NAME OF THE COL	JRSE	Automatics II									
Code	PMT074			Year of st	udy	1. Graduate study					
Course teacher	Hrvoje Turić, prof.			Credits (E	ECTS)	2					
Accesiete teachers				Type of ir	Type of instruction		S	E		F	
Associate teachers				(number	of hours)	15		15			
Status of the course	elective course			Percentag	Percentage of application of e-learning						
COURSE DESCRIPTION											
Course objectives	Enabling students to the design of simple automation 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 objects 2. Explain the DC and hydraulic motor 3. Explain P value, I value, D value 4. Analyze the requirements of the synthesis of 5. Define types of signal compensator 6. Define the PID controller 7. Explain sensors										
Course content broken down in detail by weekly class schedule (syllabus)	1. Regulating structures 2. Approaching the object 3. The DC servomotor 4. The hydraulic motor 5. P value, I value, D value 6. Synthesis of Control System 7. The requirements in the time and frequency domain 8. (Colloquium) 9. Root locus 10. Compensators 11. Serial compensation 12. PI compensator 13. PD compensator 14. PID controller 15. (Colloquium)										
Format of instruction	 ☑ lectures ☑ seminars and workshops ☑ exercises ☑ on line in entirety ☑ partial e-learning ☑ field work 					t assignments entor r)					
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		0,5	Research		Practical	actical training				
	Experimental work			Report		Colloquium 0,		0,5	5		
	Essay			Seminar essay		(Other)					
	Tests			Oral exam	0,5	(Other)					
	Written exam		0,5	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					Numbe copie the lib	er of s in rary	of in other media		ty via edia	
	N. Perić, I.Petrović: Automatizacija postrojenja i procesa- zavodska skripta FER										
	I.Mandić Automatika 2										

Optional literature (at the time of submission of study programme proposal)	B.A. Ogunnaike, W.H.Ray: Process –dynamics, Modeling, and Control, Oxford
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)	