

Subdivided Module Catalogue for the Subject

Human-Computer-Interaction

as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Examination regulations version: 2024 Responsible: Faculty of Human Sciences Responsible: Institute of Human Computer Media Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Computer Science



Course of Studies - Contents and Objectives

The bachelor's degree in Human-Computer-Interaction is offered by the Faculty of Human Sciences (Institute of Human Computer Media) together with the Faculty of Mathematics and Computer Science (Institute of Computer Science) at JMU as a basic-oriented cooperative course leading to the degree "Bachelor of Science" (B.Sc., 180 ECTS credits) as part of a consecutive Bachelor's and Master's study program. The degree of Bachelor of Science represents a first professional qualification.

The aim of the Human-Computer Interaction course is to impart skills for the systematic analysis, development, testing and optimization of interfaces between computer systems and their human users. The course is interdisciplinary and combines concepts, methods, theories and techniques, particularly from psychology and computer science, with subject-specific skills in human-computer interaction. A particular focus is on the development and testing of interactive and multimedia human-computer

interfaces and their optimization with regard to usability and user experience.

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)):

16-May-2024 (2024-63)

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.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (138	ECTS credits)			
o6-HCI-B-GLHCI-242-mo1	Foundations of Human-Computer-Interaction	5	NUM	13
o6-HCI-B-GLPE-242-mo1	Foundations of Psychological Ergonomics	5	NUM	14
10-HCI-B-EinP-242-m01	Introduction to Programming (HCI)	5	NUM	35
o6-HCI-B-STAT-1-242-mon	Statistics 1	5	NUM	24
10-HCI-B-GADS-242-m01	Foundations Algorithms and Data Structures (HCI)	10	NUM	37
o6-HCI-B-STAT-2-242-	Statistics 2	5	NUM	25
m01		ر		2)
10-HCI-B-ST-242-m01	Software Technology (HCI)	5	NUM	50
10-HCI-B-EPP-242-m01	Introductory Programming Course (HCI)	5	B/NB	36
06-HCI-B-SGP-242-m01	Selected Areas of Psychology	5	NUM	23
10-HCI-B-SPSE-242-m01	Development of Graphical User Interfaces	10	NUM	48
10-HCI-B-SQ-242-m01	Software Quality	5	NUM	49
06-HCI-B-Usab-242-m01	Usability and User Experience Evaluation	10	NUM	27
06-HCI-B-FM-242-m01	Research Methods	5	NUM	12
o6-HCI-B-VPS-242-mo1	Experience as a tester or subject in experiments	1	B/NB	31
10-HCI-B-ICGV-242-m01	Interactive Computer Graphics	5	NUM	40
10-HCI-B-ICGT-242-m01	Interactive Systems Hands-On	5	NUM	39
o6-HCI-B-MBG-242-mo1	Methods for Human-Centered Design	10	NUM	17
o6-HCI-B-IDA-242-mo1	Inclusive Design & Accessibility	5	NUM	16
10-HCI-B-Math-I-242-mo1	Introduction to Higher Mathematics I	5	NUM	44
o6-HCI-B-Prop-242-mo1	Propaedeutic Course Bachelor's Thesis	7	B/NB	22
10-HCI-B-ML-242-m01	Machine Learning	5	NUM	47
10-HCI-B-HAI-242-m01	Human-Al Interaction	5	NUM	38
o6-HCI-B-Proj-242-mo1	HCI Bachelor Project	10	NUM	21
Compulsory Electives (10 B	CTS credits)			
06-HCI-B-V1-242-m01	Specialization HCI Bachelor 1	5	NUM	28
06-HCI-B-V2-242-m01	Specialization HCI Bachelor 2	5	NUM	29
10-HCI-B-IS1-242-m01	Interactive Systems Bachelor 1	5	NUM	41
10-HCI-B-IS2-242-m01	Interactive Systems Bachelor 2	5	NUM	42
10-HCI-B-IS3-242-m01	Interactive Systems Bachelor 3	5	NUM	43
10-HCI-B-MI-242-m01	Media Informatics for HCI Bachelor	5	NUM	46
10-HCI-B-AK-242-m01	Selected topics of Computer Science Bachelor	5	NUM	34
10-HCI-B-Math-II-242-	Introduction to Higher Mathematics II	_	NILIAA	
m01	Introduction to Higher Mathematics II	5	NUM	45
06-HCI-B-OMK-242-m01	Psychology of Online and Mobile Communication for HCI Ba- chelor	5	NUM	19
o6-HCI-B-VUsab-242-mo	Specialisation Usability	5	NUM	32
o6-HCI-B-VUsEx-242-mo1	Specialisation User Experience	5	NUM	33
o6-HCI-B-VHuFa-242-mo1	Specialisation Human Factors	5	NUM	30
06-HCI-B-De- sign-242-m01	Interface & Interaction Design	5	NUM	10

o6-HCI-B-PIA-242-mo1	6-HCI-B-PIA-242-mo1 Persuasive Interaction							
04-DH-A1-152-m01	Digital Humanities in Overview	5	B/NB	6				
o6-HCI-B-Med-	Madia Developm for HCI Pacholor	_	NUM	18				
Psy-242-m01	Media Psychology for HCI Bachelor	5	NUM	10				
Key Skills Area (20 ECTS c	redits)		<u>.</u>					
General Key Skills (5 ECT	S credits)							
General Key Skills (subj	ect-specific)							
	In addition to the modules listed below, students may also take modules offered by JMU as part of the pool of general transferable skills (ASQ).							
06-HCI-B-ASQ-242-	Work experience as a research and teaching assistant	E	B/NB	8				
m01								
Subject-specific Key Skill	ls (15 ECTS credits)							
o6-HCI-B-Ex-	Exhibition & Entrepreneurship	5	B/NB	11				
hib-242-m01		5	טאי,ש	11				
06-HCI-B-AT-242-m01	HCI Bachelor Seminar Current Trends	5	NUM	9				
o6-HCI-B-IAPT-242-mo1 Interaction Prototyping 5 NUM				15				
Thesis (12 ECTS credits)	^ 			n				
o6-HCI-B-Thesis-242-mo1	Bachelor's Thesis Human-Computer Interaction	12	NUM	26				

Module	e title				Abbreviation		
Digital	Humar	nities in Overview	04-DH-A1-152-m01				
Module coordinator Module offered by							
			and Cormon Lite	· · · ·	nanities and German Literature c		
		Chair of Digital Humanitie Nodern Period	es and German Lite-	the Modern Period	nanities and German Literature o		
ECTS		od of grading	Only after succ. con	npl. of module(s)			
5	(not) s	successfully completed					
Duratio	on	Module level	Other prerequisites	i			
1 seme	ster	undergraduate					
Conten	ts						
		ne discipline of digital hu acoding, the digital librar			nalisation and data modelling as		
		ning outcomes	<u>, , , , , , , , , , , , , , , , , , , </u>				
	-		nciples of digital hum	anities and have gai	ned an overview of the discipli-		
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	n)		
V (2) +	• •						
Module	e taugh	t in: German and/or Engl	ish				
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme		
-		nation (approx. 60 minut		- /			
		ssessment: German and					
Allocat	-		<u>.</u>				
Additio	nal inf	ormation					
Worklo	ad						
150 h	au						
Teachi							
		e: every winter semester					
Referre	d to in	LPOI (examination regu	llations for teaching-o	degree programmes)			
Module	e appea	ars in					
Master	's degr	ee (1 major) Media Comn	nunication (2015)				
		gree (1 major, 1 minor) Pr					
		gree (1 major, 1 minor) Pr			2015)		
		gree (1 major, 1 minor) Di	-	-			
		gree (2 majors) Pre- and		ology (2015)			
		gree (2 majors) Digital Hu	-				
	-	ee (1 major) General and		2016)			
	-	ee (1 major) Media Comn					
		gree (1 major, 1 minor) Di	-	16)			
	-	ee (1 major) Media Comn					
васпеі		gree (2 majors) Classical					
Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)							
	Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018) Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)						
Bachel	or's de		-				
Bachel Bachel	or's de or's de	gree (1 major, 1 minor) Di gree (1 major, 1 minor) Di jor Human-Computer-Interacti-	gital Humanities (Mir		. reg. data re- page 6 / 50		

UNIVERSITÄT WÜRZBURG

Subdivided Module Catalogue for the Subject Human-Computer-Interaction Bachelor's with 1 major, 180 ECTS credits

