

Master IT Engineering - Smart Manufacturing

Start Winter semester

Semester 1	Semester 2	Semester 3
AI & Optimization for Industrial Applications X 5 ECTS	Industrial Internet of Things X 5 ECTS	Masterthesis & Colloquium X 30 ECTS
Medical Engineering X 5 ECTS	Systems Engineering X 5 ECTS	
Embedded Systems Workshop X 5 ECTS	Smart Manufacturing Project T 5 ECTS	
Smart Manufacturing Seminar T 5 ECTS	Sensors -Technology and Fabrication T 5 ECTS	
Automation Technology T 5 ECTS	Modern Production Methods T 5 ECTS	
Choice (1 out of 2) Security Management Communication Systems & Reconfigurable Computing V 5 ECTS	Robotics T 5 ECTS	

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

Master IT Engineering - Smart Manufacturing

Start Winter semester (Recommendation for 180 ECTS Incomings)

Semester 1	Semester 2	Semester 3	Semester 4
Fundamental Programming Structures O 5 ECTS	Elective Qualification Course O 5 ECTS	Elective Qualification Course O 5 ECTS	Masterthesis & Colloquium X 30 ECTS
Discrete Mathematics Q 5 ECTS	Industrial Internet of Things X 5 ECTS	Embedded Systems Workshop X 5 ECTS	
Elective Qualification Course O 5 ECTS	Robotics X 5 ECTS	AI & Optimization for Industrial Applications X 5 ECTS	
Elective Qualification Course Q 5 ECTS	Systems Engineering X 5 ECTS	Smart Manufacturing Seminar T 5 ECTS	
Medical Engineering X 5 ECTS	Sensors -Technology and Fabrication T 5 ECTS	Smart Manufacturing Project T 5 ECTS	
Choice (1 out of 2) Security Management Communication Systems & Reconfigurable Computing V 5 ECTS	Modern Production Methods T 5 ECTS	Automation Technology T 5 ECTS	

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Possible qualification courses (by agreement, 4 out of 6)

Summer semester	Winter semester	Summer and winter semester
Advanced Programming Features Q 5 ECTS	Applications of AI Q 5 ECTS	Programming Project Q 5 ECTS
Signals and Systems Q 5 ECTS	Engineering Mathematics Q 5 ECTS	IIot Project Q 5 ECTS

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Systems Engineering X 5 ECTS	Medical Engineering X 5 ECTS	
Smart Manufacturing Seminar T 5 ECTS	Embedded Systems Workshop X 5 ECTS	
Sensors -Technology and Fabrication T 5 ECTS	Smart Manufacturing Project T 5 ECTS	
Modern Production Methods T 5 ECTS	Automation Technology T 5 ECTS	
Robotics T 5 ECTS	Choice (1 out of 2) Security Management Communication Systems & Reconfigurable Computing V 5 ECTS	

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Elective Qualification Course Q 5 ECTS	Medical Engineering X 5 ECTS	Robotics X 5 ECTS	
Elective Qualification Course Q 5 ECTS	Embedded Systems Workshop X 5 ECTS	Smart Manufacturing Seminar T 5 ECTS	
Elective Qualification Course Q 5 ECTS	AI & Optimization for Industrial Applications X 5 ECTS	Smart Manufacturing Project T 5 ECTS	
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Engineering Mathematics Q 5 ECTS	Signals and Systems Q 5 ECTS	IIot Project Q 5 ECTS