

Module Catalogue

for the Subject

Human-Computer-Interaction

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Examination regulations version: 2021 Responsible: Faculty of Human Sciences Responsible: Institute of Human Computer Media

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88|g91|-|-|H|2021



Contents

The subject is divided into	3
Learning Outcomes	4
Abbreviations used, Conventions, Notes, In accordance with	7
Compulsory Courses	8
Principles of Interactive Systems	0
3D User Interfaces	11
Machine Learning	12
Multimodal Interfaces	14
HCI Theories	16
Advanced methods of data analysis	17
Psychology of Interactive Systems	18
Human-Technology-Society	19
HCI Project	20
HCI Seminar	21
Exhibition HCI-Project	22
Scientific Internship	23
Compulsory Electives	24
Interdisciplinary Relations 1	25
Interdisciplinary Relations 2	26
Specialisation HCl 1	27
Specialisation HCl 2	28
Advanced Interactive Systems	29
Advanced Interactive Systems 2	30
Advanced Usability	31
Advanced Human Factors	32
Advanced User Experience	33
Computer Sciences I - Concepts	34
Computer Science II - Theory	35
Computer Sciences III - Application	36
Computer Sciences IV - Praxis	37
Selected Topics of Computer Science	38
Psychological Diagnostics and lest Theory	39
Selected Topics in Unline and Mobile Communication	41
Methods 2 Disital Estrensen surchin	42
Digital Entrepreneursnip Work experience as a recearch and teaching essistent	43
Foundations of HCLA	45
Foundations of HCL a	40
	4/
	48
HCI Master's Thesis	49



The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	70	8
Compulsory Electives	20	24
Thesis	30	48

UNIVERSITÄT WÜRZBURG

Learning Outcomes

German contents and learning outcome available but not translated yet.

Berufsziele

Im viersemestrigen Masterstudiengang (akademischer Grad: "Master of Science, M.Sc.") werden die im Bachelorstudiengang erworbenen grundlegenden Fähigkeiten und Kenntnisse der Human-Computer Interaction vertieft und erweitert. Die Studierenden erlangen die Fähigkeit, eigenständig nach wissenschaftlichen Methoden zu arbeiten und werden auf die Berufspraxis vorbereitet. Das Studium versieht die Studierenden mit einer Berufsfeldqualifikation für ein breites Spektrum an Handlungsfeldern in Organisationen, Institutionen und in der Privatwirtschaft. Die Berufsfelder beziehen sich unter anderem auf

- die Lehre an Schulen, Hochschulen und Universitäten
- die Forschung in universitären und außeruniversitären Forschungseinrichtungen
- Tätigkeiten in der Weiterbildung
- die Industrie und der Logistik
- die Automobil-Branche
- den Öffentlichem Dienst/Behörden
- den Bereich E-Commerce
- die Medizin und Pflege
- als User Experience Designer, Usability Engineer, User Experience Consultant oder Human Factors Spezialist im IT-Bereich (auch leitende Funktionen).

Nach unserer bisherigen Erfahrung sind die Einstellungsaussichten von Absolvent:innen der Human-Computer Interaction sehr gut.

Qualifikationsziele

Das Studienfach Human-Computer Interaction wird von der Fakultät für Humanwissenschaften der JMU als forschungsorientierter Studiengang mit dem Abschluss "Master of Science" (M.Sc.) im Rahmen eines konsekutiven Bachelor- und Master- Studienmodells angeboten. Der Grad des Master of Science stellt einen weiteren berufsqualifizierenden sowie forschungsorientierten Abschluss dar. Nach erfolgreichem Abschluss des Studiums verfügen die Studierenden über folgende Kompetenzen:

1. Allgemeine Kompetenzen

- Kritische Reflexion und Einordnung von wissenschaftlichen Erkenntnissen.
- Schriftliche und mündliche Präsentation erworbener Kenntnisse.
- Durchführung eigener wissenschaftlicher und angewandter Projekte.
- Verfassen wissenschaftlicher Texte nach fachlichen Standards.
- Projektmanagement und Teamarbeit.
- Ethik und professionelles Selbstverständnis.
- 2. Vertiefte Methodische Kompetenzen
 - Analytisches Vorgehen und Abstraktionsvermögen.
 - Algorithmisches Denken und Konstruieren.
 - Verständnis und Strukturierung komplexer Zusammenhänge.
 - Einbettung interaktiver Produkte in organisationale und gesellschaftliche Kontexte.
 - Erweiterte Kenntnisse in Statistik und Versuchsplanung.
- 3. Inhaltliche Kompetenzen
 - Programmierung und programmiertechnische Verfahren.
 - Softwareentwurf und Softwareanalyse.
 - Schnittstellengestaltung interaktiver Systeme.
 - Fortgeschrittene Interaktionstechniken und -paradigmen.
 - Fortgeschrittene statistische Verfahren.
 - Vertiefungen in Usabilty Management, Human Factors und User Experience Design.

Master's with 1 major Human-Computer-Interaction	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re-	page 4 / 49
(2021)	cord Master (120 ECTS) Human-Computer-Interaction - 2021	



- Technische Grundlagen informatischer Systeme.
- Herstellen interdisziplinärer Bezüge zu weiteren Anwendungsfeldern.

Wissenschaftliche Befähigung

- Die Absolvent:innen verfügen über ein breites, detailliertes und kritisches Verständnis der zentralen Theorien und Prinzipien, das den Stand der Fachliteratur sowie vertiefendes Wissen zum aktuellen Stand der Forschung einschließt.
- Die Absolvent:innen verfügen über vertiefte Kenntnisse der forschungsmethodischen und theoretischen Bereiche der Human-Computer Interaction und können auf dieses fundierte Wissen zur Erlangung neuer Erkenntnisse zurückgreifen.
- Die Absolvent:innen besitzen ein differenziertes Methodeninventar, um empirische Fragestellungen strukturieren, analysieren und durchführen zu können.
- Die Absolvent:innen verfügen über einen erweiterten Überblick über Bereiche der Human-Computer Interaction und sind in der Lage, Besonderheiten, Grenzen, Terminologien und Lehrmeinungen (wissenschafts-)theoretisch zu definieren und zu interpretieren.
- Die Absolvent:innen kennen die Gebiete der Psychologie, HCI und Informatik sowie interdisziplinäre Zusammenhänge und entwickeln auf der Grundlage des Wissens und Verstehens eigenständige anwendungs- und forschungsorientierte Ideen.
- Die Absolvent:innen und Absolventen verfügen über Kenntnisse des aktuellen Forschungsstandes in mindestens einem Schwerpunktbereich der Human-Computer Interaction und wenden diese Fähigkeiten und Kenntnisse an, indem sie innerhalb dieses Schwerpunkts selbstständig Projekte mitentwickeln. Sie können ihr Wissen und Verstehen sowie ihre Fähigkeiten zur Problemlösung auch in neuen und unvertrauten Situationen anwenden, die in einem breiteren oder multidisziplinären Zusammenhang mit der Human-Computer Interaction stehen.
- Die Absolvent:innen sind in der Lage, mit Fachvertretern auf dem aktuellen Stand der Forschung Fragestellungen zu diskutieren.
- Die Absolvent:innen sind in der Lage, sich anhand von Primärliteratur, insbesondere in englischer Sprache, in den aktuellen Forschungsstand eines Schwerpunktgebiets einzuarbeiten, diesen zu reflektieren und daraus eigenständige Frage- und Problemstellungen abzuleiten.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Die Absolvent:innen schätzen die eigenen Fähigkeiten ein, nutzen sachbezogene Gestaltungsund Entscheidungsfreiheiten autonom und entwickeln diese unter Anleitung weiter, in dem sie unter Anwendung der wissenschaftlichen Arbeitsweise und unter Beachtung der Regeln guter wissenschaftlicher Praxis Fragestellungen aus der HCI und die Ergebnisse ihrer Arbeit öffentlich vertreten.
- Die Absolvent:innen begründen das eigene berufliche Handeln mit theoretischem und methodischem Wissen und reflektieren es hinsichtlich alternativer Entwürfe.
- Die Absolvent:innen verfügen über ein breites Wissen über ihr Studienfach hinaus. Sie haben grundlegendes Wissen in nicht originären Disziplinen, die aber relevant für HCI und Berufspraxis sind oder Tätigkeitsfelder für die Absolvent:innen bieten.