Bachelor's degree (2 majors) Digital Humanities (2018) Master's degree (1 major) Media Communication (2019) Bachelor's degree (1 major, 1 minor) European Ethnology (Minor, 2020) Bachelor's degree (2 majors) European Ethnology (2020) Bachelor's degree (1 major, 1 minor) Auxiliary Sciences of History (Minor, 2021) Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022) Master's degree (1 major) Media Entertainment (2022) Master's degree (1 major) Psychology of digital media (2022) Master's degree (1 major) General and Applied Linguistics (2022) Bachelor's degree (1 major) Franco-German studies: language, culture, digital competence (2022) Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023) Bachelor's degree (1 major, 1 minor) European Ethnology/Empiric Cultural Studies (Minor, 2023) Bachelor's degree (1 major) Indology/South Asian Studies (2024) Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2024) Bachelor's degree (2 majors) Digital Humanities (2024) Bachelor's degree (1 major, 1 minor) Digital Humanities (2024) Bachelor's degree (1 major, 1 minor) Digital Humanities (Minor, 2024) Bachelor's degree (1 major) Human-Computer-Interaction (2024) Bachelor's degree (1 major) Classics (2024) Bachelor's degree (1 major, 1 minor) European Ethnology/Empiric Cultural Studies (2025)

Module title					Abbreviation			
Work experience as a research and teaching assistant					o6-HCI-B-ASQ-242-mo1			
Modul	le coorc	linator		Module offered by	<u> </u>			
chairp	erson c	f examination committee	of the Bachelor's	Institute of Human	Computer Media			
degree	e progra	mme Human-Computer I	nteraction					
ECTS	1	od of grading	Only after succ. con	npl. of module(s)				
5		successfully completed						
Durati		Module level	Other prerequisites					
1 seme		undergraduate						
Conte	nts							
sch-Co	ompute				Interaction (HCI, German: Men- ude typical activities from the			
Intend	led lear	ning outcomes						
in topi learnir scienti	ics relat ng. Whi ific wor	ed to the field of HCI. The le working as a research a k.	ey will gain a better u assistant, participant	nderstanding of the j s will gain hands-on	pants will learn to teach others problems students encounter in experience with the methods of			
P (o)	es (type	, number of weekly conta	act hours, language –	- if other than Germa	in)			
Metho		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-			
report	(appro	x. 2 pages)						
Alloca	tion of	places						
Additi	onal inf	ormation						
Workle	oad	Workload						
150 h								
Teaching cycle								
Teachi	ing cyc	e						
	_	l e e: every semester						
Teachi	ing cycl		lations for teaching-o	degree programmes)				
Teachi	ing cycl	e: every semester	llations for teaching-o	degree programmes)				
Teachi Referr e	ing cycl	e: every semester LPO I (examination regu	lations for teaching-o	degree programmes)				

Module t				Abbreviation
HCI Bach	elor Seminar Current Tre	nds		06-HCI-B-AT-242-m01
Module c	oordinator		Module offered by	·
	son of examination comm		Institute of Human	Computer Media
	rogramme Human-Compu		 mml_of_modulo(c)	
	Aethod of grading numerical grade	Only after succ. con	npl. of module(s)	
Duration	_	Other prerequisites	•	
1 semest	<u> </u>			
Contents				
stems top the prese cific rese	pics. Content includes the entation of scientific cont arch question. Analysis in	e use of scientific media (ent. Students search for a nvolves identifying releva	conference proceedi and analyze scientific nt content, synthesiz	ocus on human-computer sy- ings, journals, books, etc.) and publications in relation to a spe zing it into coherent arguments, ints with an oral presentation.
Intended	learning outcomes			
fic texts a and evalu	and identify and interpret uate them with other resu		. They will be able to Il results to a specia	
S (2)	aught in: German and/or			
		be, language — if other th ule can be chosen to earn		tion offered — if not every seme
Language	tion (approx. 20 minutes) e of assessment: German e for bonus	with handout (approx. 5 and/or English	pages)	
Allocatio	n of places			
	-			
Additiona	al information			
Workload	1			
150 h				
	cycle			
150 h Teaching Teaching	c ycle cycle: every semester			
Teaching Teaching	cycle: every semester	regulations for teaching-	degree programmes)	
Teaching Teaching	cycle: every semester	regulations for teaching-	degree programmes)	
Teaching Teaching Referred	cycle: every semester	regulations for teaching-	degree programmes)	

Module	e title				Abbreviation	
		teraction Design			06-HCI-B-Design-242-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Psychological Erg	onomics	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites	i		
1 seme	ster	undergraduate				
Conten	ts					
sibility & grids dents l learnec	and us , applic earn th 1.	ability. The module provi ed design theory, visual la e practical use of a desig	des an overview of d anguage & figurative	esign topics such as signs as well as corp	ia, but also for their comprehen- color, fonts & typography, layout porate design. In addition, stu- ut and practice what has been	
Intende	ed lear	ning outcomes				
		ting in the module course justify their own design			apply basic rules of visual de- gns.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
S (2)						
		t in: German and/or Engli				
					tion offered — if not every seme-	
ster, information on whether module can be chosen to earn a bonus) Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Hu- man-Computer Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of _l	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cvcl	e				
		e: not regularly				
		LPOI (examination regu	lations for teaching.	degree programmes)		
		<u></u>		2-3-00 programmes)		
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Human-Coi	mputer-Interaction (2	2024)		
	-					

Module	e title	·			Abbreviation
Exhibition & Entrepreneurship					o6-HCI-B-Exhib-242-mo1
Module	e coord	inator		Module offered by	
chairpe	erson o	f examination committee	of the Bachelor's	Institute of Human	Computer Media
degree	progra	mme Human-Computer l	nteraction		
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
		undergraduate			
Conten	ts				
science	es. This		uman-Computer Inter	action (HCl). This co	nd practical aspects of various urse requires the participants to ion-like setup.
Intende	ed lear	ning outcomes			
					ow to plan, design and set-up the stions from the audience.
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
S (1) Module	e taugh	t in: German and/or Engl	ish		
		sessment (type, scope, la on on whether module ca			ition offered — if not every seme-
		of results of HCI Bachelor ssessment: German and		minutes)	
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
		e: every semester	<u>.</u>		
		LPOI (examination regu	lations for teaching-	degree programmes)	
				,	
Module	e appea	irs in			
		gree (1 major) Human-Co	mputer-Interaction (2	2024)	

Module					Abbreviation		
Resear	ch Met	hods			06-HCI-B-FM-242-m01		
Module	coord	inator		Module offered by			
holder	of the C	hair of Psychological Erg	onomics	Institute of Human	Computer Media		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
5	r	rical grade					
Duratio		Module level	Other prerequisites				
1 seme		undergraduate					
Conten							
se inclu measur interpre	ide scie rement etation	entific theoretical basics, methods, selection of re	identification of que search paradigms an e exercise, the above	stions, formulation of d data collection me points are practiced	numan-computer systems. The- of hypotheses, securing suitable thods, as well as evaluation and I practically by means of tasks report.		
		ning outcomes					
puter sy thods, f The stu	After participating in the module courses, students are able to investigate empirical questions in human-com- puter systems using the appropriate scientific methods. The students are able to reproduce basic terms and me- thods, formulate and comprehend questions, and decide on and apply suitable survey and evaluation methods. The students are able to critically examine the methods of others and their own work and have knowledge of the structure and writing of scientific reports.						
Course	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)		
V (2) + I Module		t in: German and/or Engli	ish				
Method	l of ass	essment (type, scope, la	nguage — if other tha		tion offered — if not every seme-		
		on on whether module ca		a Donus)			
	ge of a	nation (approx. 90 minuto ssessment: German and/ bonus					
Allocat	ion of p	olaces					
	•						
Additio	nal info	ormation					
Worklo	ad						
150 h	150 h						
Teachir	ng cycl	e					
Teachir	ng cycle	e: only in winter semester					
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)			
Module	appea	rs in					
Bachelo	or's deg	gree (1 major) Human-Coi	mputer-Interaction (2	024)			

Module title Abbreviation					Abbreviation				
Foundations of Human-Computer-Interaction					06-HCI-B-GLHCI-242-m01				
Module coordinator Module offered by									
		Chair of Computer Scienc	e IX	Institute of Human	Computer Media				
ECTS	1	od of grading	Only after succ. con						
5	-	rical grade		1					
Duratio	on	Module level	Other prerequisites						
1 seme	ester	undergraduate							
Conter	nts								
Intend	ed lear	ning outcomes							
			-						
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	in)				
V (3) +		,							
		t in: German and/or Engl	ish						
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 120 minutes) or b) presentation (30 to 60 minutes) or c) oral examination of one candidate each (30 to 60 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus Allocation of places Additional information									
Worklo	ad		·						
150 h									
Teachi	ng cycl	е							
Teachi	ng cycle	e: only in winter semeste	r						
Referre	ed to in	LPOI (examination regu	llations for teaching-o	legree programmes)					
			Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in									
Modul	e appea	ars in							

