

Modul	Modulname	Modulname english	Art	Form	Online async.	Prüfung	Dauer Prüfung	Notengewicht	Semester	SWS	ECTS
IB010	Grundlagen der Informatik	Fundamentals of Informatics	PFM	SU		Klausur	60	1,0	1	4	5
IB015	Grundlagen d. theoretischen Informatik	Fundamentals of theor. Informatics	PFM	SU		Klausur	90	1,0	2	4	7
IB015	Praktikum zu Gundlagen d. theoretischen Informatik	Practical Training Fundamentals of theor. informatics	PFM	PR						2	
IB020	Digitaltechnik	Digital technique	PFM	SU		Klausur	60	1,0	1	2	3
IB031	Mathematik I	Mathematics I	PFM	SU		Klausur	90	1,0	1	5	8
IB031	Praktikum Mathematik I	Practical Training Mathematics I	PFM	PR						2	
IB040	Mathematik II	Mathematics II	PFM	SU		Klausur	90	1,0	2	4	7
IB040	Praktikum zu Mathematik II	Practical Training Mathematics II	PFM	PR						2	
IB061	Übung SW-Engineering I	Practical Training SW-Engineering II	PFM	Ü						2	
IB061	SW-Engineering I	SW-Engineering I	PFM	SU		Klausur	90	1,0	2	2	5
IB150	Programmieren I - C	Programming I - C	PFM	SU	10%	Klausur	60	1,0	1	4	5
IB150	Praktikum Programmieren I	Practical Training Programming I	PFM	PR		prakP.sb.P		1,0	1	2	2
IB250	Programmieren II - Java	Programming II - Java	PFM	SU		Klausur	90	1,0	2	4	5
IB250	Praktikum Programmieren II	Practical Training Programming II	PFM	PR		prakP.sb.P			2	2	2
IB300	SW-Engineering II	SW-Engineering II	PFM	SU		Klausur	60	1,0	3	4	7

IB300	Praktikum SW-Engineering II	Practical Training SW-Engineering II	PFM	PR						2	
IB310	Programmieren III	Programming III	PFM	SU		Klausur	90	1,0	3	2	5
IB310	Praktikum Programmieren III	Practical Training Programming III	PFM	PR						2	
IB320	Datenbanken	Database Systems	PFM	SU		Klausur	60	1,0	3	2	3
IB320	Praktikum Datenbanken	Practical Training Database Systems	PFM	PR		prakP.sb.P				2	2
IB330	Algorithmen und Datenstrukturen	Algorithms and data structures	PFM	SU		Klausur	60	1,0	4	2	5
IB330	Praktikum Algorithmen und Datenstrukturen	Practical Training Algorithms and data structures	PFM	PR						2	
IB345	Rechnerarchitektur	Computer Architecture	PFM	SU		Klausur	90	1,0	4	4	5
IB345	Praktikum Rechnerarchitektur	Practical Training Computer Architecture	PFM	PR		prakP.sb.P				2	2
IB351	Praxisorientiertes Studienprojekt	Study project	PFM	StA		portP(Votr.sb,Ausarb)		1,0	6	4	5
IB361	IT-Sicherheit	IT-Security	PFM	SU		Klausur	90	1,0	3	2	5
IB361	Praktikum IT-Sicherheit	Practical Training IT-Security	PFM	PR						2	
IB400	Betriebssysteme	Operating systems	PFM	SU		Klausur	60	1,0	4	2	3
IB400	Praktikum Betriebssysteme	Practical Training Operating systems	PFM	PR		prakP.sb.P				2	2
IB420	Datenkommunikation	Data communication	PFM	SU		Klausur	90	1,0	4	2	3
IB420	Praktikum Datenkommunikation	Practical Training Data communication	PFM	PR		prakP.sb.P				2	2
IB430	Statistik	Statistics	PFM	SU		Klausur	60	1,0	4	3	5

IB430	Praktikum Statistik	Practical Training Statistics	PFM	PR						1	
IB440	Präsentation und Kommunikation	Presentation and communication	PFM	S		Votr.sb	45	1,0	2	4	5
IB500	Praktische Zeit im Betrieb	Internship	PFM	PR		Ausarb		1,0	5		22
IB510	Praxisseminar	Internship Seminar	PFM	S		portP(Votr.sb,Ausarb)	15-45 Min.	1,0	5	2	3
IB520	Projektmanagement	Project management	PFM	SU		Klausur	60	1,0	5	2	3
IB530	IT-Recht	IT-Law	PFM	SU		Klausur	60	1,0	5	2	3
IB540	Projektmanagement	Project management	PFM	SU		Klausur	60	1,0	5	2	3
IB605	Numerik	Numerics	PFM	SU		Klausur	90	1,0	3	2	5
IB605	Praktikum Numerik	Practical Training Numerics	PFM	PR						2	
IB610	Compiler	Compilers	PFM	SU		Klausur	90	1,0	7	2	3
IB610	Praktikum Compiler	Practical Training Compilers	PFM	PR		prakP.sb.P				2	2
IB630	Verteilte Systeme	Distributed systems	PFM	SU		Klausur	60	1,0	6	2	5
IB630	Praktikum Verteilte Systeme	Practical Training Distributed systems	PFM	PR						2	
IB640	Internettechnologien	Internet technologies	PFM	SU		Klausur	90	1,0	6	2	5
IB640	Praktikum Internettechnologien	Practical Training Internet technologies	PFM	PR						2	
IB651	Seminar	Seminar	PFM	S		portP(Votr.sb,Ausarb)	45-60 Min.	1,0	6	2	3
IB700	Prozessrechentchnik	Embedded system design	PFM	SU		Klausur	60	1,0	7	2	3
IB700	Praktikum Prozessrechentchnik	Practical Training Embedded system design	PFM	PR		prakP.sb.P				2	2
IB720	Bachelorarbeit	Bachelor thesis	PFM	-		Ausarb					12