Persönlichkeitsentwicklung

- Die Absolvent:innen kommunizieren und kooperieren mit anderen Fachvertreterinnen und Fachvertretern, um eine Aufgabenstellung verantwortungsvoll zu lösen und binden Beteiligte unter Berücksichtigung der jeweiligen Gruppensituation zielorientiert in Aufgabenstellungen ein.
- Die Absolventinnen und Absolventen kennen die Regeln guter wissenschaftlicher Praxis und reflektieren ihr berufliches Handeln in Bezug auf diese.
- Die Absolvent:innen verfügen über die Fähigkeit, eigenverantwortlich und selbstständig zu arbeiten. Auch in einem internationalen Umfeld sind sie in der Lage, neue Themen selbstständig zu erschließen und Kontakte zu knüpfen.

Befähigung zum gesellschaftlichen Engagement

Master's with 1 major Human-Computer-Interaction	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data re-	page 5 / 49
(2021)	cord Master (120 ECTS) Human-Computer-Interaction - 2021	

- Die Absolvent:innen können gesellschaftlich relevante Fragestellungen und Entwicklungen der HCI kritisch reflektieren und deren Auswirkungen auf die Wirtschaft, Gesellschaft, Kultur und Politik erfassen und entwickeln ihr berufliches Handeln weiter.
- Die Absolvent:innen können ihr Wissen bezüglich wirtschaftlicher, (bildungs-)politischer, gesellschaftlicher, naturwissenschaftlicher, kultureller etc. Fragestellungen erweitern und begründet Position beziehen.
- Die Absolvent:innen haben die Bereitschaft und Fähigkeit entwickelt, ihre Kompetenzen in partizipative Prozesse einzubringen und aktiv an Entscheidungen mitzuwirken.

Julius-Maxi

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Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

03-Feb-2021 (2021-1)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.





Compulsory Courses

(70 ECTS credits)

Module	e title			Abbreviation		
Princip	les of I	nteractive Systems			10-HCI-PRIS-212-m	01
holdor	of the (Thator		Institute of Comput	or Science	
FCTS	Metho	ad of grading	Only after succ. com	Institute of compation		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	semester graduate					
Conten	ts					
The module teaches requirements, concepts and practical solutions for interactive human-computer systems of extended reality (virtual reality, mixed reality, augmented reality), perceptual computing, computer games and cyber-physical systems. Due to their common characteristics, these systems have recently often been referred to as real-time interactive systems. In the lecture, theoretical models are introduced, requirements of the application domain are derived, and current and novel conceptual and practical solutions are presented. First, conceptual principles for characterizing real-time interactive systems are presented. Then, conceptual models of the mission-critical aspects of time, latencies, processes, and events necessary to describe the behavior of a system are introduced. This is followed by a presentation of the application state, its distribution and coherence requirements, and the consequences of these requirements on decoupling and software quality in general. Then, potential solutions for data redundancy, distribution, synchronization, and interoperability are addressed. Furthermore, concepts underlying virtual reality such as immersion and presence are discussed, as well as various methods for measuring them. Finally, avatars and the concept of embodiment will be discussed. The exercise will provide an insight into practical research work and experiments of the chair as well as a first practical insight into software technologies and frameworks for the creation of interactive real-time systems, e.g. Unity3d and/or Unreal Engine. Intended learning outcomes After participating in the module courses, students are able to recognize basic application scenarios for Interactive Systems. They remember subject-specific approaches and can apply them to adequate problems. They know theoretical models and they can summarize, compare and explain different approaches and evaluate their performance. They can apply available tools to typically occurring tasks and know their advantages and disadvanta-						
Course	S (type, r	number of weekly contact hours, I	language — if other than Ger	man)		
V (2) + Module	Ü (2) e taugh	t in: German and/or Engl	ish			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, informat	ion on whether
a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus						
Allocation of places						
Additional information						
Workload						
Teaching cycle: every semester						
Master's wi (2021)	ith 1 major	r Human-Computer-Interaction	JMU Würzburg ● ge cord Master (120 l	enerated 19-Apr-2025 • exam ECTS) Human-Computer-Inter	n. reg. data re- raction - 2021	page 9 / 49

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Master's degree (1 major) Human-Computer-Interaction (2021) Master's degree (1 major) Computational Mathematics (2022) Master's degree (1 major) Mathematics (2022) Master's degree (1 major) Media Entertainment (2022) Master's degree (1 major) Artificial Intelligence & Extended Reality (2024) Master's degree (1 major) Artificial Intelligence (2024) Master's degree (1 major) Computational Mathematics (2024) Master's degree (1 major) Mathematics (2024)

Module title				Abbreviation	
3D User Interfaces					10-HCI-3DUI-212-m01
Module	coord	inator		Module offered by	
holder	of the (Chair of Computer Scienc	e IX	Institute of Comput	er Science
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The mo mented quality Design groups sentatio nologie	dule pi 3D inte guideli of 2-3 j ons, ex	rovides knowledge about d and virtual reality, mob eraction techniques and c ines are taught as well as participants to develop a ercises and discussions activities and to organize	the possibilities and ile devices, robotics discuss their advanta the theory needed to ppropriate 3D interac help the student grou the project as a who	I specifics of 3D user and computer games ges and disadvanta o implement them. In tion techniques for ups to familiarize the le.	r interfaces in the areas of aug- s. The lecture will introduce high- ges in specific application areas. n the exercise, students work in a virtual reality application. Pre- emselves with the required tech-
Intende	ed learı	ning outcomes			
After pa They kn nes. Stu apply th penden in a joir	articipa iow hig udents nem. S ntly dev nt proto	ting in the module cours h-quality 3D interaction t know advantages and di tudents can independent relop problem-solving pro otype.	es, students will be a cechniques and can re sadvantages of avail ly familiarize themse oposals, communicat	ble to develop 3D us ecall, explain and cla able tools for typical lves with complex te e these in a team an	ser interfaces independently. assify important design guideli- lly occurring tasks and are able to echnical systems as well as inde- id implement and evaluate them
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + I Module	Ü (2) e taugh	t in: German and/or Engl	ish		
Methoo module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) prese b) oral Langua credital	entatio examin ge of a ble for	n of project results (appr ation of one candidate e ssessment: German and, bonus	ox. 30 minutes) or ach (approx. 30 minu ⁄or English	ites)	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Teaching cycle: every year, summer semester					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in Master's degree (a major) Human Computer Interaction (2004)					
Master Master' Master'	s degr s degr s degr	ee (1 major) Artificial Inte ee (1 major) Artificial Inte ee (1 major) Artificial Inte	lligence & Extended I Iligence (2024)	Reality (2024)	