Module title					Abbreviation
Foundations of Psychological Ergonomics					06-HCI-B-GLPE-242-m01
Module	e coord	inator		Module offered by	· · · · · · · · · · · · · · · · · · ·
holder	of the (Chair of Psychological Erg	gonomics	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	undergraduate			
Conten	ts				
(percep on, dec physica demon on, ger	otion ar cision-n al ergor stration neral de	nd visual and auditory inf naking), cognitive ergonc nomics (anthropometry, b ns and small experiments	formation processing omics (design of disp piomechanics). The b s and using practical n-machine interactio	, cognitive informati lays and controls, au asics are illustrated examples from hum	nans from general psychology on processing, memory, attenti- utomation, mental workload) and and deepened by carrying out an-machine interaction. In additi ne findings of general psychology
		ning outcomes	5.		
produc knowle	e speci dge in	ific findings from general	psychology and cogr ne interaction and re	nitive and physical e view and evaluate e	ist skills. They will be able to re- rgonomics. They can apply this xisting technical systems.
V (2) +	Ü (1)	t in: German and/or Engl			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
	ige of a	nation (approx. 90 minut ssessment: German and, bonus			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi					
		e: only in winter semeste			
Referre	ed to in	LPO I (examination regu	llations for teaching-o	degree programmes)	
 Module	e appea	ars in			

Module	title				Abbreviation
Interaction Prototyping 06-HCI-B-IAPT-242-mo1					o6-HCI-B-IAPT-242-mo1
Module	coord	inator		Module offered by	
holder	of the (Chair of Psychological Erg	gonomics	Institute of Human	Computer Media
ECTS	Metho	od of grading	Only after succ. con		
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
nerate a ment pi as part	and ske rototyp of a se	etch many ideas and sele	ect appropriate desig	n solutions from the	es. Students learn to quickly ge- m. Students will be able to imple- ngible and embodied interaction
		e module courses, stude g guidelines of design an			eractive prototypes in various for- oment steps.
Course	s (type,	, number of weekly conta	ict hours, language –	- if other than Germa	an)
S (2) Module	e taugh	t in: German and/or Engl	ish		
		s essment (type, scope, la on on whether module ca			ation offered — if not every seme-
b) preso c) term	entatio paper ge of a	n (approx. 20 minutes) w n of project results (appr (approx. 10 pages) ssessment: German and, bonus	ox. 30 minutes) or	5 pages) or	
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
		e: only in summer semes	ter		
Referre	d to in	LPO I (examination regu	lations for teaching-o	degree programmes)	
Module	e appea	irs in			
Bachel	or's de	gree (1 major) Human-Co	mputer-Interaction (2	2024)	

Module title			Abbreviation	
Inclusive Design & Accessibility 06-HCI-B-IDA-242-m				
Module coordinator		Module offered by		
holder of the Chair of Psychological Erg	gonomics	Institute of Human	Computer Media	
ECTS Method of grading	Only after succ. com	pl. of module(s)		
5 numerical grade				
Duration Module level	Other prerequisites			
1 semester undergraduate				
Contents				
In this module, fundamentals of acces tive are covered and practiced. Central pairments, elderly people, people with creasing accessibility, principles of un taught interactively and applied in a sr	topics are design for dementia), methods iversal design and ap	important target gro for estimating exclu proaches of inclusiv	oups (e.g. people with visual im- sion, basic technologies for in-	
Intended learning outcomes		-,		
After participating in the module event limitations. The students are able to in specialist literature. In the project they ve competencies and their own values	dependently compile generate user-orient	, summarize and eva ed design solutions.	aluate relevant excerpts from the They develop their communicati-	
Courses (type, number of weekly conta	ict hours, language —	if other than Germa	n)	
S (2) Module taught in: German and/or Engl	ish			
Method of assessment (type, scope, la ster, information on whether module c			tion offered — if not every seme-	
a) presentation (approx. 20 minutes) w b) term paper (approx. 10 pages) Language of assessment: German and creditable for bonus		5 pages) or		
Allocation of places				
Additional information				
Workload				
150 h				
Teaching cycle				
Teaching cycle: only in winter semeste	r			
Referred to in LPO I (examination regu	lations for teaching-c	legree programmes)		
Module appears in				
Bachelor's degree (1 major) Human-Co	mputer-Interaction (2	024)		

Module title					Abbreviation
Methods for Human-Centered Design					06-HCI-B-MBG-242-m01
Module	coord	inator		Module offered by	
holder		hair of Psychological Erg	onomics	Institute of Human	Computer Media
ECTS		od of grading	Only after succ. com	pl. of module(s)	
10		rical grade			
Duratio		Module level	Other prerequisites		
1 semes		undergraduate			
This mo product dents o first pha	odule is ts. The n exam ases of	methods are introduced ples in the exercise part	in the lecture part of of the course. In a te process from context	the course. Selected am, they develop a p	n of user interfaces of interactive I methods are tested by the stu- product concept and carry out the ents analysis to the design of de-
		ning outcomes			
quiremo method sign of groups	ents an Is and a an inte as well	alysis as well as for the o assess the usefulness of ractive system. Project w as the ability to resolve	design of human-tech individual methods f ork promotes indepe conflicts.	nology interaction. or specific goals and ndent planning, com	ethods for context of use and re- They will be able to contrast the d apply the methods to the de- munication and cooperation in
· · · · · ·		number of weekly conta	ct nours, language —	if other than Germa	n)
V (2) + Í Module		t in: German and/or Engli	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) oral (examin ge of a	ort (approx. 12 pages) or ation of one candidate e ssessment: German and/ bonus		tes)	
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
300 h					
Teaching cycle					
Teachir	Teaching cycle: only in summer semester				
Referre	d to in	LPOI (examination regu	lations for teaching-d	legree programmes)	
Module	appea	rs in			
Bachelo	or's deg	gree (1 major) Human-Coi	mputer-Interaction (2	024)	

Module title					Abbreviation	
Media Psychology for HCI Bachelor					o6-HCI-B-MedPsy-242-mo1	
Module coordinator				Module offered by		
holder	of the (Chair of Media Psycholog	v	Institute of Human	Computer Media	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	ż	
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
Media psychology deals with human experiences and behaviour while interacting with media. Media psycholo- gy develops theories and tests these in empirical studies. This introductory module aims to equip students with fundamental knowledge about the subject of media psychology (e. g. traditional media and mass media) as well as its theories, findings, and methods. The module focuses on the introduction to a) the subject itself, theories, and findings of media psychology b) research fields and current problems in media psychology c) methods in media psychology.						
		ning outcomes				
knowle logical	dge of perspe	the subject-specific ques	tions and should une ance of questions in t	derstand the relevan the field of the socia	ology. They should have a basic ice and importance of a psycho- l sciences. Thus, a basis is provi- oriented) media skills.	
Course	s (type,	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
V (2) Module	e taugh	t in: German and/or Engl	ish			
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-	
b) oral c) oral	examin examin Ige of a	nination (approx. 50 min ation of one candidate e ation in groups of up to 2 ssessment: German and, bonus	ach (approx. 20 minu F candidates (approx.	-	didate)	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	Workload					
150 h						
Teaching cycle						
Teachi	ng cycle	e: depending on the offer				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
Module	Module appears in					
Bachel	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module	e title				Abbreviation
Psychology of Online and Mobile Communication for HCI B				achelor	06-HCI-B-OMK-242-m01
Module	e coord	inator		Module offered by	1
holder New Me		Chair of Psychology of Co	ommunication 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	6	
1 seme	ster	undergraduate			
Conten	ts				
le medi	ia use.				Il perspective on online and mobi the context of online and mobile
Intende	ed learı	ning outcomes			
le medi	ia use.				Il perspective on online and mobi the context of online and mobile
Course	s (type	, number of weekly cont	act hours, language –	- if other than Germa	an)
V (2) Modula	taugh	t in: German and/or Eng	lich		
		-		an Corman ovamina	ation offered — if not every seme-
		on on whether module of			ation offered — If not every serile-
b) oral	examin ige of a	mination (approx. 50 mi ation of one candidate ssessment: German and bonus	each (approx. 20 mini	utes)	
Allocat	ion of p	olaces			
	the nu	subject semesters. Am			es will be allocated according to subject semesters, places will be
Additio	nal inf	ormation	_		
			_		
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachir	ng cycle	e: depending on the offe	r		
Referre	ed to in	LPOI (examination reg	ulations for teaching-	degree programmes))
Module	e appea	we in			
Module	appea				

