

Master IT Engineering

3 semesters - starting in summer semester

Semester 1	Semester 2	Semester 3
Seminar IT Engineering X 5 ECTS	Project IT Engineering X 5 ECTS	Master Thesis & Colloquium T 30 ECTS
Options (5 out of 7)	Security Management X 5 ECTS	
Modern Production Methods T 5 ECTS	Dynamical Systems T 5 ECTS	
Technical Optics T 5 ECTS		
Robotics T 5 ECTS		
Industrial Internet of Things X 5 ECTS		
Algorithmics I 5 ECTS		
WS Cryptography I 5 ECTS		
Security Engineering I 5 ECTS		
Distributed Systems I 5 ECTS		
V 25 ECTS		I 5 ECTS

I COMPUTER SCIENCE **T** ENGINEERING **W** ECONOMICS **M** MATHEMATICS
X INTEGRATIVE COURSE **V** ELECTIVE COURSE **S** SOFT SKILLS

Master IT Engineering

4 semesters - starting in summer semester

Semester 1	Semester 2	Semester 3	Semester 4
Signals & Systems ^B T 5 ECTS	Applications of Artificial Intelligence ^B I 5 ECTS	Programming Structures Project ^B X 5 ECTS	Master Thesis & Colloquium T 30 ECTS
Fundamental Programming Structures ^B I 5 ECTS	Discrete Mathematics ^B I 5 ECTS	Advanced Programming Features ^B I 5 ECTS	
Options (3 out of 7)	Security Management X 5 ECTS	Options (2 out of 7)	
Modern Production Methods T 5 ECTS	Dynamical Systems T 5 ECTS	2 further modules from options block in semester 1	
Technical Optics T 5 ECTS			
Robotics T 5 ECTS			
Industrial Internet of Things X 5 ECTS			
Algorithmics I 5 ECTS			
WS Cryptography I 5 ECTS			
Security Engineering I 5 ECTS			
V 15 ECTS		Embedded Systems Workshop T 5 ECTS	Seminar IT Engineering X 5 ECTS
Distributed Systems I 5 ECTS		Medical Engineering T 5 ECTS	Project IT Engineering X 5 ECTS

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Those modules in the 4-semester programmes denoted with a "B" in the top right-hand corner are Bachelor modules.

Master IT Engineering

3 semesters - starting in winter semester

Semester 1	Semester 2	Semester 3
Seminar IT Engineering X 5 ECTS	Project IT Engineering X 5 ECTS	Master Thesis & Colloquium T 30 ECTS
Security Management X 5 ECTS	Options (5 out of 7) Modern Production Methods T 5 ECTS	
Dynamical Systems T 5 ECTS	Technical Optics T 5 ECTS	
Embedded Systems Workshop T 5 ECTS	Robotics T 5 ECTS	
Medical Engineering T 5 ECTS	Industrial Internet of Things X 5 ECTS	
Distributed Systems I 5 ECTS	Algorithmics I 5 ECTS	
	WS Cryptography I 5 ECTS	
	Security Engineering I 5 ECTS	
I COMPUTER SCIENCE X INTEGRATIVE COURSE	T ENGINEERING V ELECTIVE COURSE	W ECONOMICS S SOFT SKILLS M MATHEMATICS

Master IT Engineering

4 semesters - starting in winter semester

Semester 1	Semester 2	Semester 3	Semester 4
Fundamental Programming Structures B I 5 ECTS	Signals & Systems B T 5 ECTS	Programming Structures Project B X 5 ECTS	Master Thesis & Colloquium T 30 ECTS
Applications of Artificial Intelligence B I 5 ECTS	Advanced Programming Features B I 5 ECTS	Project IT Engineering X 5 ECTS	
Discrete Mathematics I 5 ECTS	Options (5 out of 7) Modern Production Methods T 5 ECTS	Seminar IT Engineering X 5 ECTS	
Security Management X 5 ECTS	Technical Optics T 5 ECTS	Dynamical Systems T 5 ECTS	
Medical Engineering T 5 ECTS	Robotics T 5 ECTS	Distributed Systems I 5 ECTS	
	Industrial Internet of Things X 5 ECTS	Embedded Systems Workshop T 5 ECTS	
	Algorithmics I 5 ECTS		
	WS Cryptography I 5 ECTS		
	Security Engineering I 5 ECTS		
I COMPUTER SCIENCE X INTEGRATIVE COURSE	T ENGINEERING V ELECTIVE COURSE	W ECONOMICS S SOFT SKILLS M MATHEMATICS	

Those modules in the 4-semester programmes denoted with a "B" in the top right-hand corner are Bachelor modules.