Module title				Abbreviation		
Machin	ie Lear	ning			10-HCI-ML-212-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Computer Scie	nce IX	IX Institute of Computer Science		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	graduate				
Conten	ts					
The lecture module provides a broad introduction to machine learning, data mining, gesture processing, and sta- tistical pattern recognition. Topics include: (i) Supervised learning (parametric/non-parametric algorithms, sup- port vector machines, kernels, neural networks). (ii) Unsupervised learning (clustering, dimensionality reducti- on, recommender systems, deep learning). (iii) Machine learning best practices (data preparation, bias/varian- ce theory, hyperparameter search). To this end, numerous case studies and applications will be presented from gesture-based and multimodal interfaces, text and speech recognition (web search, anti-spam), intelligent ro- bots (perception, control), machine vision, medical informatics, data mining, and other areas. In the exercise, students independently develop a machine learning algorithm from scratch in groups of 2-3 participants. They train and optimize their algorithm to recognize body gestures used to control a given application. Presentations, exercises and discussions help the student groups to familiarize themselves with the required technologies and activities and to organize the project as a whole. Intended learning outcomes After participating in the module courses, students are able to recognize basic application scenarios for machi- ne learning methods. They remember subject-specific approaches and can apply them to different problems. They can summarize, compare and explain different approaches and evaluate their performance. They can ap- ply available tools to typically occurring tasks and know their advantages and disadvantages. Furthermore, you						
Course	S (type, r	umber of weekly contact hour	s, language — if other than Ge	integrate them in a p rman)	prototype.	
V (2) + Module	Ü (2)	t in: German and/or Fr	alish			
Method	d of ass		ruage — if other than German	examination offered — if no	t every semester informati	ion on whether
module is	creditab	le for bonus)	Juage in ethici than eenhan,			
a) preso b) oral Langua credita	entatio examir Ige of a ble for	n of project results (ap ation of one candidate ssessment: German ar bonus	prox. 30 minutes) or e each (approx. 30 minu nd/or English	utes)		
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master's wi (2021)	ith 1 majo	Human-Computer-Interaction	JMU Würzburg ● g cord Master (120	enerated 19-Apr-2025 • exam ECTS) Human-Computer-Inter	. reg. data re- raction - 2021	page 12 / 49

Master's degree (1 major) Human-Computer-Interaction (2021)

Module	Module title				Abbreviation	
Multim	iodal In	iterfaces			10-HCI-MMI-212-mc)1
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Computer Scier	nce IX	Institute of Comput	er Science	
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duration Module level Other prerequisites						
1 seme	ster	graduate				
Conten	Its					
Multim des bo put fro the inte course logy ar dal and examp This in- glemer accom a synet Intend After p modal can su tasks a	Multimodal interactions make use of different modalities to interact with computers or machines. The field inclu- des both analysis and synthesis of multimodal utterances. This course focuses on analysis, i.e., processing in- put from, for example, speech, gestures, touch, gaze direction, or even biosensors. The goal here is to determine the intent of the interactor from multiple channels and signals in order to perform desired (inter-) actions. In this course, students will learn about examples of multimodal interfaces, their advantages, the underlying termino- logy and theoretical background. In addition, students will learn the steps necessary for processing both unimo- dal and multimodal input. As core content, building on this, the fusion of multimodal signals is taught using the example of synergistic speech-gesture interfaces as well as its integration into an interactive real-time system. This includes on the one hand typical aspects of multimodal dependencies, e.g. temporal and semantic entan- glements, and on the other hand prominent approaches to perform multimodal fusion on decision level. In the accompanying exercise, the theoretical contents are deepened by a practical examination of the development of a synergistic speech-gesture interface for a virtual environment. Intended learning outcomes After participating in the module courses, students are able to recognize basic application scenarios for multi- modal interfaces. They remember subject-specific approaches and can apply them to adequate problems. They can summarize, compare and explain different approaches. They can apply available tools to typically occurring					
Course	S (type, r	number of weekly contact hour	s, language — if other than Ge	rman)		
V (2) + Module	0 (2) e taugh	t in: German and/or En	glish			
Metho module is	d of ass s creditab	Sessment (type, scope, lang ole for bonus)	uage — if other than German,	examination offered — if no	ot every semester, informati	ion on whether
a) writt b) pres c) oral Langua credita	en exa entatio examin age of a ble for	mination (approx. 90 m on of project results (ap lation of one candidate lssessment: German an bonus	inutes) or prox. 30 minutes) or each (approx. 30 minu d/or English	ites)		
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Teaching cycle: every year, summer semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master's w (2021)	ith 1 majo	r Human-Computer-Interaction	JMU Würzburg • g cord Master (120	enerated 19-Apr-2025 • exam ECTS) Human-Computer-Inte	n. reg. data re- raction - 2021	page 14 / 49

Master's degree (1 major) Human-Computer-Interaction (2021) Master's degree (1 major) Artificial Intelligence & Extended Reality (2024) Master's degree (1 major) Artificial Intelligence (2024)

