

Structure of the International Master of Science in Electrical Engineering and Information technology

The following diagram illustrates the structure of the international master program. Every student has to pass the compulsory modules for all majors as well as the compulsory modules of the chosen major. In addition, every student has to choose two additional elective modules which may be selected out of the complete pool of all major modules. The international master program starts in the winter semester only.

	Semester 1	Semester 2	Semester 3	Semester 4		
All majors	System Design (M01 - compulsory)	Technical Management (M02 - compulsory)	Industrial Project (M03 - compulsory / 30CP)	Master Thesis (M04 - compulsory / 30CP)		
Major Automation	Advanced Automation (MA01 - compulsory)	Advanced Feedback Control (MA03 - compulsory)				
	Advanced Information Technology (MA02 - compulsory)	Advanced Robotics (MA04 - compulsory)				
	Autonomous Systems (MA05 - elective)	Information and simulation systems in industrial development and automation (MA06 - elective)				
Major Communication	Advanced Modulation and Coding (MC01 - compulsory)	Digital Signal Processing (MC03 - compulsory)				
	Information Networks (MC02 - compulsory)	Microwave Components and Systems (MC04 - compulsory)				
	Mobile and Satellite Communications (MC05 - elective)	Optical Communications (MC06 - elective)				
Major Embedded and Microelectronics	Complex Digital Architectures (MM01 - compulsory)	Microelectronic Systems (MM03 - compulsory)				
	Advanced Embedded Systems (MM02 - compulsory)	Design and Test of Microelectronic Systems (MM04 - compulsory)				
	Signal Processing Hardware (MM05 - elective)	CMOS analog circuits (MM06 - elective)				
Major Power	Advanced High Voltage Technology and Theory of Electrical Fields (ME01 - compulsory)	Control of electrical Drives & E-Mobility (ME03 - compulsory)				
	Power Systems and Control Technology (ME02 - compulsory)	Power- Electronics & Switching Power Supply (ME04 - compulsory)				
	Renewable Energy Systems (ME05 - elective)	Smart-Grids (ME06 - elective)				
	*unless otherwise noted, all modules have 7.5 CP					