

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Human-Computer Systems as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Human Sciences

Responsible: Institute of Human Computer Media

Responsible: Faculty of Mathematics and Computer Science

Examination regulations version: 2022

Examination regulations version: 2022

Examination regulations version: 2022

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

= 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 for the

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: thod 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 a 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:

ASP02015

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

24-Nov-2021 (2021-81)

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.

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessm	ent								
	Only after su completion of		ıl if applica	applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants and allocation of places		ocati- if applica	if applicable							
	Additional information		ion if applica	if applicable							
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Course	es (126 E	CTS cre	dits)										
o6-MCS-GL-	Founda	tions of	f Human-(Compu	ter-Systems and Co	gnitive Psychology							
AP-152-m01	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	•	V (2)	/ (2) + V (3) + Ü (1)								
	Method of assessment			If ann of one date) Langu	written examination (approx. 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 (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus								
10-MCS-EinP-161-	Introdu	ction to	Program	ming	(MCS)								
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (2)								
	Method of assessment			If ann of one date)	written examination (approx. 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 (approx. 15 minutes per candidate). creditable for bonus								
o6-PSY-	Statistics 1												
STAT-1-202-m01	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		S (4) + Ü (2)									
	Method of assessment		essment	written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus									
	Additio	nal Info	rmation	Komp	Kompetenzen gem. PsychTh-ApprO Anlage 1:Wissenschaftliche Methodenlehre (4 ECTS)								
10-MCS-GADS-161-	Founda	tions A	lgorithms	and D	ata Structures (MCS	5)		'					
mo1	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	-	V (4)	V (4) + Ü (2)								
				written examination (approx. 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 (approx. 15 minutes per candidate). creditable for bonus									

o6-PSY-	Statisti	Statistics 2											
STAT-2-202-m01	ECTS	6	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S	•	S (4) -	+ Ü (2)	•		•					
	Method	of asse	essment		n examination (appı								
				Langu	Language of assessment: German and/or English								
		1. 6		creditable for bonus									
				Kompetenzen gem. PsychTh-ApprO Anlage 1Wissenschaftliche Methodenlehre (4 ECTS)									
10-MCS-ST-161-	$\overline{}$		nology (N		r	1		1					
mo1	ECTS 10 Duration		Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (4) -									
	Method	l of asse	essment			rox. 60 to 120 minute		:	wanda aad bu an anal ayansin stian				
				of one	ounced by the lectu - candidate each (ar	rer at the beginning (anrox 20 minutes) o	or the course, the written examination in groups	ination may be of a candidate	replaced by an oral examination				
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).								
					creditable for bonus								
10-MCS-EPP-161-	Introdu	ctory Pi	rogrammi	ing Cou	ırse (MCS)								
mo1	ECTS 10 Duratio			ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			P (6)									
	Method of assessment				practical examination (programming exercises, approx. 240 hours) and written examination (approx. 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 (approx. 15 minutes per candi-									
			date).										
06-MCS-SGP-152-	Selecte	d Areas	of Psych										
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			$V(2) + \ddot{U}(1)$									
	Method	l of asse	essment	written examination (approx. 90 minutes)									
				Langu	Language of assessment: German and/or English								
					able for bonus	,		1					
10-MCS-SPSE-222-					r Interfaces	,		,					
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			Ü (4)									
	Method	l of asse	essment		presentation of project results (approx. 20 minutes)								
				Language of assessment: German and/or English creditable for bonus									
					anie iui nuiius								

10-MCS-SQ-152-	Softwar	re Quali	ity					,				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	-	V (2)	•	•						
	Method	of asse	essment			prox. 60 to 120 minut						
					Language of assessment: German and/or English creditable for bonus							
o6-MCS-	Usability and User Experience Evaluation											
Usab-222-mo1		10	Duration		1 semester Method of grading numerical grade Modul level undergraduate							
	Courses			+ Ü (4)	Method of grading	numerical grade	Modul level	undergraduate				
			essment		ject report (approx	(12 page) or						
	Method	1 01 0556	2551116111	b) ora	al examination of o	ne candidate each (ar	prox. 30 minutes)					
				Langi	b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English							
					table for bonus							
	Particip								Humanities (Master of Arts with			
	cation o	or place	S		.20 ECTS credits). Places will be allocated primarily according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot.							
o6-MCS-	Research Methods											
Meth-1-152-m01	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	1	V (2)	+ Ü (2)	'						
	Method of assessment				written examination (approx. 90 minutes)							
				Language of assessment: German and/or English creditable for bonus								
o6-MCS-	Francis		. 4 4 - 11 -	r subject in experiments								
06-MCS- Meth-2-152-m01					î .		(+)	J	Lundanina duata			
Weth 2 152 mor		1	Duratio		1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate			
i i	Courses			P (o)			1					
10-MCS-ICGV-222-					· · ·	n experiments (30 hou	irs)					
mo1			nputer G		1	Mathada Faradina	I muma mi a allama da	Madulland	Lundayaya du ata			
		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
 	Courses			V (2)		t mint)						
	Method	or asse	essment		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 (approx. 15 minutes per candi-							
				date).								
				Language of assessment: German and/or English creditable for bonus								
				creal	anie ioi nollus							

