Title of Course		Automation and Measurements of Physical Quantities				
Semester		Autumn/Spring				
Teaching		Total		Lectures:	- Tutorials:	
Hours per Course:		30		30	-	
ECTS Credits		2				
The content of education						
Aims of	This	This course focuses on automation and measurements of physical				
Course	quan	quantities. The student will obtain information about measurements,				
	instr	strumentation and automatics equipment, measuring systems, as well as				
	indu	industrial automation and automatic regulation. Student will learn to design				
		automation schemes and choose proper equipment required in				
	technological process.					
Program	L1. Basic terms used in metrology; L2. Fundamentals of calculus of errors					
		and estimation of measurement uncertainty; L3. Operational amplifier; L4.				
		Measuring instruments and converter circuits; L5. Measurement systems;				
		L6. Temperature measurements; L7. Pressure, flow and level				
		measurements; L8-9. Designing Digital Logic Circuits; L10. Digital				
		control system; L11. Spectral analysis of automation systems; L12-13.				
		iming analysis of automation systems; L14. Stability of automation				
O 1141 6		systems; L15. Regulators; Written test				
Conditions of	Writ	ten test				
completion	Daga	Pass mark: 51%				
	Pass	Pass mark. 51%				
	Mar	zo•				
	51-6					
	61-7					
	71-8	*				
	81-9					
		00% 5				
Teacher		b Lęcki, M.Sc.				
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