## Modul- und Studienverlaufsplan:

Modul	Teilmodul	Sem.	ECTS	ECTS/ Semester			
		Š		1	2	3	4
Industrial Communications	Industrial IT and Mobile Communications	1	8	4			
	Industrial Internet and Web-Technologies	2			4		
Information and Network Security in Industrial Au- tomation	IT-Security - Management and Technologies	1	- 8	4			
	Industrial Security in Automation	2			4		
Integration of Technical and Business Information Systems	Relational Databases	1		2			
	Manufacturing Execution Systems	2	8		2		
	Enterprise Resource Plan- ning Systems	1		4			
Modelling and Simulation of Technical Processes	Numerical methods	1	- 14	2			
	Modelling and simulation of continuous systems	2			4		
	Modelling and simulation of discrete event systems	2			2		
	Data-driven modelling and model optimization	2			6		
Advanced Process Control and Optimization	Fundamentals of digital signal processing	1	18	4			
	Linear, nonlinear and mo- del predictive control	1		6			
	Automation of discrete event systems	2			2		
	Optimization	2			6		
Technical Project Planning and Software Engineering	Technical project planning	1	4	2			
	Software engineering	1		2	1		

Summe ECTS			120	30	30	30	30
Master Thesis	Colloquium	4	30				10
	Thesis	4					20
Case Studies	Case Study III	3	30			10	
	Case Study II	3				10	
	Case Study I	3				10	