IB735	Studium Generale	General Studies	SG	Fachspez.		Fachspez.	Fachspez.	m.E./o.E.	1-7		6
IB7xx	Fachwiss. Wahlmodul I	Subject related general elective I	WPFM	Fachspez.		Fachspez.	Fachspez.	1,0	3, 4	4	5
IB7xx	Fachwiss. Wahlmodul II	Subject related general elective II	WPFM	Fachspez.		Fachspez.	Fachspez.	1,0	3, 4	4	5
IB7xx	Fachwiss. Wahlmodul III	Subject related general elective III	WPFM	Fachspez.		Fachspez.	Fachspez.	1,0	6	4	5
IB7xx	Fachwiss. Wahlmodul IV	Subject related general elective IV	WPFM	Fachspez.		Fachspez.	Fachspez.	1,0	6, 7	4	5
IB7xx	Fachwiss. Wahlmodul V	Subject related general elective V	WPFM	Fachspez.		Fachspez.	Fachspez.	1,0	6, 7	4	5
AIF312	Modellbasierte Entwicklung I	Model Based Design I	WPFM	SU		Klausur	60	1,0	WiSe	4	7
AIF312	Praktikum Modellbasierte Entwicklung I	Practical Training Model Based Design I	WPFM	PR		prakP.sb.P				2	
AIF630	Autonome Fahrzeuge	Autonomous vehicles	WPFM	SU		Klausur	60	1,0	SoSe	2	3
AIF630	Praktikum Autonome Fahrzeuge	Practical Training Autonomous vehicles	WPFM	PR		prakP.sb.P				2	2
DVM230	Open Government and Open Data	Open Government and Open Data	WPFM	SU		portP(Votr.sb,Ausarb)		1,0	SoSe	2	3
DVM230	Praktikum Open Government and Open Data	Practical Training Open Government and Open Data	WPFM	PR						2	2
DVM410	Process Mining	Process Mining	WPFM	SU		portP(Votr.sb,Ausarb)		1,0	SoSe	2	3
DVM410	Praktikum Process Mining	Practical Training process mining	WPFM	PR						2	2
IB730	SPS-Programmierung mit CoDeSys	PLC Programming with CoDeSys	WPFM	SU		Klausur	60	1,0	WiSe	2	3
IB730	Praktikum SPS-Programmierung	Practical Training PLC programming	WPFM	PR						2	2

IB762	Concepts of Modern Programming Languages	Concepts of Modern Programming Languages	WPFM	SU		Klausur	60	1,0	SoSe	2	3
IB762	Praktikum Concepts of Modern Programming Languages	Practical Training Concepts of Modern Programming Languages	WPFM	PR						2	2
IB764	Internet of Things	Internet of Things	WPFM	SU		Klausur	60	1,0	SoSe	2	3
IB764	Praktikum IoT	Practical Training IoT	WPFM	PR						2	2
IB765	Innovationslabor	Innovation Lab	WPFM	SU		portP(Votr.sb,Ausarb)	60/6-12 Seiten	0,5 / 0,5	WiSe/ SoSe	4	5
IB770	IT-Sicherheit II	IT-Security II	WPFM	SU		Klausur	60	1,0	WiSe	2	3
IB770	Praktikum IT-Sicherheit II	Practical Training IT-Security II	WPFM	PR						2	2
IB772	Einführung in die Digitale Forensik	Introduction to digital forensics	WPFM	SU		Klausur	90	1,0	SoSe	2	3
IB772	Praktikum Digitale Forensik	Practical Training digital forensics	WPFM	PR		prakP.sb.P				2	2
IB777	Algorithmische Spieltheorie	Algorithmical game theory	WPFM	SU		Klausur	60	1,0	6	2	3
IB777	Praktikum Algorithmische Spieltheorie	Practical Training Algorithmical game theory	WPFM	PR					6	2	2
IB778	Mathematik und Zaubern	Mathematics and magic	WPFM	SU		portP(Votr.sb,Ausarb)	60 / wiss. Poster	0,5 / 0,5	7	2	3
IB778	Praktikum Mathematik und Zaubern	Practical Training Mathematics and magic	WPFM	PR						2	2
IB779	Softwaretest und Qualitätssicherung	Software testing and quality assurance	WPFM	SU		mdlPr	20	1,0	7	2	3
IB779	Praktikum Softwaretest und Qualitätssicherung	Practical Training Software testing and quality assurance	WPFM	PR					7	2	2

