Electrical Engineering and Information Technology - International Master of Science (IMSEIT) 1. Semester - 2. Semester : 3. Semester - 3. /4. Semester :

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Mandatory Basic Module: Technical Management 5 CP	Mandatory Basic Module: Team Project 5 CP	Internship for international students 30 CP (Skipped for h_da	Master Module 30 CP	mandatory module for Automation	mandatory module for Communications	mandatory module for Embedded and Microelectronics	mandatory module for Power Engineering
mandatory module 1 (subject to major) 5 CP mandatory module 2 (subject to major) 5 CP mandatory module 3 (subject to major) 5 CP mandatory module 4 (subject to major) 5 CP mandatory module 4 (subject to major) 5 CP	mandatory module 5 (subject to major) 5 CP mandatory module 6 (subject to major) 5 CP mandatory module 7 (subject to major) 5 CP elective module 2 (subject to major) 5 CP elective module 3 (subject to major) 5 CP	students) —		Safety in Indust- rial Automation Adaptive Control, Modeling, and Identification Computer Vision Advanced Programming Techniques Industry 4.0/IIoT and the Digital Factory Industrial Robotics State-Space Control Design	Advanced Digital Signal Processing Microwave Components and Systems Advanced Soft- ware Design and Development System-Driven Hardware Design Fields, Waves and Antennas Information Networks Advanced Modulation	Advanced Programming Techniques VLSI Design and Testing Advanced Microcontroller Systems and Embedded Ope- rating Systems FPGA-based System on Chip Design Embedded Architectures and Applications System Driven Hardware Design Embedded System Driven Hardware Design	Advanced High Voltage Technology Power System Operation Renewable Energy Systems Embedded Programming & Design of Real- Time Control Systems Power Electro- nics for Drives and Energy Systems Advanced Control of Electrical Drives Model-Based Design, HiL & PiL Systems
German class	German class	CP: The sizes of the modules correspond to an average study and learn effort. For successfully completed modules, credit points are awarded – as a general rule 60 CP per year. Colour caption: •••• Mandatory Modules ••• Final thesis ••• Industrial placement •••• Electives ••• General qualification					