

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

CORE MODULES				CrP	
SEMESTER 1	<i>Core subjects common to all specializations – First semester</i>				
	Interdisciplinary IoT Project with Scientific Methods				7
	Cyber Security				5
	Language (either German as a Foreign Language or English in a Professional Environment)				4
	<i>Control Specialization (Core subjects)</i>		<i>Computer Specialization (Core subjects)</i>		<i>Communications Specialization (Core subj.)</i>
	Advanced Control Methods of Electrical Drives and Power Electronic Converters		Advanced Computer Architecture		5
	Modelling and Simulation of Electrical Systems and Drives		Distributed and Concurrent Computing		5
	Control for Renewable Energy and Smart Grids		Foundations of Artificial Intelligence		5
	TOTAL No. OF CREDIT POINTS (First semester)				31
	SEMESTER 2	<i>Core subjects common to all specializations – Second semester</i>			
Case Study in Control, Computer and Communications Engineering with Project Management				9	
<i>Control Specialization (Core subjects)</i>		<i>Computer Specialization (Core subjects)</i>		<i>Communications Specialization (Core subj.)</i>	
Nonlinear and Predictive Control		Augmented Reality		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)		15	
TOTAL No. OF CREDIT POINTS (Second semester)				29	
SEM. 3	<i>Core subject common to all specializations – Third semester</i>				
	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	

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)