Module title				Abbreviation		
Persuasive Interaction					06-HCI-B-PIA-242-m01	
Module	e coord	inator		Module offered by		
holder	of the C	Chair of Psychological Erg	onomics	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		undergraduate				
Conten	ts					
Intende	ed learr	ning outcomes				
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (2) Module	e taugh	t in: German and/or Engl	ish			
					tion offered — if not every seme-	
ster, in	formati	on on whether module ca	an be chosen to earn	a bonus)		
man-Co a) writt b) pres c) prese	ompute en exar entatio entatio	r Systems: nination (approx. 90 min n (approx. 20 minutes) a n of project results (appro n (approx. 45 minutes) o	utes) or nd handout (approx. ox. 30 minutes) or		ssment in the specialisations Hu-	
f) term	paper (ation of one candidate e approx. 10 pages)		tes) or		
Langua credita		ssessment: German and, bonus	or English			
Allocat						
Additio	nal info	ormation				
Worklo	ad					
150 h	150 h					
	Teaching cycle					
Teachir	ng cycle	e: every semester				
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
Module						
Bachelor's degree (1 major) Human-Computer-Interaction (2024)						

Module title Abbreviation					Abbreviation
HCI Bachelor Project					o6-HCI-B-Proj-242-mo1
Module	e coord	inator		Module offered by	<u> </u>
		f examination committee		Institute of Human	Computer Media
degree	<u> </u>	mme Human-Computer I	nteraction		
ECTS		od of grading	Only after succ. cor	npl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites	i	
1 seme	ster	undergraduate			
Conten	ts				
Intende	ed lear	ning outcomes			
			,		
Course	s (type	, number of weekly conta	ct hours, language –	– if other than Germa	n)
Ü (2)		, number of weekly conta	et nours, language		
• •	e taugh	t in: German and/or Engl	ish		
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
	ige of a	x. 10 pages) ssessment: German and, bonus	/or English		
Allocat					
Additio	nal inf	ormation			
Worklo	ad				
300 h					
Teachi	ng cycl	e			
Teaching cycle: every semester					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module title Abbreviation				Abbreviation		
Propae	deutic	Course Bachelor's Thesis	5		06-HCI-B-Prop-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Human	Computer Media	
ECTS	<u> </u>	od of grading	Only after succ. com	npl. of module(s)		
7	(not) s	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		undergraduate				
Conten	ts					
Intende	ed learı	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)	
S (4)						
		t in: German and/or Engl				
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
		oprox. 10 pages) ssessment: German and,	/or English			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
210 h						
Teachir	ng cycl	e				
Teachir	Teaching cycle: every semester					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Bachel	or's de	gree (1 major) Human-Co	mputer-Interaction (2	.024)		

Module title Abbreviation					Abbreviation
Selected Areas of Psychology 06-HCI-B-SGP-242-mo1					
Module	e coord	inator		Module offered by	<u> </u>
holder	of the (Chair of Psychological E	rgonomics	Institute of Human	Computer Media
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	undergraduate			
Conten	ts				
sub-as and Org	pects: l ganizat	Emotional and Motivati	onal Psychology, Socia e exercise, examples a	al Psychology, Persor	amentals of psychology in the nality and Differential Psychology, knowledge can be applied or re-
Intende	ed lear	ning outcomes			
psycho evaluat to pres	logy ar te the r ent and	nd to delineate the indivelevance of the sub-asp l discuss the contents.	vidual sub-aspects. Fu pects in the human-cor	rthermore, the stude nputer interaction. T	e basics of the sub-aspects of nts are able to recognize and he exercise enables the students
		, number of weekly con	tact hours, language –	- if other than Germa	n)
V (2) + Module	• •	t in: German and/or En	glish		
		essment (type, scope, on on whether module			tion offered — if not every seme-
	ge of a	nation (approx. 90 minu ssessment: German an bonus			
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Teaching cycle: only in summer semester					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
 Module appears in					
Module	e appea	irs in			

Module title					Abbreviation	
Statistics 1					o6-HCI-B-STAT-1-242-mo1	
Module	e coord	inator		Module offered by		
holder thods	of the F	Professorship of Psycholo	ogical Research Me-	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
interval data se cal data	ls, theo ts, test a analy	ory of Null hypothesis tests is of equivalence, conting	ting, parametric and gency table analysis, utational procedures	nonparametric meth analysis of variance)	timation principles, confidence ods for univariate and bivariate). After the principles of statisti- ed data analysis are trained with	
Intende	ed learr	ning outcomes				
lect ade correctl	equate ly, disp	statistical methods for te lay the results reasonabl	esting empirical ques y and interpret them	tions e.g. from evalu correctly.	tions as well as the ability to se- ation research, perform these	
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
S (4) + Module		t in: German and/or Engl	ish			
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
	ge of a	nation (approx. 120 minu ssessment: German and, bonus				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h	150 h					
Teaching cycle						
Teachir	Teaching cycle: every semester					
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
	······································					
Module	appea	irs in				
Bachelo	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module title					Abbreviation	
Statistics 2					o6-HCI-B-STAT-2-242-mo1	
Module	coord	inator		Module offered by		
holder thods	of the F	Professorship of Psycholo	ogical Research Me-	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
interval data se cal data	ls, theo ts, test a analy	ory of Null hypothesis test is of equivalence, conting	ting, parametric and gency table analysis, utational procedures	nonparametric meth analysis of variance)	timation principles, confidence ods for univariate and bivariate). After the principles of statisti- ed data analysis are trained with	
Intende	ed learn	ning outcomes				
lect ade	equate		esting empirical ques	tions e.g. from evalu	tions as well as the ability to se- lation research, perform these	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (4) + Module		t in: German and/or Engl	ish			
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
	ge of a	nation (approx. 120 minu ssessment: German and, bonus				
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h	150 h					
Teaching cycle						
Teachir	Teaching cycle: every semester					
Referre	d to in	LPO I (examination regu	lations for teaching-o	legree programmes)		
Module	appea	ars in				
Bachelo	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module title					Abbreviation	
Bachel	or's Th	esis Human-Computer In	teraction		o6-HCI-B-Thesis-242-mo1	
Module	e coord	inator		Module offered by	<u> </u>	
chairpe	erson o	f examination committee	of the Bachelor's	Institute of Human	Computer Media	
degree	progra	mme Human-Computer l	nteraction			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
12	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
		independently on an as ument their results accor			f human-computer interaction	
Intend	ed lear	ning outcomes				
the pro to ansv	blem. ⁻ ver the	They compare, interpret a	ind evaluate analogo plement a structured	us problems and rer	et subject-specific questions of nember the necessary methods tion process. They document and	
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)	
No cou	rses as	signed to module				
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
		esis (approx. 30 pages) ssessment: German or El	nglish			
Allocat	ion of p	olaces				
		· · · · · · · · · · · · · · · · · · ·				
Additio	onal inf	ormation				
Time to	o comp	ete: 12 weeks.	-			
Worklo						
360 h						
Teaching cycle						
Teaching cycle: every semester						
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes)		
Module	Module appears in					
Bachel	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module title					Abbreviation	
Usability and User Experience Evaluation					06-HCI-B-Usab-242-m01	
Module	e coord	inator		Module offered by		
holder	of the C	Chair of Psychological Erន្	gonomics	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
experie thods a luate tw ting and Intende	ence of are test vo inter d prese ed learr	interactive products. The ed by the students on ex ractive products indepen enting the results of a usa ning outcomes	e methods are introdu amples in the exercis dently in small group ability study and inclu	iced in the lecture pa e part of the course. s. The task consists ides a critical compa	methods for usability and user art of the course. Selected me- Furthermore, the students eva- of planning, conducting, evalua- arison of methods.	
evaluat conduc sion of	ting inte t and e interac	eractive products, preser evaluate evaluation studi tive products. Through p	nt them in writing and es. From the analysis roject work in small g	critically evaluate the results, they of the results, they groups, their general	hem. They will be able to plan, develop suggestions for the revi- problem-solving ability, commu- wn willingness to perform.	
Course	s (type	, number of weekly conta	ict hours, language —	if other than Germa	n)	
V (2) + Module		t in: German and/or Engl	ish			
		sessment (type, scope, la on on whether module c			tion offered — if not every seme-	
b) oral	examin ige of a	ort (approx. 12 pages) or nation of one candidate e ssessment: German and bonus		ites)		
Allocat	ion of p	olaces				
of Arts	with 12		/ill be allocated prima	arily according to the	bject Digital Humanities (Master e number of subject semesters; located by lot.	
Additio	nal inf	ormation				
Worklo	ad					
300 h						
1000		Teaching cycle				
-	ng cycl	e				
Teachi		e e: only in winter semeste	r			
Teachir Teachir	ng cycle			legree programmes)		
Teachir Teachir	ng cycle	e: only in winter semeste		legree programmes)		
Teachir Teachir	ng cycle ed to in	e: only in winter semeste LPOI (examination regu		legree programmes)		

