Anlage 1: Studienverlaufsplan bei Vollzeitstudium

Module	Submodule	Ë	ECTS	Semester			
		Sem		1	2	3	4
Industrial Communication and Information Security in Industrial Automation	Industrial Communication	1		3			
	Industrial IoT	1	12	5			
	Π-Security	2			4		
					ECTS		
	Object oriented						
Rusiness Information	Programming for Data Science	1		3			
	Relational Databases	1	9	3			
	Enterprise Resource Planning Systems	1			3		
Modelling and Simulation of Technical Systems	Modelling and Simulation of Continuous Systems	2			4		
	Modelling and Simulation of Discrete Event Systems	2	15		2		
	Data-driven Modelling and Model Optimization	2			5		
	Modelling and Simulation of Electrical Energy Systems	1		4			
Control of Technical Systems	Digital Signal Processing and Optoelectronics	2	14		4		
	Linear, Nonlinear and Model Predictive Control	1		5			
	Automation of Discrete Event Systems	1			2		
	Protection Automation and Control in Electrical Energy Supply	2			3		
Optimization of Technical Systems	Numerical Methods	1		3			
	Optimization	1	10	4			
	Machine Learning and Al	2		\vdash	3		
	Case Study I	3	\vdash			10	
Case Studies	Machine Learning and Al 2 3						
	Case Study III	3				10	
Master Thesis	Thesis	4	30				20
	Colloquium	4					10
Sum ECTS			120	30	30	30	30

Anlage 2: Exemplarischer Studienverlaufsplan bei Teilzeitstudium

Module	Submodule	Sem.	ECTS	ECTS/ Semester						
				1	2	3	4	5	6	
Industrial Communication and Information Security in Industrial Automation	Industrial Communication	1		3						
	Industrial loT	1	12			5				
	IT-Security	2	1				4			
	ii oodany	_		ECTS						
	Object oriented						13	1		
Integration of Technical and Business Information Systems	Programming for Data	1		3						
	Relational Databases	1	9			3				
	Enterprise Resource	4					_			
	Planning Systems	1					3			
Modelling and Simulation of Technical Systems	Modelling and Simulation of Continuous Systems	2	- 15		4					
	Modelling and Simulation of Discrete Event	2			2					
	Data-driven Modelling and	2			5					
	Model Optimization Modelling and Simulation									
	of Electrical Energy	1		4						
	Systems									
Control of Technical Systems	Digital Signal Processing	2					4			
	and Optoelectronics Linear, Nonlinear and		14							
	Model Predictive Control	1		5						
	Automation of Discrete	1					2			
	Event Systems	•					_			
	Protection Automation and Control in Electrical	2			3					
	Energy Supply	2			၂ ၁					
	стегуу оцругу							,		
Optimization of Technical Systems	Numerical Methods	1		3						
	Optimization	1	10			4				
	Machine Learning and Al	2	1 -				3			
Case Studies	Case Study I	3	30			10				
	Case Study II	3						10		
	Case Study III	3						10		
Montar Thomas	Thesis	4	30						20	
Master Thesis	Colloquium	4							10	
SumECTS			120	18	14	22	16	20	30	