10-MCS-ICGT-152-	Interac	tive Co	mputer G	raphic	s Exercise							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	:S		Ü (1)	+ T (2)	·						
	Method	d of ass	sessment	Langi	resentation of project results (approx. 20 minutes) anguage of assessment: German and/or English reditable for bonus							
o6-MCS-MBG-222-	Metho	Methods for User-Centered Design										
mo1	ECTS 10 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	:S		V (2)	+ Ü (4)		•					
	Method	d of ass	sessment	b) ora	project report (approx. 12 pages) or oral examination of one candidate each (approx. 30 minutes) anguage of assessment: German and/or English reditable for bonus							
06-MCS-IDA-222-	Inclusi	ve Desi	ign & Acce	ssibili	ibility							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			S (2)								
	Method of assessment			b) ter Langı credi	a) presentation (approx. 20 minutes) and handout (approx. 5 pages) or b) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus							
06-MCS-AT-152-	Current Trends of Human-Computer Systems											
mo1	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course			S (2)	S (2)							
	Method of assessment		Langi	presentation (approx. 20 minutes) with handout (approx. 5 pages) Language of assessment: German and/or English creditable for bonus								
o6-MCS-Prot-222-	Interac	tion Pr	ototyping									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	·S		S (2)	S (2)							
	Method of assessment			a) presentation (approx. 20 minutes) and handout (approx. 5 pages) or b) presentation of project results (approx. 30 minutes) or c) term paper (approx. 10 pages) Language of assessment: German and/or English creditable for bonus								

Compulsory Electives (22 ECTS credits)
One of the following modules must be taken: MCS-Projekt Psychologie (MCS Project Psychology), MCS-Projekt Informatik (MCS Project Computer Science), MCS-Projekt Interdisciplinary).

MCS Specialization (10 ECTS credits)

•												
06-MCS-V1-152-	Specia	lization	MCS 1									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		S (2)	S (2)							
	Method of assessment			Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-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								
06-MCS-V2-152-	Specialization MCS 2											
mo1	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	•	V (2) + Ü (1)								
	Method of assessment			ter Sy a) wri b) pre c) pre d) pre e) ora f) tern Langu	stems: tten examination (a) esentation (approx. 2) sentation of project esentation (approx. 2) I examination of one n paper (approx. 10)	pprox. 90 minutes) o 20 minutes) and hand results (approx. 30 n 45 minutes) or e candidate each (ap	r dout (approx. 5 pages) or ninutes) or prox. 30 minutes) or	or assessment in the	e specialisations Human-Compu-			

10-MCS-IS1-152-	Interac	tive Sy	stems 1		-							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (2)	+ Ü (2)							
	Metho	d of ass	sessment	Unle	Inless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compu-							
					er Systems: a) written examination (approx. 90 minutes) or b) presentation (approx. 30 minutes) and handout (approx. 5 pages) or							
					p) presentation (approx. 20 minutes) and handout (approx. 5 pages) or presentation of project results (approx. 30 minutes) or							
						ox. 45 minutes) or	milates) of					
				e) or	al examination of	one candidate each (ap	prox. 30 minutes) or					
					m paper (approx.		15 - 1.					
					uage of assessme table for bonus	ent: German and/or Eng	usn					
10-MCS-IS2-152-	Interac	tive Sv	stems 2	crear	Table for bonds							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (2)			<u> </u>					
	Metho	d of ass	sessment	Unle	Inless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compu-							
				ter S	ter Systems:							
					a) written examination (approx. 90 minutes) or b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or							
					c) presentation (approx. 20 minutes) and nandout (approx. 5 pages) or							
					d) presentation (approx. 45 minutes) or							
					e) oral examination of one candidate each (approx. 30 minutes) or							
					term paper (approx. 10 pages).							
					anguage of assessment: German and/or English							
12 MCC IC2 172	lastana	tive Co		crea	creditable for bonus							
10-MCS-IS3-152- mo1			stems 3		1	Mathada & aradina]	Madulland	Lundarana du ata			
	ECTS	5	Duratio		1 semester	Method of grading	Thumerical grade	Modul level	undergraduate			
	Course			R (2)		·C: 1 (1 C 11 · · ·		· · · · · · · · · · · · · · · · · · ·				
	Metho	a or ass	sessment		ss otnerwise spec ystems:	iriea, the following met	nods can be chosen fror	m for assessment in the	e specialisations Human-Compu-			
						(approx. 90 minutes) c	or					
				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								
					table for bonus	coman ana, or Eng						

