

Course title	Course type	Semester	Credit points	Responsible for module
Intensive German course		Winter semester	6	Language Center
Extensive German course		Winter semester	3	Language Center
Software Engineering for Real-Time Systems	Lecture + exercise	Winter semester	6	Weyrich, Michael
Network Security	Lecture	Winter semester	3	Kirstädter, Andreas
Antennas	Lecture + exercise	Winter semester	6	Hesselbarth, Jan
Advanced Mathematics for Signal and Information Processing	Lecture + exercise	Winter semester	6	Yang, Bin
Information Visualization and visual analytics	Lecture + exercise	Winter semester	6	Koch, Steffen
Data Warehousing, Data mining, and OLAP	Lecture + exercise	Winter semester	6	Mitschang, Bernhard
Service Management and Cloud Computing, and Evaluation	Lecture + exercise	Winter semester	6	Klöckner, Kristof
Optimal control	Lecture + exercise	Winter semester	6	Ianelli, Andrea
Computer vision	Lecture + exercise	Winter semester	6	Bruhn, Andrés
Computational Dynamics for Robotics	Lecture + exercise	Winter semester	6	Remy, David
Probabilistic Machine Learning	Lecture + exercise	Winter semester	6	Staab, Steffen
Machine Learning for programming		Winter semester	3	
Distributed Systems I	Lecture + exercise	Winter semester	6	Aiello, Marco
Digitale Signalverarbeitung in German	Lecture + exercise	Winter semester	6	Bing, Yan
Research Methods in Software Engineering	Lecture + tutorial	Winter semester	6	Wagner, Stefan
Satellite Navigation & Integrated Positioning and Navigation	Lab course + Lecture	Winter semester	9	Hobiger, Thomas
Communication Networks Architecture and Design	Lecture + exercise	Winter semester	6	Kirstädter, Andreas
Security and Privacy	Lecture + exercise	Winter semester	6	Küstters, Ralf
Radio Frequency Technology	Lecture + exercise	Winter semester	6	Hesselbarth, Jan
Advanced Optical Fiber Communications	Lecture + exercise	Winter semester	6	Rademacher, Georg
Wind Energy 2 -Planning and Operation of Wind Farms	Lecture + exercise	Winter semester	6	Cheng, Po Wen
Operational Technology for Waste Treatment	Lecture	Winter semester	3	Sawodny, Oliver
Digitale systeme/Digital System Design	Lecture + exercise	Winter semester	6	Simon, Sven
Automotive Radar Systems for Autonomous Driving	Lecture	Winter semester	3	Yang, Bin
Applied machine Learning for Engineers	Seminar	Winter semester	6	Ahmad, Aamir
Information Retrieval und text Mining IN GERMAN	Lecture + exercise	Winter semester	6	Falenska, Agnieszka
Basic Principles of Artificial Intelligence	Lecture + exercise	Winter semester	6	Niepert, Mathias
Wireless communications	Lecture + exercise	Winter semester	6	Brink, Stefan ten
Hardware platforms and programming of embedded systems	Lecture + exercise	Winter semester	6	Brink, Stefan ten
Innovation and Technology management	Lecture	Winter semester	3	Rüssel, Oliver
Microwave Analog frontend Design 2	Lecture + exercise	Winter semester	6	Kallfass, Ingmar
Introduction to academic research and writing	Seminar	Winter semester	3	Senatore, Gennaro
Mobile Robotics	Lecture + exercise	Winter semester	6	Arras, Kai
Sensor principles and integrated interface circuits	Lecture + Seminar	Winter semester	6	Anders, Jens
SQ: Play-reading group		Winter semester	3	
Technology Assessment	Lecture	Winter semester	3	Hufendiek, Kai
Writing center: academic writing a la carte		Winter semester	3	
Power Electronics II	Lecture + exercise	Winter semester	6	Roth-Stielow, Jörg
Lasers and Optoelectronics in Aerospace Engineering	Lecture	Winter semester	3	Dekorsy, Thomas
Optische Nachrichtentechnik	Lab course/Fachpraktikum	Winter semester	6	Rademacher, Georg
Optical Signal Processing	Lab course/Fachpraktikum	Winter semester	6	Frühauf, Norbert
MRT Hardware Design	Lab course/Fachpraktikum	Winter semester	6	Anders, Jens
Data-Driven Control	Lecture	Winter semester	3	Allgöwer, Frank
Matrix computations in signal processing and machine learning	Lecture	Winter semester	3	Yang, Bin
Operating Systems	Lecture + exercise	Winter semester	6	Aiello, Marco
Battery modelling and Energy Management	Lecture + exercise	Winter semester	6	Birke, Peter
Sustainable Production Processes	Lecture	Winter semester	3	Tovar, Günther
Space-time Wireless Communication	Lecture + exercise	Summer semester	6	Brink, Stefan ten
Mobile Computing	Lab course	Summer semester	6	Dürr, Frank
Nonlinear Control	Lecture, flipped classroom	Summer semester	6	Allgöwer, Frank
Robust Control	Lecture	Summer semester	6	Scherer, Carsten
Modeling and Analysis of Automation Systems	Lecture + exercise	Summer semester	6	Morozov, Andrey
Machine Learning	Lecture + exercise	Summer semester	6	Staab, Steffen
Dynamics and Control of Legged Locomotion	Lecture	Summer semester	6	Remy, David
IT Service management	Lecture + exercise	Summer semester	6	Kirstädter, Andreas
System and Web Security	Lecture + exercise	Summer semester	6	Küstters, Ralf
Smart Cities and Internet of Things	Lecture + lab	Summer semester	6	Aiello, Marco
Reinforcement learning	Lecture + exercise	Summer semester	6	Niepert, Mathias
Virtual and Augmented Reality	Lecture + exercise	Summer semester	6	Sedlmair, Michael
Deep Learning for Image Processing	Seminar	Summer semester	3	Simon, Sven
Software Engineering for AI-Based Systems	Lecture + exercise	Summer semester	6	Wagner, S
Data Engineering	Lecture + exercise	Summer semester	3	Herschel, Melanie
Applications of High-Frequency Simulation Methods	Lecture	Summer semester	3	Hesselbarth, Jan
Optoelectronics I	Lecture + exercise	Summer semester	6	Saliba, Michael
Advanced CMOS Devices and Technology	Lecture + exercise	Summer semester	6	Burghartz, Joachim
Physical Design of integrated circuits	Lecture + exercise	Summer semester	6	Rademacher, Georg
Microwave Analog Frontend Design I	Lecture + exercise	Summer semester	6	Kallfass, Ingmar
Deep Learning	Lecture + exercise	Summer semester	6	Yang, Bin
Distributed Systems II Algorithms and Concepts and Architectures		Winter + summer semester		
"Distributed Systems II" spans over two semesters	Lecture	Summer semester	6	Becker, Christian
Financial and risk management II	Lecture	Summer semester	6	Schuster, Philipp
Basics of Radio Frequency Technology	Lecture + exercise	Summer semester	6	Zhu, Ningyan
Business Management and Administration	Lecture	Summer semester	3	Brink, Stefan ten
Optical Communications	Lecture + exercise	Summer semester	6	Brink, Stefan ten
Electrical Machines II	Lecture + exercise	Summer semester	6	Parspour, Nejila
Advanced Deep Learning in Speech and Language processing	Lecture + exercise	Summer semester	6	Vu, Ngoc Thang

This list is indicative only and we cannot guarantee that all the courses will be available in the coming semesters!