab, 3ECTS					
21	Optional course, 30lect + 15lab, 3ECTS						Optional course, 30lect + 15lab, 3ECTS		
22				Optional course, 30lect + 15lab, 3ECTS					
23	Optional course, 30lect + 15lab, 3ECTS						Optional course, 30lect + 15lab, 3ECTS		
24				Optional course, 30lect + 15lab, 3ECTS					
25	Optional course, 30lect + 15lab, 3ECTS						Optional course, 30lect + 15lab, 3ECTS		
26				Optional course, 30lect + 15lab, 3ECTS					
27	Foreign language, 30class, 2ECTS						Foreign language, 30class, 2ECTS		
28	Foreign language, 30class, 2ECTS			Foreign language, 30class, 2ECTS					