

Zulassungsvoraussetzungen	Electrical Engineering and Information Technology – International Master of Science (IMSEIT)								Perspektiven
	1. Semester	2. Semester	3. Semester	3./4. Semester					
<ul style="list-style-type: none"> Required for admission are a Bachelor's degree with demonstrated academic achievements well above average, from an institution of recognized standing, in the field of Electrical Engineering and Information Technology, or a closely related field with substantial electrical engineering content (e.g., mechatronics, etc.). Advanced English language proficiency is required, as all courses are taught in English. IELTS 6.5, TOEFL 88 Admission is once a year for Autumn intake only. The IMSEIT exam board will waive parts of the curriculum if prior training can be demonstrated to be equivalent in learning outcome. To make up for possible gaps in past training, all successful applicants are required to attend special preparatory courses beginning September 1 every year. For non-native speakers, concurrent German classes are offered during the preparatory phase as well as throughout the academic semesters, for which, again, attendance is mandatory. Attaining A2 level will be a prerequisite for graduation. 	Mandatory Basic Module: Technical Management 5 CP	Mandatory Basic Module: Team Project 5 CP	Internship for international students 30 CP (Skipped for h_da students)	Master Module 30 CP	mandatory module for Automation ●	mandatory module for Communications ●	mandatory module for Embedded and Microelectronics ●	mandatory module for Power Engineering ●	The degree will prepare and qualify for leading positions worldwide in relevant fields. Typical responsibilities include: - research and development - technical management - production - consultancy - application engineering may, with excellent academic standing, prepare and qualify for subsequent Ph.D.studies For an occupation in public service in Germany, the degree will qualify for positions in civil service upper rank (Höherer Dienst)
	mandatory module 1 (subject to major) 5 CP ● ● ● ●	mandatory module 5 (subject to major) 5 CP ● ● ● ●			Safety in Industrial Automation	Advanced Digital Signal Processing	Advanced Programming Techniques	Advanced High Voltage Technology	
	mandatory module 2 (subject to major) 5 CP ● ● ● ●	mandatory module 6 (subject to major) 5 CP ● ● ● ●			Adaptive Control, Modeling, and Identification	Microwave Components and Systems	VLSI Design and Testing	Power System Operation	
	mandatory module 3 (subject to major) 5 CP ● ● ● ●	mandatory module 7 (subject to major) 5 CP ● ● ● ●			Computer Vision	Advanced Software Design and Development	Advanced Microcontroller Systems and Embedded Operating Systems	Renewable Energy Systems	
	mandatory module 4 (subject to major) 5 CP ● ● ● ●	elective module 2 (subject to major) 5 CP			Advanced Programming Techniques	System-Driven Hardware Design	Embedded Programming & Design of Real-Time Control Systems	Embedded Power Electronics for Drives and Energy Systems	
	elective module 1 (subject to major) 5 CP	elective module 3 (subject to major) 5 CP			Industry 4.0/IIoT and the Digital Factory	Fields, Waves and Antennas	Power Electronics for Drives and Energy Systems	Advanced Control of Electrical Drives	
					Industrial Robotics	Information Networks	Advanced Control of Electrical Drives	Advanced Control of Electrical Drives	
		State-Space Control Design	Advanced Modulation	System Driven Hardware Design	Model-Based Design, HiL & PiL Systems				
				Embedded Signal Processing Systems					

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