Project Titl in PLC and	•		y in automated ind	ustry, especially	Institute ID: MEI-115
Aims: Th	e automated	l indu	stry (Industry 4.0) is	increasingly explo	iting the potential of IoT and
					bilities to "hackers" to crack the
industrial co should be a automation i industrial c	ommunicatic study summ industry aga yber securi	on's sy arizir inst c ty pr	ystems. Basically, systems tools adopted by yber-attacks. Minime ovisions and practic	stems become more y industry 4.0 and um expected resul al measures (adva	e vulnerable. This project work communication devices used in ts of the study: analysis of the intages, disadvantages, possible cts from: Siemens, Omron,
					cyber security provisions of the
			· · · ·		for the project, 4 companies, 5
companies:			I I I I I I I I I I I I I I I I I I I		, F J , F , F , F , F , F , F , F , F ,
Name of annoucer:			Dr. Nagy István		
Name of supervisor(s):			Jányoki Ákos Sándor		
Contact:			janyoki.akos@bgk.uni-obuda.hu		
Group size (min./max.): Material requirements available:			3-5 persons		
			Under the minimal nr. of participants the project will not be started.		
			Internet and practical research (state of art) in the field of industrial cyber		
			security, see for example at Siemens:		
			https://www.siemens.com/global/en/products/automation/topic-areas/industrial-cybersecurity.html		
Material requirements			—		
pending purchase:					
Usable financial frame			-		
(max.):					
Required p	rerquisitie	-	Exam from <i>"PLC k</i>		
			10		tasks within the project group.
	weeks	Preparation of a semester time and work plan, schedule. seeking for sim			
Expected 1-2. studies. Literature research, possible soluti working plan, scheduling the personal wor					
schedule:	ماممیر	WOI			
	weeks	- Writing individual studies, reports - (studies should be formally similar to thesis)			
	3-4.				
	weeks	- Writing individual studies, reports -			
	5-6.	(studies should be formally similar to thesis)			
	weeks	- Writing individual studies, reports - (studies should be formally similar to thesis)			
	7-9.				
	weeks		ompletition and evaluation of a final (summarized) study from both a cyber-		
	10-13.	security and economic point (what the firm can save if applying the security			
		provisions, and what can lose if not) of view.			
	weeks	Presentation (in person) and evaluation, documentation submitting ,			
	14 -15.	see moodle.			
REMARK:	anala-t	است	ally always at the state	turenting	
			only students of Mecha		g the required subjects.
			ber of applicants	-	finishing the project / result
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