

Module Code	Course Title	ECTS Credits for Incomings	Teaching Language	Teacher	Comments	Link to official description
1212650	Probabilistic Programming	4	English	Katoen		Link
1212328	Introduction to Model Checking	7	English	Katoen		Link
1212329	Semantics and Verification of Software	6	English	Noll		Link
1212341	Satisfiability Checking	6	English	Ábrahám	<i>Limited number of places (300)</i>	Link
1222882	Model-Based Systems Engineering	6	English-friendly	Rumpe	Note: taught together with "Model-based Software Engineering"	Link
1215686	Model-Based Software Engineering	6	English-friendly	Rumpe	Note: taught together with "Model-based Systems Engineering"	Link
1215755	Diagnostic Standards in the Digital Vehicle Lifecycle	3	English-friendly	Fischer	was formerly "The Digital Lifecycle of Vehicles as a Part of the Internet of Things (IoT)"	not yet available
1235068	Software Architecture	6		Seiger	new course - no more details available yet	not yet available
1212349	Communication Systems Engineering	6	English	Thißen		Link
1233152	Advanced Operating Systems	6	English	Gouicem	<i>Limited number of places (54)</i>	Link
1230527	Advanced Network Security	6	English	Meyer		Link
1226971	IT-Security	6	English	Meyer		Link
1227956	Industrial Network Security	6	English	Henze		Link
1212675	Knowledge Graphs	6	English	Decker	Formerly was "Semantic Web"	not yet available
1211903	Introduction to Bioinformatics	5	English	Berlage		Link
1215694	Introduction to Artificial Intelligence	7	English	Geffner		Link
1230106	Fundamentals of Automatic Speech Recognition	6	English	Schlüter		Link
1227996	Machine Learning with Graphs: Foundations and Applications (Foundations of Learning on Graphs)	6	English	Morris		Link
1216860	Algorithmic Foundations of Datascience	6	English	Grohe		Link
1234967	Advanced Topics in Logic			Grohe	new course - no more details available yet	not yet available
1212336	Infinite Computations and Games	7	English	Löding		Link
1212710	Graph Decompositions and Algorithmic Applications	6	English	Fluck		Link
1231117	Theory of Graph and Network Optimization	5	German/English	Büsing		Link
1212310	Computer Graphics (Basic Techniques in Computer Graphics)	7	English	Kobbelt		Link
1212372	Data Analysis and Visualization	6	English	Kobbelt		Link
1215862	Physically-Based Animation	6	English	Bender		Link
1216861	Introduction to Data Science	6	English	van der Aalst		Link
1211914	Introduction to Web Technologies	6	German	Schroeder		Link
1227457	Fundamentals of Business Process Management	6	English	Leemans		Link
1229150	Business Process Modeling & Computation	6	English	Leemans		Link
1215698	Designing Interactive Systems I	7	English	Borchers	<i>Limited number of places (120)</i>	Link
1212666	Formal Methods for Logic Control Software	6	English	Völker		Link
1215720	High-Performance Computing	7	English	Müller		Link
1221327	Introduction to Algorithmic Differentiation	6	English	Naumann		Link
1211911	High-performance Matrix Computations	7	English	Naumann	does maybe not take place	Link
1211909	Introduction to Virtual Reality (VR I)	6	English	Kuhlen		Link
1215744	Machine Learning	7	English	Leibe		Link
1226970	Elements of Machine Learning and Data Science	6	English	Leibe		Link
1211921	Computer Vision 2	6	English	Leibe		Link
1234968	Cryptography	6		Unruh	new course - no more details available yet	not yet available
1223640	Dynamical Processes on Networks	6	English	Schaub		Link