



DIGITAL TECHNOLOGIES

ZUKUNFT. DIGITAL. NACHHALTIG.

Master Digital Technologies English Study Plan

Ein gemeinsames Studienprogramm der



There is one way you can study Digital Technologies (M.Sc.) completely in English. This means you have restrictions in choosing your modules.



Study plan Master Digital Technologies

	1. Semester	2. Semester	3. Semester (alternatively)	4. Semester
5 ECTS	Module 1 Major Computer Science	Module 1 Major Computer Science	Module 1 Major Computer Science	Research-Track* (optional)
5 ECTS	Module 1 Minor Computer Science	Module 2 Minor Computer Science	Seminar Economic Practice	
5 ECTS	Module 1 Minor Field of Application	Module 2 Minor Field of Application	Seminar Scientific Practice	
5 ECTS	Module 1 Major Field of Application	Module 2 Major Field of Application	Module 3 Major Field of Application	
10 ECTS	Interdisciplinary Digitalizationproject 1	Interdisciplinary Digitalizationproject 2	Interdisciplinary Digitalizationproject 3	

*Students aiming at a scientific career or setting their focus in research can replace the third semester with a research semester. This has to be done in alignment with the research supervisor.

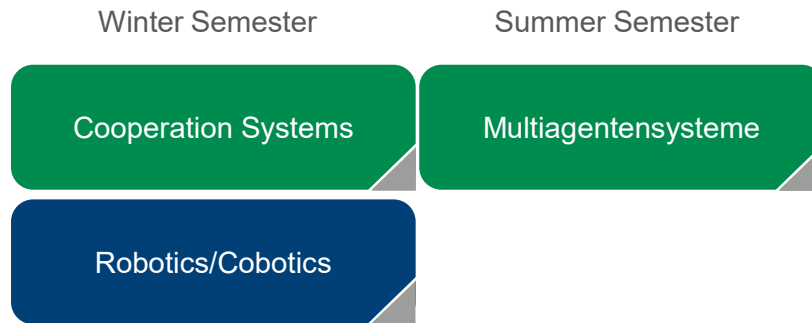
Disciplina und Fields of Application

Students entering the master's program with an english language certificate are emphasized to select lectures from the following english taught catalogues

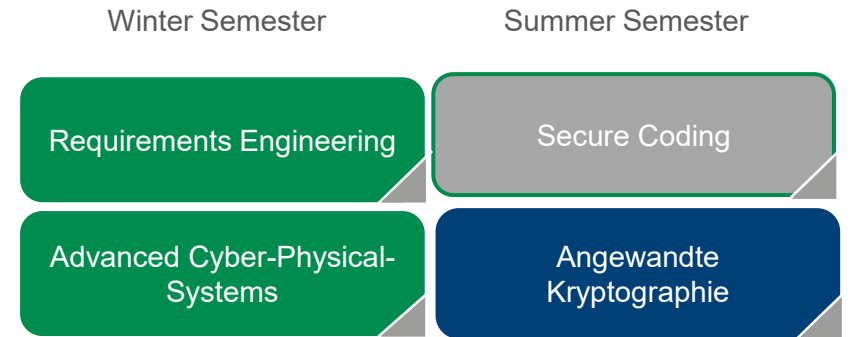
Computer Science Disciplines	Fields of Application
<i>Select one as a major and one as a minor</i>	<i>Select one as a major and one as a minor</i>
Cooperative Human-Machine Interaction	Autonomous Systems
Engineering Methods and Dependability	Circular Economy and Environmental Engineering
Machine Learning and Big Data	Digital Transformation
Smart Cyber-Physical Systems	Energy
	Industry 4.0
	Mobility