Module title					Abbreviation
Specialization HCI Bachelor 1					06-HCI-B-V1-242-m01
Module coordinator				Module offered by	<u> </u>
		f examination committee	of the Bachelor's	Institute of Human	Computer Media
		mme Human-Computer I			F
ECTS	1	od of grading	Only after succ. cor	npl. of module(s)	
5		rical grade			
Duratio		Module level	Other prerequisites	i	
1 seme		undergraduate			
In this de, whi teractic phy, et	module ich exp on desi c.	and and deepen the skill gn, sociology of technolo	s already acquired, e	e.g. media communio	s to neighboring sciences are ma- cation, business informatics, in- ology, digital humanities, geogra-
Intende	ed lear	ning outcomes			
their ov	vn subj commu	ject as well as in related	fields of science and	application. They de	vical problems and methods in evelop methodological compe- th conflicts in interdisciplinary
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)
S (2) Module	e taugh	t in: German and/or Engl	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
man-Co a) writt b) pres c) pres d) pres e) oral f) term	ompute en exai entatio entatio entatio examin paper (ige of a	r Systems: mination (approx. 90 mir n (approx. 20 minutes) a n of project results (appr n (approx. 45 minutes) o lation of one candidate e (approx. 10 pages) ssessment: German and	nutes) or nd handout (approx. ox. 30 minutes) or r ach (approx. 30 minu	5 pages) or	ssment in the specialisations Hu-
Allocat					
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachir	ng cycle	e: every semester			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
 Module appears in					
Bachel	Bachelor's degree (1 major) Human-Computer-Interaction (2024)				

Module title					Abbreviation
Specialization HCI Bachelor 2					06-HCI-B-V2-242-m01
Module coordinator				Module offered by	
		f examination committee	of the Bachelor's	Institute of Human	Computer Media
degree	progra	mme Human-Computer I	nteraction		
ECTS		od of grading	Only after succ. cor	npl. of module(s)	
5		rical grade			
Duration		Module level undergraduate	Other prerequisites	5	
Conten		undergraduate	<u> </u>		
de, whi teractic phy, et	ich exp on desi c.	and and deepen the skill gn, sociology of technolo	s already acquired,	e.g. media communio	s to neighboring sciences are ma- cation, business informatics, in- ology, digital humanities, geogra-
	-	ning outcomes			
their ov	vn sub commu	ject as well as in related	fields of science and	application. They de	bical problems and methods in evelop methodological compe- th conflicts in interdisciplinary
Course	s (type	, number of weekly conta	ict hours, language -	– if other than Germa	an)
V/S (2) Module	-	(1) t in: German and/or Engl	ish		
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-
man-Co a) writt b) pres c) pres d) pres e) oral f) term	ompute en exal entatio entatio entatio examin paper l ige of a	er Systems: mination (approx. 90 mir on (approx. 20 minutes) a n of project results (appr on (approx. 45 minutes) o nation of one candidate e (approx. 10 pages) ssessment: German and	nutes) or nd handout (approx ox. 30 minutes) or r ach (approx. 30 min	. 5 pages) or	ssment in the specialisations Hu-
Allocat	ion of _l	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cvcl	e	· · · · · · · · · · · · · · · · · · ·		
		e: every semester			
		LPOI (examination regu	lations for teaching-	degree programmes)
				0	
Module	e appea	ars in			
		gree (1 major) Human-Co	mputer-Interaction (2024)	

Module title					Abbreviation			
Specia	Specialisation Human Factors 06-HCI-B-VHuFa-242-mo1							
Module coordinator				Module offered by				
holder of the Chair of Psychological Ergonomics			rgonomics	Institute of Human Computer Media				
ECTS				npl. of module(s)	·			
5	nume	rical grade						
Duratio		Module level	Other prerequisites	i				
1 seme		undergraduate						
Conten								
	In this module, students are introduced to safety-critical and complex work areas in which human factors play a major role (e.g. aviation, acute medicine, traffic). For this purpose, (1) a work area with its specific requirements							
		of the human-compute						
		ssed and (3) possibiliti						
ving pr	oblems	in this domain. Excurs	ions to safety-critical v	vork places are also	planned as part of th	ne seminar.		
Intend	ed learı	ning outcomes						
		ting in this module, stu						
		ext through insight and able to analyze these in						
		eatures, and to incorpo						
		ls in which internships	or project and thesis v	vork are relevant and	l also represent a po	tential pro-		
	nal field				````			
	s (type)	, number of weekly con	tact hours, language –	– if other than Germa	in)			
S (2) Module	e taugh	t in: German and/or En	glish					
		essment (type, scope,	h.	an German, examina	ition offered — if not	every seme-		
		on on whether module				,		
		ise specified, the follow	wing methods can be o	chosen from for asse	ssment in the specia	alisations Hu-		
		r Systems: nination (approx. 90 m	inutos) or					
		n (approx. 20 minutes)		5 pages) or				
c) pres	entatio	n of project results (app	prox. 30 minutes) or					
		n (approx. 45 minutes)						
		ation of one candidate (approx. 10 pages)	each (approx. 30 mm	utes) of				
Langua	age of a	ssessment: German an	d/or English					
credita	ble for	bonus						
Allocat	ion of p	olaces						
			_					
Additio	onal info	ormation						
Workload								
150 h								
Teaching cycle								
Teaching cycle: every semester								
Referred to in LPO I (examination regulations for teaching-degree programmes)								
	 Module appears in							
			omputor Interaction (2024)				
		gree (1 major) Human-C	•	·				
Bachelor's on (2024)	with 1 maj	or Human-Computer-Interacti-		enerated 18-Jun-2025 • exam DECTS) Human-Computer-Inte	-	page 30 / 50		

Module title Abbreviation						
Experie	Experience as a tester or subject in experiments 06-HCI-B-VPS-242-mo1					
Module	e coord	inator		Module offered by	1	
chairpe	erson o	f examination committee	of the Bachelor's	Institute of Human	Computer Media	
degree	progra	mme Human-Computer I	nteraction			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
1	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
module tion on can be	e, stude the dis found	ents switch sides and par stribution of subject hour on the degree program's	ticipate in experiments among the various	nts, not as leaders, b	nducting the experiment. In this out as subjects. Detailed informa- stitute Human-Computer Media	
Intend	ed lear	ning outcomes				
	hey car	n deduce which positive a			w subjects perceive empirical stu- can have from the perspective of	
	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)	
P (o)						
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
Acting	as a pa	rticipant in experiments	(30 hours)			
Allocat	ion of	places				
Additio	onal inf	ormation				
Worklo	ad					
30 h						
Teachi	ng cycl	e				
Teachi	ng cycl	e: every semester				
Referre	ed to in	LPOI (examination regu	lations for teaching-	degree programmes))	
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Human-Co	mputer-Interaction (2	2024)		

Module title				Abbreviation		
Specialisatio	n Usability		06-HCI-B-VUsab-242-m01			
Module coord	linator		Module offered by			
holder of the Chair of Psychological Ergonomics			Institute of Human	Computer Media		
	od of grading	Only after succ. com				
	erical grade					
Duration	Module level	Other prerequisites				
1 semester	undergraduate					
Contents						
human-comp of applicatior	uter interaction along the come from industrial use	criteria of effectivene	ess, efficiency and sa	taught in depth, i.e. the design of atisfaction during use. Examples		
Intended lear	ning outcomes					
domains and the field of hu ges of differe	will be able to design use iman-computer interactio nt usability methods, ana	er interfaces themselv n. Furthermore, they lyze and evaluate em	ves as well as condu are able to explain th pirical studies as we			
S (2)	e, number of weekly conta	ict nours, language —	in other than Germa	1)		
• •	nt in: German and/or Engl	ish				
Method of as		nguage — if other tha		tion offered — if not every seme-		
Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Hu- man-Computer Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						
Allocation of	places					
Additional in	ormation					
Workload						
150 h						
Teaching cycle						
Teaching cycle: every semester						
Referred to in	LPOI (examination regu	lations for teaching-c	legree programmes)			
 Module appears in						
	gree (1 major) Human-Co	mputer-Interaction (2	024)			
			יד			

