

Master IT Engineering

3 semesters - starting in summer semester

Semester 1

Semester 2

Semester 3

<p>Seminar IT Engineering</p> <p>X 5 ECTS</p>	<p>Project IT Engineering</p> <p>X 5 ECTS</p>	<p>Master Thesis & Colloquium</p> <p>T 30 ECTS</p>		
<p>Options (5 out of 7)</p>				<p>Security Management</p> <p>X 5 ECTS</p>
<p>Modern Production Methods</p> <p>T 5 ECTS</p>	<p>Dynamical Systems</p> <p>T 5 ECTS</p>			
<p>Technical Optics</p> <p>T 5 ECTS</p>	<p>Embedded Systems Workshop</p> <p>T 5 ECTS</p>			
<p>Robotics</p> <p>T 5 ECTS</p>	<p>Medical Engineering</p> <p>T 5 ECTS</p>			
<p>Industrial Internet of Things</p> <p>X 5 ECTS</p>	<p>Distributed Systems</p> <p>I 5 ECTS</p>			
<p>Algorithmics</p> <p>I 5 ECTS</p>				
<p>WS Cryptography</p> <p>I 5 ECTS</p>				
<p>Security Engineering</p> <p>I 5 ECTS</p>				
<p>V 25 ECTS</p>				

<p>I COMPUTER SCIENCE</p>	<p>T ENGINEERING</p>	<p>W ECONOMICS</p>	<p>M MATHEMATICS</p>
<p>X INTEGRATIVE COURSE</p>	<p>V ELECTIVE COURSE</p>	<p>S SOFT SKILLS</p>	

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)	
Dynamical Systems T 5 ECTS	Modern Production Methods T 5 ECTS	
Embedded Systems Workshop T 5 ECTS	Technical Optics T 5 ECTS	
Medical Engineering T 5 ECTS	Robotics T 5 ECTS	
Distributed Systems I 5 ECTS	Industrial Internet of Things X 5 ECTS	
	Algorithmics I 5 ECTS	
	WS Cryptography I 5 ECTS	
	Security Engineering I 5 ECTS	
	V 25 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
<p>Signals & Systems ^B T 5 ECTS</p>	<p>Applications of Artificial Intelligence ^B I 5 ECTS</p>	<p>Programming Structures Project ^B X 5 ECTS</p>	<p>Master Thesis & Colloquium T 30 ECTS</p>
<p>Fundamental Programming Structures ^B I 5 ECTS</p>	<p>Discrete Mathematics ^B I 5 ECTS</p>	<p>Advanced Programming Features ^B I 5 ECTS</p>	
<p>Options (3 out of 7)</p> <p>Modern Production Methods ^T 5 ECTS</p> <p>Technical Optics ^T 5 ECTS</p> <p>Robotics ^T 5 ECTS</p> <p>Industrial Internet of Things ^X 5 ECTS</p> <p>Algorithmics ^I 5 ECTS</p> <p>WS Cryptography ^I 5 ECTS</p> <p>Security Engineering ^I 5 ECTS</p> <p>V 15 ECTS</p>	<p>Security Management ^X 5 ECTS</p> <p>Dynamical Systems ^T 5 ECTS</p> <p>Embedded Systems Workshop ^T 5 ECTS</p> <p>Medical Engineering ^T 5 ECTS</p> <p>Distributed Systems ^I 5 ECTS</p>	<p>Options (2 out of 7)</p> <p>2 further modules from options block in semester 1</p> <p>^T 10 ECTS</p> <p>Seminar IT Engineering ^X 5 ECTS</p> <p>Project IT Engineering ^X 5 ECTS</p>	

- 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
<p>Fundamental Programming Structures ^B I 5 ECTS</p>	<p>Signals & Systems ^B T 5 ECTS</p>	<p>Programming Structures Project ^B X 5 ECTS</p>	<p>Master Thesis & Colloquium T 30 ECTS</p>
<p>Applications of Artificial Intelligence ^B I 5 ECTS</p>	<p>Advanced Programming Features ^B I 5 ECTS</p>	<p>Project IT Engineering X 5 ECTS</p>	
<p>Discrete Mathematics I 5 ECTS</p>	<p>Options (5 out of 7)</p> <p>Modern Production Methods ^B T 5 ECTS</p>	<p>Seminar IT Engineering X 5 ECTS</p>	
<p>Security Management X 5 ECTS</p>	<p>Technical Optics T 5 ECTS</p> <p>Robotics T 5 ECTS</p>	<p>Dynamical Systems T 5 ECTS</p>	
<p>Medical Engineering T 5 ECTS</p>	<p>Industrial Internet of Things ^B X 5 ECTS</p> <p>Algorithmics I 5 ECTS</p> <p>WS Cryptography I 5 ECTS</p> <p>Security Engineering I 5 ECTS</p> <p>V 25 ECTS</p>	<p>Distributed Systems I 5 ECTS</p> <p>Embedded Systems Workshop T 5 ECTS</p>	
<p>I COMPUTER SCIENCE X INTEGRATIVE COURSE</p>	<p>T ENGINEERING V ELECTIVE COURSE</p>	<p>W ECONOMICS S SOFT SKILLS</p>	<p>M MATHEMATICS</p>

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