10-MCS-Med-222-	Media	Media Informatics for MCS												
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2) -	+ Ü/T (2)			,						
	Method	d of ass	essment			pprox. 50 minutes) o								
					b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									
					creditable for bonus									
10-MCS-AKI-152-	Selecte	d topic	s of Comp	nputer Science										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (2) -	+ Ü (1)									
				ter Sy a) wri b) pre c) pre d) pre e) ora f) tern Langu credit	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-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									
06-MCS-OMK-222-		logy of			ile Communication	1								
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course			V (2)										
	Method of assessment			a) written examination (approx. 50 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus										
	Participants and allo- cation of places			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.										

o6-MCS-VU-	Specialis	ation Usability	,								
sab-152-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)								
	Method o	f assessment			ied, the following met	hods can be chosen from	for assessment in th	e specialisations Human-Compu-			
				/stems:	·						
) written examination (approx. 90 minutes) or) presentation (approx. 20 minutes) and handout (approx. 5 pages) or) presentation of project results (approx. 30 minutes) or) presentation (approx. 45 minutes) or) oral examination of one candidate each (approx. 30 minutes) or							
				al examination of o m paper (approx. 10		prox. 30 minutes) or					
						lish					
				anguage of assessment: German and/or English creditable for bonus							
o6-MCS-VU-	Specialis	ation User Exp	erienc	e							
sEx-152-mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)								
	Method o	f assessment		Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compu-							
			ter Systems: a) written examination (approx. 90 minutes) or								
				b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or							
			c) pre	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).							
			Lang	anguage of assessment: German and/or English							
				creditable for bonus							
o6-MCS-VHu-		ation Human F		·	,						
Fa-152-mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)								
	Method o	f assessment			ied, the following met	hods can be chosen from	for assessment in the	e specialisations Human-Compu-			
				/stems: itten examination (approx. 90 minutes) o	ır					
			b) pr	esentation (approx	. 20 minutes) and han	dout (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								
			credi	table for bonus							

o6-MCS-De-	Interfa	ce & In	teraction l	Design]		,				
sign-222-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		S (2)				·			
o6-MCS-Med-	Method	d of ass	sessment	Unlester Sya) wrb) proc) proc) proco ora f) terrical Langing	less otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-C Systems: written examination (approx. 90 minutes) or presentation (approx. 20 minutes) and handout (approx. 5 pages) or presentation of project results (approx. 30 minutes) or presentation (approx. 45 minutes) or oral examination of one candidate each (approx. 30 minutes) or erm paper (approx. 10 pages). nguage of assessment: German and/or English editable for bonus						
Psy-222-mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		V (2)							
				b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus							
MCS Project (12 E											
o6-MCS-Proj-			sychology								
Psy-152-mo1	ECTS	12	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course			Ü (2)							
	Metho	d of ass	sessment	report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus							
10-MCS-Proj-In-	MCS P	roject (Computer	Scienc	e			,			
fo-152-mo1	ECTS	12	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	25		Ü (2)	_			·			
	Method	d of ass	sessment								
o6-MCS-Proj-	MCS P	roject l	nterdiscip	linary							
Int-152-mo1	ECTS	12	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		Ü (2)							
	Metho	d of ass	sessment	report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus							
Bachelor's with 1 major	r Human-Com	puter Syst	tems (2022)				JMU Würzburg • generate	d 07-Mai-2025 • exam. reg. data ı	record 82 b60 - - H 2022 page 11 / 12		

Key Skills Area (20	ECTS cred	lits)									
General Key Skills (5 ECTS credits)											
General Key Skills In addition to the m			dents r	may also take modul	es offered by JMU as part of the pool of general tran	nsferable skills	(ASQ).				
06-MCS-ASQ-152-	Work exp	erience as a re	search	earch and teaching assistant							
mo1	ECTS 5	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses		P (o)								
	Method o	of assessment	Exper	ience report (approx	a. 2 pages)						
Subject-specific Ke	y Skills (1	5 ECTS credits)									
o6-MCS-Ex-	Exhibitio	n MCS Thesis									
hib-152-m01	ECTS 5	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses		S (1)								
	Method o	of assessment			Bachelor's thesis (approx. 15 minutes)						
					German and/or English		,				
o6-MCS-	Practice/Job-oriented Internship										
BPrakt-152-mo1	ECTS 1	o Duratio		1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses		P (o)								
	Method o	of assessment		report on work placement (approx. 2 pages)							
	Additiona	al Information	Addit	ional information on	module duration: no less than 10 weeks.						
Thesis (12 ECTS cre	edits)										
o6-MCS-The-	Bachelor	's Thesis									
sis-152-m01	ECTS 1	2 Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	·	No co	urses assigned to m	odule						
	Method o	of assessment		elor's thesis (approx							
				age of assessment:							
	Additiona	al Information	Time to complete: 12 weeks.								