Module title			Abbreviation		
HCI Theories					06-HCI-THCI-212-m01
Module	coord	inator		Module offered by	
holder	of the Q	Chair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	Contents				
underst usable. develop and rap this ser to find a	and ho Theori oment i id tech ninar, o a comn	by people use devices at the les in cognitive science a in the early years. In the f inological development h classical and especially n non framework despite a	nd systems and how t bout perception, mot following years, devel nad led to both specia new theoretical appro Il specialization and f	or make those device or skills, memory, et lopments in cognitiv alization and new the aches and methods fragmentation.	es and systems more useful and tc., informed theory and model e science, internationalization, eoretical approaches in HCI. In in HCI will be considered, trying
Intende	d learı	ning outcomes			
After pa in HCI a This kno thus als	Irticipa Ind car owledg so enal	ting in this module, stud distinguish from which t ge enables an assessmen bles a theoretically basec	ents have an extensive traditions certain theory tof the appropriaten and conscious decise	ve knowledge of theo oretical approaches ess of a theory or mo sion for or against a	oretical approaches and methods and methods have emerged. ethod for a specific problem and theory or method.
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method module is	l of ass creditab	s essment (type, scope, langua; le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) writte b) oral e Langua credital	en exar examin ge of a ole for	nination (approx. 120 mi ation of one candidate e ssessment: German and/ bonus	nutes) or ach (approx. 30 minu ⁄or English	ites)	
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	ars in			
Master'	Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title					Abbreviation
Advanc	ed met	hods of data analysis			06-HCI-METH-212-m01
Module	coord	nator		Module offered by	
holder	of the C	hair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
repeate res eac structur various	d meas h inclue re this l statist	sures, regression analysi de a knowledge base acc knowledge themselves. I ical programs are provide	s, and exploratory an ording to the current n addition, e-learning ed.	d confirmatory factor state of research by materials with num	or analysis. The individual lectu- the lecturers. Students actively nerous application examples in
Intende	ed learr	ning outcomes			
After pa be able vantage they are	articipa to inte es and e able t	ting in the module cours rpret the results in scien disadvantages in order to o apply the basic steps c	es, students have kno tific texts. The studer o select the most suit of the application of t	owledge of advance its are able to comp able method for a sj hese methods.	d methods of statistics. They will are the methods regarding ad- pecific problem. Furthermore,
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V/S (2)		-			
module is	creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) writte b) oral Langua credital	en exar examin ge of a ble for	nination (approx. 75 min ation of one candidate e ssessment: German and, bonus	utes) or ach (approx. 30 minu ⁄or English	tes)	
Allocat	ion of p	laces			
Additio	nal info	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
	-				
Module	appea	rs in			
Master'	Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title				Abbreviation	
Psychology of Interactive Systems			o6-HCI-PSY-212-m01		
Module	coord	inator		Module offered by	
holder	of the (Chair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Contents				
In the n luate in psycho rangem mation rent sta	teracti logy, cl ent of overloa	, explanatory models, me ons between humans an inical psychology) and a icons, distraction by drive ad or VR in therapy and re esearch for the acquisitio	ethods and findings fi d technology. Each un pplies it to a human-t er information system ehabilitation). Lecture n of the subject comp	rom psychology are in nit deals with one ar technology interactions or multitasking; c ers present the know petencies.	used to explain, predict and eva- ea of psychology (e.g., cognitive on (e.g., cognitive: design and ar- linical: internet addiction, infor- vledge base according to the cur-
Intende	ed learr	ning outcomes			
gy and knowle to psyc field of cies, th	their po dge en hologio humar e focus	ables students on the on cal principles and on the computer interaction or s is on social and persona	ents with have extens uman-computer inter- e hand to analyze, de other hand to genera n the basis of psychol al competencies.	action. They will be a esign and evaluate in te possible further q logical principles. In	able to explain examples. This nteractive systems with regard juestions and applications in the addition to technical competen-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Methoo module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) prese b) writt c) oral e Langua credital	entatio en exai examin ge of a ble for	n (approx. 30 minutes) w mination (approx. 90 min ation of one candidate e ssessment: German and, bonus	ith handout (approx. utes) or ach (approx. 30 minu ⁄or English	2 pages) or tes)	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teachir	Teaching cycle				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	appea	irs in			
Master	Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title				Abbreviation	
Human-Technology-Society				06-HCI-MTG-212-m01	
Module	coord	inator		Module offered by	
holder	of the (Chair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Contents				
The cor ciety, e state be yes or r sociolo Studen sharp fe	The content of this module deals with currently controversial topics at the interface between technology and so- ciety, e.g. Should we use robots in elderly care? Is the internet making the world more democratic? Should the state be allowed to monitor our data traffic? Many of the questions that arise cannot be answered simply with a yes or no. This module introduces the topic area of technology and society by looking at current problems in the sociology of technology and ethics and allows students to develop their own responses to these controversies. Students debate current social issues related to technology use. In the process, pros and cons are brought into share focus and current opinion patterns are questioned.				
Intende	ed learr	ning outcomes			
After pa theories others' petence velops sivenes	articipa s and t points e by de their ge ss.	ting in the module course opics related to human-to of view, argue for or agai veloping their ethical aw eneral communicative co	es, students are able echnology. In a debat nst them, and assess areness and individu mpetencies in terms	to describe, analyze te, they show that th 5 their implications. al professional value of expressiveness, c	e and contrast current social ey can summarize their own and Students develop their self-com- es. Participation in a debate de- onversational skills and persua-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Methoc module is	l of ass creditab	e ssment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) prese b) term c) oral e Langua credital	entatio paper examin ge of a ble for	n (approx. 25 minutes) or (approx. 15 pages) or ation of one candidate ea ssessment: German and, bonus	ach (approx. 30 minu ′or English	tes)	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teachir	ng cycl	9			
Referred to In LPU I (examination regulations for teaching-degree programmes)					
 Module	annes	irs in			
Master'	s degre	ee (1 major) Human-Com	outer-Interaction (202	21)	

Module title					Abbreviation
HCI Project					06-HCI-Proj-152-m01
Module	e coord	inator		Module offered by	
chairpe gree pr	erson of ogramr	f examination committee ne Human-Computer Inte	of the Master's de- eraction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Practic teractic specific arch or	al expe on (HCI) ed rese n huma	rience is a necessary skil , which requires technica arch project or task that n-computer interaction a	I for scientific researd al, psychological and they have to solve mo nd combines technic	ch. This applies in pa empirical skills. In t ostly independently. al and empirical or p	articular to human-computer in- his module, students work on a The topic is derived from rese- osychological aspects.
Intende	ed learı	ning outcomes			
After pa ge with tured p skills.	articipa an inte process	ting in the module cours erdisciplinary informatics es and develop their met	es, students are able and/or psychology f hodological compete	to apply their metho ocus. They can work nce, communicative	odological and content knowled- according to self-created struc- competence and cooperation
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (1)					
Metho module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
report (Langua credita	(approx age of a ble for	. 15 pages) ssessment: German and, bonus	or English		
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	's degr	ee (1 major) Human-Com	puter-Interaction (20:	15)	
Master	's degri	ee (1 major) Human-Com ee (1 major) Human-Com	puter-interaction (20) puter-interaction (20)	21)	
master's degree (1 major) numan-computer-interaction (2021)					

Module title				Abbreviation	
HCI Seminar					o6-HCI-Sem-152-mo1
Module	e coord	inator		Module offered by	
chairpe gree pr	erson o ogrami	f examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Sound the scie pical se During will hav stions	researd entific i cientific the couve to fir and/or audienc	ch requires an in-depth re media (conference procee c research work with a sp urse, students will have to nd relevant publications, categories of the current ce.	eflection of prior appr edings, journals, boo ecific focus on topics o work on one specifi read the publications state-of-the-art. They	oaches and the relat ks, etc.). This course from the field of hu c topic as a preparat s and analyze them g have to summarize	ted work typically published in e is an advanced course about ty- man-computer interaction (HCI). tion for their master thesis. They given some defined research que- and present their findings to a
Intend	ed lear	ning outcomes			
After th They w marize	ie cours ill have their fi	se, the participants will h learned how to read scie ndings.	ave a solid understai entific publications, h	nding of an importan low to extract releva	t aspect of typical research work. nt information, and how to sum-
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Metho module is	d of ass s creditab	Sessment (type, scope, langua; ile for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
talk (ar Langua credita	oprox. g ige of a ble for	30 minutes) ssessment: German and/ bonus	or English		
Allocat	ion of _l	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Magtaria degree (a major) Human Computer Interaction (2005)					
Master	Master's degree (1 major) Human-Computer-Interaction (2015) Master's degree (1 major) Human-Computer-Interaction (2018)				
Master	Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title Abb					Abbreviation
Exhibition HCI-Project					06-HCI-Exhib-152-m01
Module	coord	inator		Module offered by	
chairpe gree pr	erson of ogramr	f examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Present science present	tation a es. This t the re	Ind communication are in is specifically true for Hu sults of an associated pro	nportant skills for ap Iman-Computer Inter oject to a larger audie	plication-oriented an action (HCI). This con ence in a and exhibit	nd practical aspects of various urse requires the participants to ion-like setup.
Intende	ed learr	ning outcomes			
After pa design questio	articipa and im ons fror	ting in this module, parti plement the various com n the audience.	cipants will be able t ponents of a trade sh	o present their own now booth and respo	work to a larger audience, plan, and professionally to individual
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (0.5)					
Methoo module is	d of ass creditab	e essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
present Langua credita	tation c ge of a ble for	of project results (approx ssessment: German and, bonus	. 10 minutes) /or English		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master' Master' Master'	Master's degree (1 major) Human-Computer-Interaction (2015) Master's degree (1 major) Human-Computer-Interaction (2018) Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title					Abbreviation
Scienti	fic Inte	rnship			06-HCI-WPrakt-182-m01
Module	coord	inator		Module offered by	
chairpe gree pro	rson of ogramr	examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
The scie factors red dur	entific i in scie ing the	nternships provide insig ntific research institution ir studies in scientific res	hts into research in t s. The students shou search.	he fields of HCI, user Ild apply and deeper	r experience, usability or human n the knowledge and skills acqui-
Intende	ed learn	ning outcomes			
After pa to new persona	articipa researc al skills	ting in this module, stud h questions. Through co and create a scientific b	ents will be able to a ntact with the world o pasis for their future p	pply theoretical and of research, they dev professional activity.	practical aspects of their studies velop methodological, social and
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (0)					
module is	creditab	l essment (type, scope, langua le for bonus)	ge — If other than German, e	examination offered — if no	it every semester, information on whether
report c Langua	on work ge of a	x placement (approx. 2 pa ssessment: German and,	ages) /or English		
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Additio	nal info	ormation on module dura	tion: 8 weeks.		
Worklo	ad				
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master'	s degre	ee (1 major) Human-Com	outer-Interaction (20	18)	
Master'	s degre	ee (1 major) Human-Com	outer-Interaction (202	21)	