Module title					Abbreviation		
Specia	Specialisation User Experience 06-HCI-B-VUsEx-242-mo1						
Module coordinator				Module offered by			
holder	of the (Chair of Psychological Erg	onomics	Institute of Human Computer Media			
ECTS		od of grading	Only after succ. com	npl. of module(s)			
5	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	undergraduate					
Conten	ts						
human	-compi d privat	uter interaction with regar te spheres and include, fo	rd to a good user exp	erience. Examples of	ience research, i.e. the design of f application come from the pu- asive interfaces, aesthetic design		
Intende	ed lear	ning outcomes					
thods a gate co plain th	and dor orresponder ne adva	nains and will be able to nding questions from the	design user interface field of human-comp	es themselves as we outer interaction. Fur	f selected user experience me- ll as conduct studies to investi- thermore, they will be able to ex- analyze and evaluate empirical		
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)		
S (2) Module taught in: German and/or English							
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)							
man-Co a) writt b) pres c) pres d) pres e) oral f) term Langua	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Hu- man-Computer Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
150 h							
Teaching cycle							
		e: every semester					
		LPO I (examination regu	lations for teaching-	degree programmes)			
Module	appea	urs in					
	Module appears in Bachelor's degree (1 major) Human-Computer-Interaction (2024)						

Module title					Abbreviation		
Selected topics of Computer Science Bachelor					10-HCI-B-AK-242-m01		
Module coordinator				Module offered by			
Dean c	of Studi	es Informatik (Computer	Science)	Institute of Human	Computer Media		
ECTS		od of grading	Only after succ. con	pl. of module(s)			
5	nume	rical grade					
Durati	on	Module level	Other prerequisites				
1 seme	ester	undergraduate					
Conter	nts						
Selecte	ed topi	cs in computer science.					
Intend	ed lear	ning outcomes					
		are able to understand th ed questions.	e solutions to compl	ex problems in comp	puter science and to transfer		
Course	es (type	, number of weekly conta	ct hours, language –	· if other than Germa	an)		
V/S (2)) + Ü/T	· · · · · · · · · · · · · · · · · · ·					
man-Co a) writh b) pres c) pres d) pres e) oral f) term Langua credita	ompute ten exa sentatio sentatio examir paper age of a ble for	er Systems: mination (approx. 90 min on (approx. 20 minutes) a on of project results (appro on (approx. 45 minutes) o nation of one candidate e (approx. 10 pages) Issessment: German and, bonus	nutes) or nd handout (approx. ox. 30 minutes) or r ach (approx. 30 minu	5 pages) or	ssment in the specialisations Hu		
Allocat	tion of	places					
Additio	phat inf	ormation					
Worklo	ad						
150 h							
Teaching cycle							
Teachi	Teaching cycle: every semester						
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)			
		!					
	e appea			````			
Bachel	ior's de	gree (1 major) Human-Co	mputer-interaction (2	024)			

Modul	e title				Abbreviation
Introduction to Programming (HCI) 10-HCI-B-EinP-242-mo					10-HCI-B-EinP-242-m01
Module coordinator				Module offered by	
holder	of the (Chair of Computer Scienc	e ll	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	undergraduate			
Conten	ts				
dural p the pro	orogram gramm	iming, data types, and co	ntrol structures. The -+ as well as an excur	lecture teaches the t sus on scripting lan	ion to object orientation, proce- theory with practical examples in guages. In the exercise, students va programs.
Intend	ed lear	ning outcomes	,		
•	•	ting in the module cours rograms. Students know		•	l, small to medium-sized, high- apply them.
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V (2) +	Ü (2)				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
lf anno examir	unced nation c 5 minut	of one candidate each (ar tes per candidate).	inning of the course,		tion may be replaced by an oral in groups of 2 candidates (ap-
Allocat	ion of p	places			
Additio	onal inf	ormation			
Worklo	ad				
150 h			· · · · · · · · · · · · · · · · · · ·		
Teachi	ng cycl	e			
Teachi	ng cycle	e: only in winter semeste	r		
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)	
Referre				regree programmes)	
		, <u> </u>			
 Module	e appea		<u>_</u>		

Module title					Abbreviation					
Introductory Programming Course (HCI)					10-HCI-B-EPP-242-m01					
Module coordinator Module offered										
Dean o	f Studi	es Informatik (Computer	Science)	Institute of Human	Computer Media					
ECTS	Methe	od of grading	Only after succ. con	npl. of module(s)	•					
5	(not) s	successfully completed								
Duratio	n	Module level	Other prerequisites							
1 seme	ster	undergraduate								
Conten	ts									
	ns. Du	ring the internship, stude			nedium sized, high quality Java ntly. Regular tutorials support					
Intende	ed lear	ning outcomes								
		ating in the module cours ava programs.	es, students will be a	ble to independentl	y develop small to medium sized,					
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)					
P (3)										
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-					
minute If anno examin	s) unced ation c	by the lecturer at the beg	inning of the course,	the written examina	examination (approx. 60 to 120 tion may be replaced by an oral in groups of 2 candidates (ap-					
Allocat	ion of _l	places								
Additio	nal inf	ormation								
Worklo	ad									
150 h										
Teaching cycle										
Teaching cycle: every semester										
Referred to in LPO I (examination regulations for teaching-degree programmes)										
Module appears in										
Bachel	or's de	gree (1 major) Human-Co	mputer-Interaction (2	.024)	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Modul	e title				Abbreviation	
Founda	ations /	Algorithms and Data Str	uctures (HCI)		10-HCI-B-GADS-242-m01	
Modul	e coord	inator		Module offered by	Module offered by	
Dean c	of Studi	es Informatik (Computer	Science)	Institute of Human	Computer Media	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ester	undergraduate				
Conter	nts					
-		nalysis of algorithms, rec , trees, graphs, basic gra			ods, data structures, abstract da-	
Intend	ed lear	ning outcomes				
studen	its knov		the design of algorit	hms and are able to	isely and to analyze them. The apply them to practical programs rove their correctness.	
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
V (4) +	Ü (2)					
		sessment (type, scope, l ion on whether module o			tion offered — if not every seme-	
lf anno examir prox. 1	ounced nation o	of one candidate each (a tes per candidate).	ginning of the course,		tion may be replaced by an oral 1 in groups of 2 candidates (ap-	
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	bad					
300 h						
300 h						
-	ng cycl	e				
Teachi		e e: only in winter semeste				
Teachi Teachi	ng cycl			degree programmes)		
Teachi Teachi	ng cycl	e: only in winter semeste		degree programmes)		
Teachi Teachi Referre	ng cycl	e: only in winter semeste LPOI (examination reg		degree programmes)		

Module title					Abbreviation	
Humar	n-Al Int	eraction			10-HCI-B-HAI-242-m01	
Modul	e coord	linator		Module offered by		
holder	ofthe	Professorship of Psychol	ogy of Intelligent In-	Institute of Human	Computer Media	
	ve Syst		r			
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5		rical grade				
Duratio	_	Module level	Other prerequisites			
1 seme		undergraduate				
Conter	nts		_			
			_			
Intend	ed lear	ning outcomes				
			_			
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	n)	
V (2) +	• •					
Modul	e taugh	it in: German and/or Eng	lish			
		sessment (type, scope, l ion on whether module o			tion offered — if not every seme-	
b) proj candid c) term Langua	iect woi late) wi 1 paper	th final presentation in g (10 to 15 pages) Issessment: German and	andidate each or in groups of up to 4 cand		idates, approx. 150 hours per inutes per candidate) or	
Alloca	tion of	places				
Additional information						
Additio						
Additio						
Additio Worklo	oad					
	oad					
 Worklo 150 h	oad ing cycl	e				
 Worklo 150 h Teachi	ing cycl		ster			
 Worklo 150 h Teachi Teachi	i ng cyc l ing cycl	e: only in summer semes		degree programmes)		
 Worklo 150 h Teachi Teachi	i ng cyc l ing cycl			degree programmes)		
 Worklo 150 h Teachi Teachi Referro	i ng cyc l ing cycl	e: only in summer semes LPO I (examination reg		degree programmes)		

