Technische Hochschule Mittelhessen – University of Applied Sciences
Master of Science in Control, Computer and Communications Engineering

	CORE MODULES			CrP
SEMESTER 1	*Core subjects common to all specialisations – First semester*			
	Interdisciplinary IoT Project with Scientific Methods			7
	Cyber Security			5
	Language (either German as a Foreign Language or English in a Professional Environmment)			4
	Control Specialisation (Core subjects)	*Computer Specialisation (Core subjects)*	*Communications Specialisation (Core subj.)*	
	Advanced Control Methods of Electrical Drives and Power Electronic Converters	Advanced Computer Architecture	Advanced Signal Processing	5
	Modelling and Simulation of Electrical Systems and Drives	Distributed and Concurrent Computing	Data Transmission	5
	Control for Renewable Energy and Smart Grids	Foundations of Artificial Intelligence	Software Development in Communications Systems	5
			TOTAL No. of CREDIT POINTS (First semester)	31
SEMESTER 2	*Core subjects common to all specialisations – Second semester*			
	Case Study in Control, Computer and Communications Engineering with Project Management			9
	Control Specialisation (Core subjects)	*Computer Specialisation (Core subjects)*	*Communications Specialisation (Core subj.)*	
	Nonlinear and Predictive Control	Augmented Reality	IP Based Networks & Protocols	5
	Elective modules (3 subjects out of the list of "Elective Modules", total 15 CrP)	Elective modules (3 subjects out of the list of "Elective Modules", total 15 CrP)	Elective modules (3 subjects out of the list of "Elective Modules", total 15 CrP)	15
			TOTAL No. of CREDIT POINTS (Second semester)	29
SEM. 3	*Core subject common to all specialisations – Third semester*			
	Master Thesis (6 months)			30
			TOTAL No. of CREDIT POINTS (Third semester)	30
			TOTAL No. of CREDIT POINTS FOR THE MASTER OF SCIENCE DEGREE IN CONTROL, COMPUTER AND COMMUNICATIONS ENGINEERING	90

	A SAMPLE of ELECTIVE MODULES (15 Credit Points during the second semester)	CrP
ELECTIVE MODULES	Nonlinear and Stochastic Optimization	5
	Electric Vehicle Technologies and Applications	5
	Fault Diagnosis and Fault-tolerant Control	5
	Autonomous Robotic Systems	5
	Hardware Based Pattern Recognition	5
	Advanced Sensors	5
	Embedded Systems	5
	Network Security	5
	Internship	5
	Student Research Project	5

(Please note that not all electives are offered every year)