Compulsory Electives

(20 ECTS credits)

Module title					Abbreviation
Interdisciplinary Relations 1					06-HCI-ID1-152-m01
Modul	e coord	inator		Module offered by	
chairpe gree pr	erson of ogramr	f examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conter	ts				
In this red so of tech	module far in th nology,	e, references are made to ne course of study, e.g. m psychology, computer so	neighboring science edia communication cience, museology, d	s that expand and de , business information igital humanities, ge	eepen the competencies acqui- cs, interaction design, sociology eography, and others.
Intend	ed learı	ning outcomes			
After p fields o ration a	articipa of scien and cor	ting in this module, stud ce and application. They oflict resolution in interdis	ents will recognize a develop knowledge, sciplinary teams.	nd understand probles skills and abilities re	ems and methods in the related elated to communication, coope-
Course	S (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Metho module is	d of ass s creditab	s essment (type, scope, languag le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus 					
Allocat	ion of p	olaces			
	-				
Additio	onal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Human-Computer-Interaction (2015)					
Master	"s degri 's degri	ee (1 major) Human-Comp ee (1 major) Human-Comp	outer-Interaction (20)	18 <i>)</i> 21)	
master s degree (1 major) numan-computer-interaction (2021)					

Module title				Abbreviation		
Interdisciplinary Relations 2					06-HCI-ID2-152-m01	
Module coordinator				Module offered by		
chairpe gree pr	erson of ogramr	f examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
In this red so of tech	module far in th nology,	e, references are made to ne course of study, e.g. m , psychology, computer so	neighboring science edia communication cience, museology, d	s that expand and de , business information ligital humanities, ge	eepen the competencies acqui- cs, interaction design, sociology eography, and others.	
Intend	ed learı	ning outcomes				
After pa fields o ration a	articipa of scien and cor	ting in this module, stud ce and application. They flict resolution in interdis	ents will recognize a develop knowledge, sciplinary teams.	nd understand probl skills and abilities re	ems and methods in the related elated to communication, coope-	
Course	S (type, n	number of weekly contact hours, la	anguage — if other than Ger	man)		
S (2)						
Metho module is	d of ass s creditab	sessment (type, scope, languag le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus 						
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master	Master's degree (1 major) Human-Computer-Interaction (2015)					
Master	''s degri	ee (1 major) Human-Comp ee (1 major) Human-Comp	outer-Interaction (20)	18) 21)		
master s degree (1 major) numan-computer-interaction (2021)						

Module title				Abbreviation	
Specialisation HCI 1					06-HCI-VHCI-1-152-m01
Module	coord	inator		Module offered by	
chairpe gree pro	rson o ogramr	f examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	ıpl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Content	ts				
In this r de, whi teractio phy, etc	nodule ch exp on designer.	e, the contents of the deg and and deepen the skill gn, sociology of technolo	ree courses are deep s already acquired, e gy, psychology, comp	ened and references .g. media communic outer science, musec	to neighboring sciences are ma- ation, business informatics, in- ology, digital humanities, geogra-
Intende	ed leari	ning outcomes			
After pa their ow tence, c coopera	articipa vn subj commu ation.	ting in this module, stud ect as well as in related f nicative competence, coo	ents will be able to n ields of science and operation skills and t	ame and explain typ application. They de he ability to deal wit	ical problems and methods in velop methodological compe- h conflicts in interdisciplinary
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method module is	l of ass creditab	eessment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for honur. 					
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Human-Computer-Interaction (2015)					
Master'	s degr	ee (1 major) Human-Comp	outer-Interaction (20:	18)	
Master'	s dear	e (1 major) Human-Comp	uter-Interaction (201)	9) 21)	

Module title				Abbreviation	
Specialisation HCI 2					06-HCI-VHCI-2-152-m01
Module	coord	inator		Module offered by	
chairpe gree pro	rson of ogramr	examination committee ne Human-Computer Inte	of the Master's de- raction	Institute of Human (Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
In this r de, whi teractio phy, etc	nodule ch exp n desig	, the contents of the deg and and deepen the skill gn, sociology of technolo	ree courses are deep s already acquired, e gy, psychology, comp	ened and references .g. media communic outer science, musec	to neighboring sciences are ma- ation, business informatics, in- plogy, digital humanities, geogra-
Intende	d lear	ning outcomes			
After pa their ow tence, c coopera	rticipa vn subj commu ation.	ting in this module, stud ect as well as in related f nicative competence, co	ents will be able to n ields of science and operation skills and t	ame and explain typi application. They dev he ability to deal wit	ical problems and methods in velop methodological compe- h conflicts in interdisciplinary
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Method module is	l of ass creditab	essment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 					
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master' Master' Master'	s degre s degre s degre	ee (1 major) Human-Comp ee (1 major) Human-Comp ee (1 major) Human-Comp	outer-Interaction (201 outer-Interaction (201 outer-Interaction (201	15) 18) 21)	

Module title					Abbreviation	
Advanced Interactive Systems					10-HCI-AIS1-152-m01	
Module coordinator				Module offered by		
holder	of the O	Chair of Computer Scienc	e IX	Institute of Comput	er Science	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	graduate				
Conten	ts					
The mo A specia form a o al-time and aug	dule te al focu commo are cru gmente	aches in-depth requirem s is on systems for the re in system in a closed inpu- icial. Possible examples i ed reality systems.	ents, concepts and p alization of human-co ut-output loop and re nclude classical grap	ractical solutions in omputer interaction, quirements of differ hical interfaces, we	the field of interactive systems. in which user and computer ent degrees of reactivity up to re- b-based solutions, and virtual	
Intende	d learn	ning outcomes				
After pa ties and ber sub sulting	irticipa l featur ject-sp develo	ting in the module course res of interactive comput ecific methods for imple pment processes and int	es, students will be a er systems. They will menting interactive sy erpret the results.	ble to recall, classify be able to explain a ystems, can plan the	/ and summarize basic capabili- nd compare them. They remem- eir application, implement the re-	
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Method module is	l of ass creditab	s essment (type, scope, langua; le for bonus)	ge — if other than German, e	xamination offered — if no	t every semester, information on whether	
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 						
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	Workload					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master'	s degre	ee (1 major) Human-Comp	outer-Interaction (201	.5) 8)		
Master'	s degre	ee (1 major) Human-Comp	outer-Interaction (201	.o, 21)		

mouule lille	Abbreviation				
Advanced Interactive Systems 2		10-HCI-AIS2-152-m01			
Module coordinator		Module offered by			
holder of the Chair of Computer Scien	ce IX	Institute of Comput	er Science		
ECTS Method of grading	Only after succ. com	pl. of module(s)			
5 numerical grade					
Duration Module level	Other prerequisites				
1 semester graduate					
Contents					
The module teaches in-depth requirer A special focus is on systems for the r form a common system in a closed in al-time are crucial. Possible examples and augmented reality systems.	nents, concepts and p ealization of human-co out-output loop and re include classical grap	ractical solutions in omputer interaction, quirements of differ hical interfaces, we	the field of interactive systems. , in which user and computer ent degrees of reactivity up to re- b-based solutions, and virtual		
Intended learning outcomes	_				
After participating in the module cours ve systems. They are able to recall, cla stems. They can explain and compare menting interactive systems, can plan terpret the results.	ses, students will have assify and summarize them. They remember their application, imp	e deepened their exp capabilities and feat r comprehensive sub lement the resulting	pertise in the field of interacti- tures of interactive computer sy- pject-specific methods for imple- g development processes and in-		
Courses (type, number of weekly contact hours,	language — if other than Ger	man)			
S (2)					
Method of assessment (type, scope, langumodule is creditable for bonus)	age — if other than German, e	examination offered — if no	ot every semester, information on whether		
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Reterred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Human-Con Master's degree (1 major) Human-Con Master's degree (1 major) Human-Con	nputer-Interaction (201 nputer-Interaction (201 nputer-Interaction (201	6) 8) 21)			