KI240	Praxisgrundlagen der Informatik	Practical Training Fundamentals of Computer Science	WPFM	SU		Klausur	60	1,0	2	2	3
KI240	Praktikum Praxisgrundlagen der Informatik	Practical Training Practical Fundamentals of Computer Science	WPFM	PR		prakP.sb.P				2	2
KI310	Bildverarbeitung	Image Processing	WPFM	SU		Klausur	60	1,0	WiSe	2	3
KI310	Praktikum Bildverarbeitung	Practical Training Image Processing	WPFM	PR						2	2
KI330	Ethik der KI	AI Ethics	WPFM	SU		portP(Votr.sb,Klausur)	20 / 60	0,80 / 0,20	WiSe	2	3
KI330	Praktikum Ethik der KI	Practical Training AI Ethics	WPFM	PR						2	2
KI350	Machine Learning I	Machine Learning I	WPFM	SU		portP(prakP.sb, Klausur)	60	0,33 / 0,67	WiSe	4	4
KI350	Praktikum Machine Learning I	Practical Training Machine Learning I	WPFM	PR						2	2
KI610	Big Data Algorithms	Big Data Algorithms	WPFM	SU		Klausur	60	1,0	SoSe	2	3
KI610	Praktikum Big Data Algorithms	Practical Training Big Data Algorithms	WPFM	PR						2	2
KI630	Produktions- und Servicelogistik	Production and Service Logistics	WPFM	SU		portP(Votr.sb,Ausarb)	45 Min. / 6-12 Seiten	0,5 / 0,5	SoSe	2	3
KI630	Praktikum Produktions- und Servicelogistik	Practical Training Production and Service Logistics	WPFM	PR						2	2
KI670	Quantencomputing	Quantumcomputing	WPFM	SU		Klausur	60	1,0	6	2	3
KI670	Praktikum Quantencomputing	Practical Training Quantumcomputing	WPFM	PR					6	2	2
KI680	Innovative Kundenkommunikation anhand von Chatbots	Innovative Customer Communication using Chatbots	WPFM	SU		portP(Votr.sb,Ausarb)	45	0,7 / 0,3	SoSe	2	3

KI680	Praktikum Innovative Kundenkommunikation anhand von Chatbots	Practical Training Innovative Customer Communication using Chatbots	WPFM	PR						2	2
KI730	Industrierobotik	Industrial Robotics	WPFM	SU		Klausur	60	1,0	7	2	3
KI730	Praktikum Industrierobotik	Practical Training Industrial Robotics	WPFM	PR					7	2	2
KI770	Time Series Analysis	Time Series Analysis	WPFM	SU		Klausur	60	1,0	WiSe	2	3
KI770	Praktikum Time Series Analysis	Practical Training Time Series Analysis	WPFM	PR						2	2
KI790	3D Game Engines	3D Game Engines	WPFM	SU		portP(Klausur,Vortr.sb,Ausarb)	60 / 20	0,65 / 0,35	WiSe	2	3
KI790	Praktikum 3D Game Engines	Practical Training 3D Game Engines	WPFM	PR						2	2
KI791	AI-Entrepreneurship (Y Combinator Style)	AI-Entrepreneurship (Y Combinator Style)	WPFM	SU		portP(Vortr.sb,Ausarb)	60	0,5 / 0,5	WiSe	2	3
KI791	Praktikum AI-Entrepreneurship (Y Combinator Style)	Practical Training AI-Entrepreneurship (Y Combinator Style)	WPFM	PR						2	2
WIF150	BWL Basismodul Einführung BW	Basic Studies:Introduction to Business Accounting	WPFM	SU		Klausur	60	1,0	WiSe	4	5
WIF360	Geschäftsprozesse und Organisation	Business Process and Process Organisation	WPFM	SU		Klausur	90	1,0	WiSe	2	5
WIF360	Praktikum Geschäftsprozesse und Org.	Practical Training Business Process and Process Organisation	WPFM	PR						2	
WIF460	Operations Research	Operations Research	WPFM	SU		Klausur	90	1,0	SoSe	2	3
WIF460	Praktikum Operations Research	Practical Training operations research	WPFM	PR						2	2
WIF726	AI Applications in Business Informatics	AI Applications in Business Informatics	WPFM	SU		portP(Klausur,Vortr.sb,Ausarb)	20 / 60	0,40 / 0,60	WiSe	2	3

WIF726	Praktikum AI Applications in Business Informatics	Practical Training AI Applications in Business Informatics	WPFM	PR						2	2
WIF727	Bias Mitigation	Bias Mitigation	WPFM	SU		Klausur	60	1,0	SoSe	2	3
WIF727	Praktikum Bias Mitigation	Practical Training Bias Mitigation	WPFM	PR						2	2