Module title					Abbreviation
Interactive Systems Hands-On					10-HCI-B-ICGT-242-m01
Module coordinator				Module offered by	
holder	of the C	Chair of Computer Scienc	e IX	Institute of Human	Computer Media
ECTS	· · · · · · · · · · · · · · · · · · ·	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
Intende	ed learr	ning outcomes			
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)
Ü (1) +	T (2)				
Module	e taugh	t in: German and/or Engli	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) proje candida	ect worl ate) wit ge of a	h final presentation in gr ssessment: German and/	ndidate each or in gro oups of up to 3 cand		idates, approx. 150 hours per iinutes per candidate)
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Teachir	ng cycle	e: only in summer semest	ter		
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	irs in			
Bachel	Bachelor's degree (1 major) Human-Computer-Interaction (2024)				

Module title					Abbreviation	
Interac	tive Co	mputer Graphics			10-HCI-B-ICGV-242-m01	
Module	e coord	inator		Module offered by		
holder	ofthe	Chair of Computer Scienc	e IX	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
synthes light-m motion of 3 stu graphic	sis and atter ir and pr idents. cs softw	I manipulation of visual conteraction, illumination m rojections, and texturing to Accompanying exercises	ontent in the context odels, image formats techniques. The requ , software assignmer	of interactive 3D cor s, data representatio ired activities are pe nts, and discussions	rendering framework for digital nputer graphics. This includes n, mathematical formulations of rformed independently in groups assist students in using typical /or DirectX, as well as organizing	
	-	ning outcomes				
gital sy will hav	nthesi: ve a so	s and manipulation of vis	ual content in the co	ntext of interactive 3	y develop key components for di- D computer graphics. Students for digital synthesis and manipu-	
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)	
V (2) +	Ü (2)					
Module	e taugh	t in: German and/or Engl	ish			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
lf anno examin prox. 1 <u>9</u>	unced ation o 5 minut age of a	of one candidate each (ap tes per candidate). Issessment: German and,	inning of the course, pprox. 20 minutes) or		tion may be replaced by an oral in groups of 2 candidates (ap-	
Allocat	ion of _l	places				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Teachir	ng cycl	e: only in summer semest	ter			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)		
Module	e appea	ars in				
		gree (1 major) Human-Co	mputer-Interaction (2	2024)		

Module title				Abbreviation		
Interactive Systems Bac	Interactive Systems Bachelor 1 10-HCI-B-IS1-242-mo1					
Module coordinator			Module offered by			
holder of the Chair of Co	omputer Science	e IX	Institute of Human	Computer Media		
ECTS Method of grad	ing	Only after succ. com	pl. of module(s)			
5 numerical grade	e					
Duration Module l		Other prerequisites				
1 semester undergra	duate					
Contents	,					
special focus is on syste a common system in a c	ems for the real closed input-out examples inclu	ization of human-cor tput loop and require	nputer interaction, ir ments of different de	e field of interactive systems. A n which user and computer form egrees of reactivity up to real-ti- ased solutions, and virtual and		
Intended learning outco	omes					
day's computer systems Students will be able to	s with regard to select and eval	their interactivity and uate suitable solutio	d to derive technical on approaches and to	babilities and properties of to- measures for their realization. pols for tasks in the field of inter- ive approaches for future inter-		
Courses (type, number of	of weekly conta	ct hours, language —	· if other than Germa	n)		
V (2) + Ü (2) Module taught in: Germ	an and/or Engli	sh				
Method of assessment ster, information on whe				tion offered — if not every seme-		
 b) presentation (approx c) presentation of project d) presentation (approx e) oral examination of o f) term paper (approx. 10) Unless otherwise specific puter Systems. 	 a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Unless otherwise specified, the methods can be chosen from for assessment in the specialisations Human-Computer Systems. Language of assessment: German and/or English 					
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Teaching cycle: every se	emester					
Referred to in LPO I (ex		lations for teaching-o	legree programmes)			
			<u> </u>			
Module appears in						
Bachelor's degree (1 ma	ajor) Human-Cor	mputer-Interaction (2	024)			

Bachelor's with 1 major Human-Computer-Interacti-	JMU Würzburg • generated 18-Jun-2025 • exam. reg. data re-
on (2024)	cord Bachelor (180 ECTS) Human-Computer-Interaction - 2024

Module title			Abbreviation	
Interactive Systems Bachelor 2 10-HCI-B-IS2-242-mo1				
Module coordinator		Module offered by		
holder of the Chair of Computer Scien	ce IX	Institute of Human	Computer Media	
ECTS Method of grading Only after succ. compl. of module(s)				
5 numerical grade				
Duration Module level	Other prerequisites	i		
1 semester undergraduate	-			
Contents				
The module teaches basic requirement special focus is on systems for the reat a common system in a closed input-out me are crucial. Possible examples inclu- augmented reality systems.	lization of human-con utput loop and require	mputer interaction, in ements of different d	n which user and computer form egrees of reactivity up to real-ti-	
Intended learning outcomes				
After participating in the module cours day's computer systems with regard to Students will be able to select and eva active systems development. Furthern active systems.	o their interactivity an aluate suitable solutio	d to derive technical on approaches and to	measures for their realization. ools for tasks in the field of inter-	
Courses (type, number of weekly cont	act hours, language –	- if other than Germa	n)	
V/S (2) Module taught in: German and/or Eng	lish			
Method of assessment (type, scope, laster, information on whether module of			tion offered — if not every seme-	
Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Hu- man-Computer Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus				
Allocation of places				
Additional information				
Workload				
150 h				
Teaching cycle				
Teaching cycle: every semester				
Referred to in LPO I (examination regi	ulations for teaching-	degree programmes)		
Module appears in				
Bachelor's degree (1 major) Human-Co	mputer-Interaction (2	2024)		

Bachelor's with 1 major Human-Computer-Interacti-	JM
on (2024)	core

Module title			Abbreviation		
Interactive Systems Bachelor 3				10-HCI-B-IS3-242-m01	
Module	e coordinator		Module offered by		
holder	holder of the Chair of Computer Science IX		Institute of Human	Computer Media	
ECTS	Method of grading	Only after succ. compl. of module(s)			
5	numerical grade				
Duratio		Other prerequisites			
1 seme	ster undergraduate				
Conten	ts				
special a comm me are augmei	focus is on systems for the re non system in a closed input-o crucial. Possible examples inc nted reality systems.	alization of human-con utput loop and require	mputer interaction, ir ements of different d	e field of interactive systems. A n which user and computer form egrees of reactivity up to real-ti- ased solutions, and virtual and	
	ed learning outcomes				
day's co Studen active s	ts will be able to select and ev	o their interactivity an aluate suitable solutio	d to derive technical on approaches and to	babilities and properties of to- measures for their realization. pols for tasks in the field of inter- ive approaches for future inter-	
Course	s (type, number of weekly con	act hours, language –	- if other than Germa	n)	
R (o) Module	e taught in: German and/or Eng	glish			
	d of assessment (type, scope, formation on whether module			tion offered — if not every seme-	
man-Cc a) writte b) prese d) prese e) oral o f) term Langua	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Hu- man-Computer Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or c) presentation of project results (approx. 30 minutes) or d) presentation (approx. 45 minutes) or e) oral examination of one candidate each (approx. 30 minutes) or f) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus				
Allocat	ion of places				
Additio	nal information	_			
Worklo	ad				
150 h					
Teachir	ng cycle				
Teachir	ng cycle: every semester				
	d to in LPO I (examination reg	ulations for teaching-	degree programmes)		
Module	e appears in				
	or's degree (1 major) Human-C	omputer-Interaction (2	2024)		

Bachelor's with 1 major Human-Computer-Interacti-	JMU Wü
on (2024)	cord Bac

Module title					Abbreviation
Introduction to Higher Mathematics I					10-HCI-B-Math-I-242-m01
Module coordinator				Module offered by	
				Institute of Human	Computer Media
ECTS		od of grading	Only after succ. com	pl. of module(s)	
5	<u> </u>	rical grade			
Duratio		Module level	Other prerequisites		
1 seme		undergraduate			
Conten	ts				
Intende	ed learr	ning outcomes			
		, number of weekly conta	ct hours, language —	if other than Germa	n)
V (2) + Module	• •	t in: German and/or Engli	ish		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-
b) oral c) proje	examin ect worl ige of a	< (e.g. written solutions a sessment: German and/	ach or in groups of up and corresponding ex		; to 30 minutes per candidate) or pages total)
Allocat	ion of p	olaces			
Additio	onal info	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Teachir	ng cycle	e: only in winter semester			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	irs in			
Bachel	Bachelor's degree (1 major) Human-Computer-Interaction (2024)				

