

NAME OF THE COURSE		Automatics I					
Code	PMT064	Year of study		3.			
Course teacher	Hrvoje Turić, prof.	Credits (ECTS)		5,0			
Associate teachers		Type of instruction (number of hours)		L	S	E	F
				30		15	
Status of the course	Compulsory	Percentage of application of e-learning					
COURSE DESCRIPTION							
Course objectives	Adopting basic knowledge of automatic control and automatic control systems.						
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	1. Define system 2. Explain the internal order of automatic control system 3. Analyze the signal in time and frequency domain 4. Analyze mathematical model of system 5. Define types of signals 6. Explain the automatic regulation and control systems 7. Simulate a model system						
Course content broken down in detail by weekly class schedule (syllabus)	1. Introduction to the course and basic concepts 2. The system and its features 3. the internal order of automatic control system 4. Information and signal 5. The man and the system 6. process 7. Object 8. (colloquium) 9. The mathematical model of the process 10. The simulation model of the system 11. Management of the process 12. Regulatory circle 13. The analysis in the time domain 14. Analysis in the frequency domain 15. (colloquium)						
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input checked="" type="checkbox"/> independent assignments <input checked="" type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	Class attendance, homework (programs), independent study and literature reading, accessing colloquium and/or written and oral examination.						
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance	1	Research		Practical training		
	Experimental work		Report		Colloquium	1	
	Essay		Seminar essay		(Other)		
	Tests		Oral exam	1,5	(Other)		
	Written exam	1,5	Project		(Other)		
Grading and evaluating student work in class and at the final exam	Class attendance is registered, but not included in the evaluation. Exam and partial exam consists of a theoretical part and assignments. - Theoretical exam (50%) - Assignments (50%) Passing threshold is 50%.						
Required literature (available in the library and via other media)	Title			Number of copies in the library		Availability via other media	
	Juraj Božičević, Temelji automatike 1						
	P. Crnošija, T Bjažinić, Osnove Automatike I dio						

Optional literature (at the time of submission of study programme proposal)	LJ. Kuljača, Z.Vukić, Automatsko upravljanje sistemima		
Quality assurance methods that ensure the acquisition of exit competences	Conducting an anonymous student surveys, talk with students, analyses the success of students on tests and exams, self-assessment.		
Other (as the proposer wishes to add)			