Computer Science

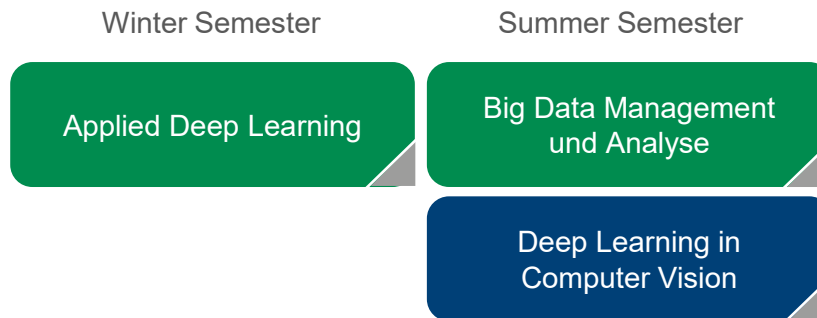
Cooperative Human-Machine Interaction



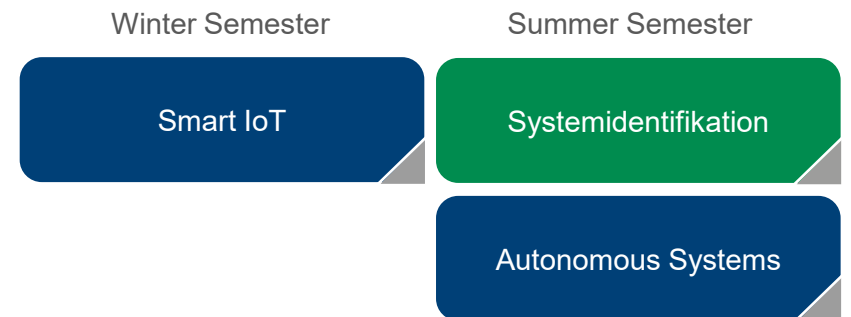
Engineering Methods and Dependability



Machine Learning and Big Data

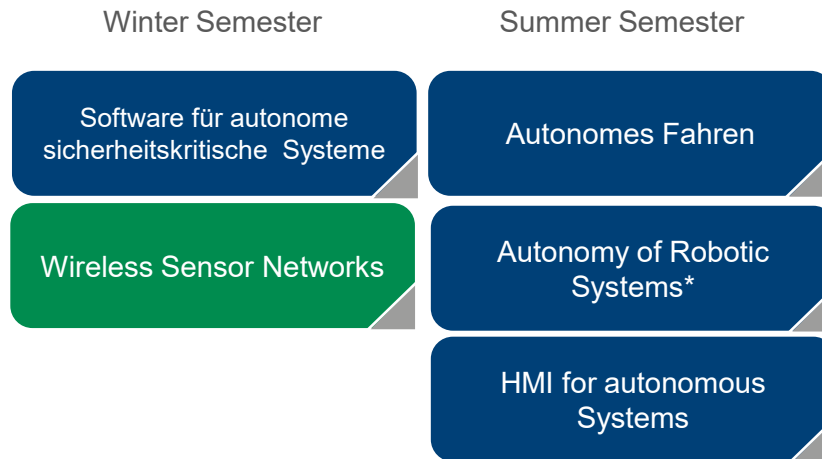


Smart Cyber-Physical Systems



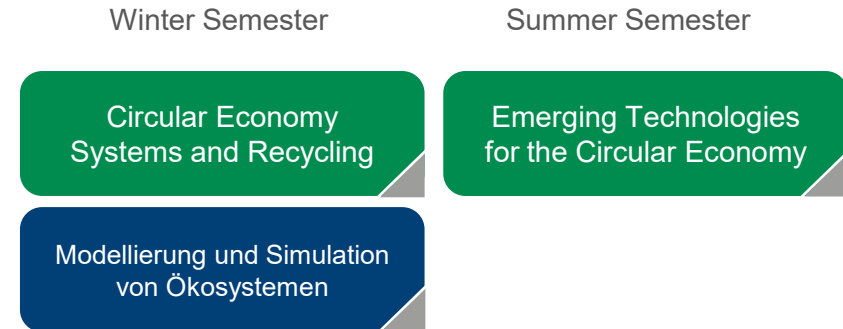
Fields of Application

Autonomous Systems



* „Autonomy of Robotic Systems“ is currently offered under the titel „Autonomous Systems“

Circular Economy und Umwelttechnik



Fields of Application

Digital Transformation

Winter Semester

Sommer Semester

Digital Entrepreneurship

Agiles Requirements Engineering für komplexe und skalierte Systeme*

* The lecture is offered bilingual, the provided materials are english

Energy

Winter Semester

SummerSemester

Integrale Energiekonzepte

Simulation von Gebäuden und Energiesystemen

Industry 4.0

Winter Semester

Summer Semester

Systemautomation

Produktmanagement in der Industrie 4.0

Anwendung von Methoden der KI in Produktion und Maschinenbau

Mobility

Winter Semester

Summer Semester

Management und Technik komplexer Projekte am Beispiel der Fahrzeugentwicklung

Software für autonome sicherheitskritische Systeme