Module title					Abbreviation	
Introduction to Higher Mathematics II					10-HCI-B-Math-II-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	L	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		undergraduate				
Conten	ts					
Intende	ed leari	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
V (2) +						
		t in: German and/or Engl				
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
b) oral c) proje	examin ect worl ge of a	(e. g. written solutions a sessment: German and,	ach or in groups of up and corresponding ex		5 to 30 minutes per candidate) or pages total)	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)		
Module	e appea	irs in				
		gree (1 major) Human-Co	mputer-Interaction (2	024)		

Module title					Abbreviation	
Media	Informa	atics for HCI Bachelor			10-HCI-B-MI-242-m01	
Module coordinator				Module offered by		
holder	of the (Chair of Computer Scienc	e IX	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duration Module level Other prerequisites						
1 seme	semester undergraduate					
Conter	nts					
ly true This co own. T	for hun ourse as he topio	nan-computer interaction ssigns a well-defined proj	(HCI) which incorpor ect or task to (teams	ates engineering as of) students which t	ous sciences. This is specifical- well as empirical work skills. hey have to solve largely on their ocus on the engineering, aka	
Intend	ed lear	ning outcomes				
blem, ı	using ty		have learned how to		g of how to solve a coherent pro- leagues and to define, distribute	
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
• •	Ü/T (2) e taugh	t in: German and/or Engl	ish			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) oral Langua	examir	mination (approx. 50 min nation of one candidate e ssessment: German and, bonus	ach (approx. 20 minu	ites)		
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
	ng cycl	e				
reacht						
	ng cycle	e: only in winter semeste	ſ			
Teachi	<u> </u>	e: only in winter semester LPO I (examination regu		legree programmes)		
Teachi	<u> </u>	e: only in winter semester LPOI (examination regu		legree programmes)		
Teachi Referre 	<u> </u>	LPOI (examination regu		legree programmes)		

on (2024)

Modul	Module title Abbreviation						
Machine Learning 10-HCI-B-ML-242-mo1							
Modul	e coord	inator		Module offered by	ed by		
holder	of the (Chair of Computer Scienc	e IX	Institute of Human	Computer Media		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Durati	on	Module level	Other prerequisites				
1 seme		undergraduate					
Conte							
tistical port ve on, rec ce the gestur bots (p studer train a exercis	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						
		to organize the project as	s a whole.				
	-	ning outcomes ting in the module cours					
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 apply available tools to typically occurring tasks and know their advantages and disadvantages. Furthermore, you can independently familiarize yourself with complex technical systems as well as independently develop problem-solving proposals, communicate these in a team and integrate them in a prototype.							
	Courses (type, number of weekly contact hours, language — if other than German) V (2) + Ü (2)						
		t in: German and/or Engl	ish				
		sessment (type, scope, la on on whether module ca			tion offered — if not	every seme-	
a) presentation of project results (approx. 30 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							
150 h							
Teaching cycle							
Teaching cycle: only in winter semester							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
Bachelor's degree (1 major) Human-Computer-Interaction (2024)							
Bachelor's on (2024)	s with 1 ma	or Human-Computer-Interacti-		enerated 18-Jun-2025 • exam ECTS) Human-Computer-Inte	-	page 47 / 50	

Module	title				Abbreviation	
Development of Graphical User Interfaces					10-HCI-B-SPSE-242	-m01
Module coordinator				Module offered by		
holder o	of the C	hair of Computer Scier	ce IX	Institute of Human	Computer Media	
ECTS	Metho	d of grading	Only after succ. cor	npl. of module(s)		
10	numer	ical grade	10-HCI-B-EinP and 1	o-HCI-B-EPP		
Duratio	n	Module level	Other prerequisites			
1 semester undergraduate		-	Intended learning outcomes of the following module are required: 10- HCI-B-GADS. It is therefore strongly recommended to complete this befo- re.			
Content	ts					
carrying ware are one of n program applicat cussion red tech	g out m chitect many so nming. tion's ន្ រទ supp ឯព០logi	ent of software typically any different roles. The ure design, programmin oftware development m This course involves th graphical user interface ort the student groups es and activities as we rrent well-established a	activities required for ng, testing and integra ethodologies, like Sci e development of a no is of central importan in increasing their tea l as organising the ov	this process include tion. These activities rum, waterfall, iteration- trivial application ce. Along the way, pr mwork efficiency, far erall project. The tec	e requirements engir s can be organised b on, V-shaped, spiral by a group of 4-5 stu resentations, exercis miliarising themselv hnologies utilised an	neering, soft- by following l or Extreme udents. The ses and dis- es with requi-
		ing outcomes	<u></u>	, , ,	,	
course ' dents h selves v ming sk	"Softwa ow to ខ្ with ne kills (wł	communication of expo arepraktikum Schnittsto rather, analyse, specify w software technologie nich are a prerequisite f number of weekly con	ellenentwurf" ("Progra and validate software s and frameworks. In or participation in this	mming Course Interf requirements and to addition, students w course) during the p	ace Development") v o independently fam ill enhance their bas project's implementa	will teach stu- illiarise them- sic program-
		in: German and/or Eng	<u> </u>			
		essment (type, scope, on on whether module			tion offered — if not	every seme-
•	ge of a	f project results (appro ssessment: German an oonus				
Allocati	ion of p	laces				
Additio	nal info	ormation				
Workloa	ad					
300 h						
Teachin	ng cycle	9				
Teachin	ng cycle	e: only in winter semest	er			
Referre	d to in	LPOI (examination reg	ulations for teaching-	degree programmes)		
Module	appea	rs in				
Bachelo	or's deg	gree (1 major) Human-C	omputer-Interaction (2	2024)		
Bachelor's with 1 major Human-Computer-Interacti- on (2024) JMU Würzburg • generated 18-Jun-2025 • exam. reg. data re- cord Bachelor (180 ECTS) Human-Computer-Interaction - 2024 page 48 / 50						
on (2024)			cord Bachelor (180	ECIS) Human-Computer-Inte	eraction - 2024	

Module	title				Abbreviation	
Softwa	re Qual	lity			10-HCI-B-SQ-242-m01	
Module coordinator				Module offered by		
holder of the Chair of Computer Science IX			e IX	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
	1 semester undergraduate					
Conten						
cal soft ciency i delines	The module teaches techniques and practices for creating high-quality software. Specifically, principles of typi- cal software requirements such as reliability, testability, accuracy, security, reusability, maintainability, and effi- ciency in terms of runtime behavior and resource consumption are presented and discussed. Programming gui- delines and source code examples are used to teach concepts, techniques and tools for creating professional quality code and high quality software products.					
Intende	ed learr	ning outcomes				
theory a	and me		uality software produ	ucts. Students will be	rize, explain, and implement e able to compare, describe, and	
Course	s (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
		t in: German and/or Engli				
		s essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
written examination (60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (ap- prox. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Teaching cycle: only in winter semester						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Bachelo	Bachelor's degree (1 major) Human-Computer-Interaction (2024)					

Module title Abbreviation					Abbreviation	
Software Technology (HCI) 10-HCI-B-ST-242-m01						
Module	coord	inator		Module offered by		
Dean o	f Studie	es Informatik (Computer S	Science)	Institute of Human	Computer Media	
ECTS		od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	1 semester undergraduate					
Conten	ts					
and ob	ject-rel		of web programming	(HTML, XML), softwa	r interfaces, basics of databases ire development processes, uni- ce.	
Intende	ed learı	ning outcomes				
The stu	dents p	possess basic and theore	etical and practical kr	nowledge to design a	and develop software systems.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
V (2) + Module	• • •	t in: German and/or Engl	ish			
		e ssment (type, scope, la on on whether module ca			tion offered — if not every seme-	
lf anno examin	unced ation o 5 minut	f one candidate each (ap es per candidate).	inning of the course,		tion may be replaced by an oral in groups of 2 candidates (ap-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Teachir	ng cycle	e: only in summer semest	ter			
Referre	d to in	LPOI (examination regu	lations for teaching-o	degree programmes)		
Module	appea	irs in				
		gree (1 major) Human-Co				