Advanced Usability o6-HCI-UM-152-mo1 Module coordinator Module offered by holder of the Chair of Psychological Ergonomics Institute of Human Computer Media ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade					
Module coordinator Module offered by holder of the Chair of Psychological Ergonomics Institute of Human Computer Media ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade					
holder of the Chair of Psychological Ergonomics Institute of Human Computer Media ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade					
ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade					
5 numerical grade					
Duration Module level Other prerequisites					
1 semester graduate					
Contents					
In this module, the content, methods and applications of usability research are taught in depth, i.e. the desi human-computer systems along the criteria of effectiveness, efficiency and satisfaction during use. Example application come from industrial use, public and private space.					
Intended learning outcomes					
After participating in this module, students will be able to name the principles of selected usability methods domains and will be able to design user interfaces themselves as well as conduct studies to investigate issue the field of human-system interaction. Furthermore, they are able to explain the advantages and disadvantage of different usability methods, analyze and evaluate empirical studies as well as design solutions.					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whet module is creditable for bonus)					
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Human-Computer-Interaction (2015) Master's degree (1 major) Human-Computer-Interaction (2018) Master's degree (1 major) Human-Computer-Interaction (2021)					

Module title				Abbreviation	
Advanced Human Factors					06-HCI-HF-152-m01
Module coordinator				Module offered by	
holder	of the O	hair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
In this r fety-crit in huma tion. St	nodule ical sy: an-syst udents	e, the knowledge and met stems. For example, this em interaction. The semi might also carry out sma	hods of human facto module can include a nar would cover the b Ill research projects i	rs research are taug a seminar on the use basics of eye trackin n which they apply w	ht in depth, i.e. the design of sa- e and application of eye tracking g and possibilities of its applica- what they have learnt.
Intende	ed learn	ning outcomes			
After pa and dor of huma thods, o	articipa mains a an-syst can ass	ting in this module, the s and are able to carry out s em interaction. Furtherm sess and critically evaluat	tudents understand t studies themselves ir ore, they can assess te empirical studies.	the principles of sele n order to address re the advantages and	ected human factors methods search questions from the area disadvantages of various me-
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Method module is	l of ass creditab	s essment (type, scope, languag le for bonus)	ge — if other than German, e	xamination offered — if no	t every semester, information on whether
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 					
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master' Master' Master'	Master's degree (1 major) Human-Computer-Interaction (2015) Master's degree (1 major) Human-Computer-Interaction (2018) Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title			Abbreviation		
Advanced User Experience					06-HCI-UX-152-m01
Module	coord	inator		Module offered by	
holder	of the C	hair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
This mo human- and priv service	odule p compu vate sp design	rovides in-depth content Iter systems with regard t heres and include, for ex	, methods and applic to a good user experi ample, customer sat	ations of user exper ence. Examples of a isfaction, persuasive	ience research, i.e. the design of pplication come from the public e interfaces, aesthetic design and
Intende	d learr	ning outcomes			
After participating in this module, students will be able to name the principles of selected user experience me- thods and domains and will be able to design user interfaces themselves as well as conduct studies to investiga te corresponding questions from the field of human-system interaction. Furthermore, they will be able to explain the advantages and disadvantages of different user experience methods and analyze and evaluate empirical stu dies and design solutions.					f selected user experience me- Il as conduct studies to investiga- nore, they will be able to explain alyze and evaluate empirical stu-
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Method module is	l of ass creditab	essment (type, scope, languag le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English 					
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
Module	appea	irs in		<u>``</u>	
Master' Master'	Master's degree (1 major) Human-Computer-Interaction (2015) Master's degree (1 major) Human-Computer-Interaction (2018)				
Master's degree (1 major) Human-Computer-Interaction (2021)					

Module title				Abbreviation	
Compu	ter Sci	ences I - Concepts			10-HCI-Inf01-152-m01
Module	e coord	inator		Module offered by	
holder	of the (Chair of Computer Scienc	e IX	Institute of Comput	er Science
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The mo the foll	dule p owing t	rovides a shell module. S topic: Concepts of Compu	tudents may receive uter Science.	credit for a target mo	odule from Computer Science on
Intende	ed lear	ning outcomes			
Accordi	ing to t	he specification of the im	ported module.		
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places					
Additio	nal inf	ormation			
Workload					
			s for teaching-degree progra	iiiiies)	
Module	20002	are in			
Master	's degr	ee (1 maior) Human-Com	outer-Interaction (202	15)	
Master	's degr	ee (1 major) Human-Com	outer-Interaction (20)	18)	
Master	Master's degree (1 major) Human-Computer-Interaction (2018) Master's degree (1 major) Human-Computer-Interaction (2021)				

Module title			Abbreviation		
Comput	ter Scie	ence II - Theory			10-HCI-Inf02-152-m01
Module	coord	inator		Module offered by	
holder	of the C	Chair of Computer Science	e IX	Institute of Comput	er Science
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	numei	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
The mo the follo	dule pr owing t	rovides a shell module. S copic: Theoretical Founda	tudents may receive tions of Computer Sc	credit for a target mo ience.	odule from Computer Science on
Intende	ed learr	ning outcomes			
Accordi	ng to tl	he specification of the im	ported module.		
Courses	S (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	DIaces			
Additio	nal inf	ormation			
	nat mit				
Worklo	ad				
150 h					
Teaching cycle					
<u></u>					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master' Master' Master'	s degre s degre s degre	ee (1 major) Human-Comp ee (1 major) Human-Comp ee (1 major) Human-Comp	outer-Interaction (202 outer-Interaction (202 outer-Interaction (202	15) 18) 21)	

Module title			Abbreviation		
Compu	ter Scie	ences III - Application			10-HCI-Info3-152-m01
Module	coord	inator		Module offered by	
holder	of the C	hair of Computer Scienc	e IX	Institute of Comput	er Science
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The mo	dule pr owing t	ovides a shell module. S opic: Fundamentals of Co	tudents may receive omputer Science App	credit for a target mo lications.	odule from Computer Science on
Intende	ed learr	ning outcomes			
Accordi	ng to tl	he specification of the im	ported module.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus					
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Workload					
150 h	150 h				
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	rs in			
Master	s degre	ee (1 major) Human-Com	outer-Interaction (201	15)	
Master'	s degre	ee (1 major) Human-Comp	outer-Interaction (201	18)	
Master's degree (1 major) Human-Computer-Interaction (2021)					

Module title			Abbreviation		
Comput	ter Scie	ences IV - Praxis			10-HCI-Info4-152-mo1
Module	coord	inator		Module offered by	
holder	of the (Chair of Computer Scienc	e IX	Institute of Comput	er Science
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
The mo followir	dule pi 1g topi	rovides a shell module. S c: Practical Applications of	tudents may receive of Computer Science.	credit for a target co	mputer science module on the
Intende	ed learr	ning outcomes			
Accordi	ng to t	he specification of the im	ported module.		
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus Allocation of places					
Additio	natinf				
 Worklo					
Peferred to in I PO L (examination regulations for teaching degree programmed)					
Module appears in					
Master'	s degre	ee (1 major) Human-Com	outer-Interaction (201	15)	
Master' Master'	s degre	ee (1 major) Human-Comp ee (1 major) Human-Comp	outer-Interaction (201	18) 21)	
Master's degree (1 major) Human-Computer-Interaction (2021)					

Module title				Abbreviation		
Selected Topics of Computer Science					10-HCI-AK-152-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Computer Scienc	e IX	Institute of Comput	er Science	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Selecte	d topic	s in computer science.				
Intende	ed leari	ning outcomes				
After pa comple implem	articipa x probl ient an	ting in the module cours lems in computer science d evaluate them.	es, students are able e. They are able to tra	to understand and on sfer the solution ap	comprehend the solutions to pproaches to related problems,	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
 a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes) Language of assessment: German and/or English creditable for bonus 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teachir	ıg cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degr	ee (1 major) Human-Com	outer-Interaction (201	15)		
Master	's degr	ee (1 major) Human-Com	outer-Interaction (201	.8)		
Master's degree (1 major) Human-Computer-Interaction (2021)						

Module title			Abbreviation			
Psychological Diagnostics and Test Theory				06-HCI-DTT-152-mo	1	
Module coordinator			Module offered by	Module offered by		
holder gy, Pers	of the (sonality	Chair of Psychology V - D / Psychology, and Psych	ifferential Psycholo- ological Diagnostics	Institute of Psychol	ogy	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Psychological diagnostics is understood as a practice-related professional testing, measuring, acting and deci- sion-making that is based on strict methodological criteria. The main focus is on classical test theory and pro- babilistic test theory, test construction, item characteristics and quality criteria. In addition, the diagnostic me- thods, procedures and approaches for capturing individual differences through observation, questioning, tests, questionnaires and their presentation in findings reports and assessments as well as classification systems their characteristics, classification errors and sources of error, the indication and the diagnostic process are presen- ted. In addition, an introduction to the technical mastery of selected psychodiagnostic procedures is given and the approaches to scientifically guided professional action and decision-making are treated. Intended learning outcomes Knowledge of classical and probabilistic approaches to test and questionnaire design as well as terms and me- thods for evaluating tests and questionnaires. Knowledge about the planning and development of tests, item analyzes, factor analyzes, quality criteria. Introduction to standardized survey methods for differential psycholo- gy, personality research and psychological diagnostics.						
V(2) + 1	(,)) ()			inany		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written Module psycho Diagnos	examin s offer logie u sis) at t	nation (approx. 120 minu ed will vary according to nd Psychologische Diagu the Institute of Psycholo	ites) resources of research nostik (Differential Ps gy	n group Differentielle ychology, Personalit	Psychologie, Persö y Psychology and Ps	ılichkeits- ychological
Allocati	ion of p	olaces	- ·			
max. 5 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot.						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	irs in)		
Master' Master'	s degro	ee (1 major) Human-Com ee (1 major) Human-Com	puter-interaction (20) puter-interaction (20)	15) 18)		
Master's wi (2021)	th 1 majoı	Human-Computer-Interaction	JMU Würzburg • g cord Master (120	enerated 19-Apr-2025 • exam ECTS) Human-Computer-Inter	. reg. data re- action - 2021	page 39 / 49





Master's degree (1 major) Human-Computer-Interaction (2021)

Module title					Abbreviation
Selected Topics in Online and Mobile Communication			Communication		06-HCI-OMK-182-m01
Modul	e coord	inator		Module offered by	
holder New M	of the (edia	Chair of Psychology of Co	mmunication and	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conter	Its				
This m and mo and mo	odule is obile m obile co	s aimed at providing an a edia use. Current theorie mmunication are introdu	dvanced introduction s and results on hum Iced.	n in the scientific psy an experience and b	chological perspective on online behavior in the context of online
Intend	ed lear	ning outcomes			
Studer from a sults o	nts have scienti n huma	e intensified their abilities fic psychological perspec in experience and behavi	s to structure and des tive. Students acquir or in the context of o	scribe online and mo re in-depth knowleds nline and mobile co	bbile communication phenomena ge about current theories and re- mmunication.
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
 a) written examination (approx. 60 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (15 to 45 minutes) and written elaboration (10 to 15 pages) or d) term paper (15 to 20 pages) or e) portfolio (maximum 20 pages) Language of assessment: German and/or English 					
Allocat	ion of p	olaces			
max. 3	2 place	S			
Additio	onal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Modul	e appea	nrs in			
Master	's degr	ee (1 major) Human-Com	puter-Interaction (20	18)	
Master's degree (1 major) Human-Computer-Interaction (2021)					

Module title			Abbreviation		
Methods 2					06-MK-ME2-182-m01
Module	coord	inator		Module offered by	
all four o dienkon	core Pr nmuni	ofessorships of the degr kation (Media Communic	ee programme Me- ation)	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. con	ıpl. of module(s)	
5	numei	rical grade			
Duration	n	Module level	Other prerequisites		
1 semes	ter	graduate			
Content	S				
This mo data col data col as eye ti	dule d lectior lectior racking	iscusses advanced techr n techniques that are use n techniques (e.g. writter g or physiological measu	iques of data collect d in media communi n surveys), this modu res.	ion. Students should cation research. Bas Ile covers, for examp	d obtain an overview of different ed on the knowledge of common ele, innovative techniques such
Intende	d learr	ning outcomes			
Student pen thei techniqu	s shou ir meth ues.	ıld acquire a profound kn nodological skills. In addi	owledge of the data tion, students shoul	collection technique d become acquainte	es discussed and should dee- d with innovative data collection
Courses	(type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)	
S (2)					
Method	of ass	essment (type, scope, langua	ge — if other than German, o	examination offered — if no	t every semester, information on whether
a) written examination (approx. 60 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (15 to 45 minutes) and written elaboration (10 to 15 pages) or d) term paper (15 to 20 pages) or e) portfolio (maximum 20 pages) Language of assessment: German and/or English creditable for bonus					
Allocati	on of p	olaces			
Addition	nal info	ormation			
Workload					
150 h					
Teachin	g cycl	9			
Referred	to in	LPO I (examination regulations	for teaching-degree progra	mmes)	
 Modula	anna -	re in			
Master	appea	ns III An (1 major) Human-Comr	outer-Interaction (20)	18)	
Master's	s degre	ee (1 major) Human-Comp	outer-Interaction (20)	21)	

Module title			Abbreviation		
Digital Entrepreneurship					12-M-UGF3-182-m01
Module	coord	inator		Module offered by	<u> </u>
holder	of the (Chair of Entrepreneurship	and Strategy	Faculty of Managem	nent and Economics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
This mc (2) Digi for crea funding (10) Dig Wrap-u	odule p tal bus ting co for en gital str p and (rovides an introduction i iness models (3) Identify mpetitive advantage in d trepreneurs (7) Design th ategy and digital transfor Q&A	nto digital entreprene ing and exploiting op ligital entrepreneursh inking (8) Lean startu mation (11) The agile	eurship and digital tr portunities for digita nip (5) Digital market up (9) Platform ecosy organization (12) Cr	ransformation. (1) Introduction al entrepreneurship (4) Strategies ing for entrepreneurs (6) Crowd- ystems and online communities rowdsourcing (13) Cyberfraud (14)
Intende	ed learr	ning outcomes			
Educational aims: Clarify the role of digital entrepreneurship and digital transformation. Explain theoretical con- cepts and mechanisms behind digital entrepreneurship and digital transformation. Enable students to critically appraise alternative approaches to digital entrepreneurship and digital transformation. Enable students to eva- luate the boundaries and risks of digital entrepreneurship and digital transformation Learning outcomes: On successful completion of this module students will be able to (1) Assess the role of di- gital entrepreneurship and digital transformation for creating and sustaining competitive advantage, (2) Crea- te and evaluate concepts related to digital entrepreneurship and digital transformation, (3) Make judgements about the organizational and managerial implications of digital entrepreneurship and digital transformation, (4) Systematically choose between different routes of action					
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2) + Module	Ü (2) e taugh	t in: English			
Methoo module is	l of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) written examination (approx. 60 to 120 minutes) or b) term paper (15 to 20 pages) or c) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) Language of assessment: English					
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Teaching cycle: summer semester					
Referre	d to in	LPOI (examination regulations	s for teaching-degree progra	mmes)	
Module appears in					
Master's degree (1 major) Human-Computer-Interaction (2018)					

Naster's with 1 major Human-Computer-Interaction	1
2021)	

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Master (120 ECTS) Human-Computer-Interaction - 2021

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

Master's degree (1 major) Management (2018)
Master's degree (1 major) International Economic Policy (2018)
Master's degree (1 major) China Business and Economics (2019)
Master's degree (1 major) China Language and Economy (2019)
Master's degree (1 major) Information Systems (2019)
Master's degree (1 major) China Business and Economics (2021)
Master's degree (1 major) China Language and Economy (2021)
Master's degree (1 major) Human-Computer-Interaction (2021)
Master's degree (1 major) Economathematics (2021)
Master's degree (1 major) Information Systems (2022)
Master's degree (1 major) International Economic Policy (2022)
Master's degree (1 major) Management (2022)
Master's degree (1 major) Economathematics (2022)
exchange program Business Management and Economics (2022)

Module title					Abbreviation	
Work experience as a research and teaching assistant				o6-HCI-Tut-152-mo1		
Module coordinator				Module offered by		
chairperson of examination committee of the Master's de- gree programme Human-Computer Interaction			of the Master's de- eraction	Institute of Human Computer Media		
ECTS	ECTS Method of grading Only after succ.			ompl. of module(s)		
5	(not) s	successfully completed	essfully completed			
Duration Module level		Other prerequisites				
1 semester		graduate				
Conten	Its					
The students work as tutors (research and/or teaching assistants) in the context of the Bachelor's program Hu- man-Computer Systems (HCI) and/or the Master's program Human-Computer Interaction (HCI, German: Men- sch-Computer-Interaktion). The work tasks are determined individually and include typical activities from the academic work environment						
Intend	ed lear	ning outcomes				
conduct results-oriented conversations with students. They are able to recognize progress and stagnation of in- dividual project groups or project participants and provide assistance or offer problem-solving strategies. Com- petencies are taught in two areas. In the course of working as a teacher, participants will learn to teach others in topics related to the field of HCI. They will gain a better understanding of the problems students encounter in learning. While working as a research assistant, participants will gain hands-on experience with the methods of scientific work						
Courses (type, number of weekly contact hours, language — if other than German)						
P (o)						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
report (approx. 2 pages)						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to III LPOT (examination regulations for teaching-degree programmes)						
 Module appears in						
Master's degree (1 major) Human-Computer-Interaction (2015)						
Master's degree (1 major) Human-Computer-Interaction (2018)						
Master's degree (1 major) Human-Computer-Interaction (2021)						

Module title					Abbreviation	
Foundations of HCI 1					06-HCI-GL-1-182-m01	
Module coordinator				Module offered by		
chairperson of examination committee of the Maste gree programme Human-Computer Interaction			of the Master's de- raction	Institute of Human Computer Media		
ECTS	CTS Method of grading Only after succ. compl. of module(s)					
5	(not) s	successfully completed				
Duration Module level			Other prerequisites			
1 semester graduate						
Content	ts					
The module is a shell module for individual target modules. Students acquire basic qualifications and competen- cies they need for the study of Human-Computer Interaction. Contents and corresponding target modules from topics of computer science, psychology, mathematics, statistics or user experience correspond to the individual competence needs of the students.						
Intende	d learı	ning outcomes				
After participation in this module, students possess professional, methodological, social and/or personal com- petencies on fundamental topics from the field of human-computer interaction. Concrete qualification goals/ competencies correspond to the target module to be credited. Students are able to participate in more in-depth and advanced modules in the field of human-computer interaction.						
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)		
S (2)						
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes)						
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Human-Computer-Interaction (2018) Module studies (Master) Human-Computer-Interaction (2019) Master's degree (1 major) Human-Computer-Interaction (2021)						

Module title					Abbreviation	
Foundations of HCI 2					06-HCI-GL-2-182-m01	
Module coordinator				Module offered by		
chairperson of examination committee of the Master's gree programme Human-Computer Interaction			of the Master's de- raction	Institute of Computer Science		
ECTS	CTS Method of grading Only after succ. compl. of module(s)					
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semester graduate		graduate				
Content	ts					
The module is a shell module for individual target modules. Students acquire basic qualifications and competen- cies they need for the study of Human-Computer Interaction. Contents and corresponding target modules from topics of computer science, psychology, mathematics, statistics or user experience correspond to the individual competence needs of the students.						
Intende	d learı	ning outcomes				
After participation in this module, students possess professional, methodological, social and/or personal com- petencies on fundamental topics from the field of human-computer interaction. Concrete qualification goals/ competencies correspond to the target module to be credited. Students are able to participate in more in-depth and advanced modules in the field of human-computer interaction.						
Courses	5 (type, n	umber of weekly contact hours, la	anguage — if other than Ger	man)		
S (2)						
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with handout (approx. 2 pages) or c) presentation of project results (approx. 20 minutes) or d) term paper (approx. 10 pages) or e) a total of approx. 5 hours of completing exercises or f) oral examination (approx. 25 minutes)						
Allocation of places						
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Human-Computer-Interaction (2018) Module studies (Master) Human-Computer-Interaction (2019) Master's degree (1 major) Human-Computer-Interaction (2021)						





Thesis (30 ECTS credits)

Module title					Abbreviation	
HCI Master's Thesis					o6-HCI-Abschl-152-mo1	
Module coordinator				Module offered by		
chairperson of examination committee of the Master's de- gree programme Human-Computer Interaction				Institute of Human Computer Media		
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
30	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
Studen search	ts work area of	c independently and usin human-computer interac	g subject-specific sci ction (HCI) and docur	entific methods on a nented their results	an assigned problem from the re- according to scientific standards.	
Intende	ed lear	ning outcomes				
interaction in a structured and independent manner to a clearly defined problem. They are able to analyze the problem and work on it in a planned and structured process. They are able to summarize, compare and evaluate the relevant state of research. They generate their own questions and plan and implement approaches to answer these questions. They are able to review their findings and evaluate them in comparison of alternative methods. They deepen their self-management skills						
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
No cou	rses as	signed to module				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
written Langua	thesis ige of a	(approx. 50 to 90 pages) ssessment: German and,	/or English			
Allocat	ion of p	olaces				
Additional information						
Time to complete: 6 months.						
Workload						
900 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Human-Computer-Interaction (2015)						
Master	Master's degree (1 major) Human-Computer-Interaction (2018) Master's degree (1 major) Human-Computer-Interaction (2021)					
master's degree (1 major) Human-Computer-Interaction (2021)						