

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

Examination regulations version: 2015 Examination regulations version: 2015

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

= 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)):

09-Sep-2015 (2015-145)

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	To 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	ssessme	ent								
	Only after su completion o		l if applica	if applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		cati- if applica	if applicable							
	Additional information		on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)					

Compulsory Course			•	Ompu	tor-Systems and C	ognitive Psychology					
AP-152-m01	$\overline{}$	8	Duration		1 semester	Method of grading	numorical grado	Modul level	undergraduate		
· · · - · · · · · · · · · · · · · · · ·	Course		Duration		+ V (3) + Ü (1)	Method of grading	i iluillelical glade	Modul level	undergraduate		
			essment	written examination (approx. 120 minutes)							
				If ann of one date) Langu credit	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-I-EinP-152-m01	Introdu	ction to	Program	ming							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (2)	+ Ü (2)						
	Method	i of ass	essment	If ann of one date)	creditable for bonus						
	Referred to in LPO I				§ 49 Nr. 1 b) § 69 Nr. 1 b)						
o6-PSY-	Statistics 1										
STAT-1-152-m01	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		S (4) + Ü (2)							
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus							
10-I-ADS-152-m01	Algorit	hms an	d data str	ucture	S	,		"			
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4)	+ Ü (2)		·				
	Method	l of ass	essment	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							
	Referre	d to in	LPO I	§ 49 l § 69 l	Nr. 1 a) Nr. 1 a)						

o6-PSY-	Statist	ics 2	1			'						
STAT-2-152-m01	ECTS	6	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S	Į.	S (4)	+ Ü (2)	'	•	'	•			
	Metho	d of ass	essment	writte	written examination (approx. 120 minutes)							
					Language of assessment: German and/or English							
				credit	reditable for bonus							
10-I-ST-152-m01		re Tech										
	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course				+ Ü (2)							
	Metho	d of ass	essment	If ann of on 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							
	Referre	ed to in I	LPO I		49 Nr. 1 b) 69 Nr. 1 b)							
10-I-PP-152-m01	Practical Course in Programming											
	ECTS	10	Duratio	<u> </u>		Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	:S		P (6)		•		•				
	Method of assessment			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).								
	Referred to in LPO I			§ 49 Nr. 1 c) § 69 Nr. 1 d)								
06-MCS-SGP-152-	Selecte	ed Areas	s of Psych	ology								
mo1	ECTS	5	Duratio	i i	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	:S		V (2)	+ Ü (1)	•		•				
	Metho	d of ass	essment	Langı	written examination (approx. 90 minutes) Language of assessment: German and/or English creditable for bonus							
10-MCS-SPSE-152-	Progra	mming	Course In	terface	e Development							
mo1	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	!S		Ü (4)								
	Metho	d of ass	essment	presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus								

10-MCS-SQ-152-	Softwa	re Qual	ity								
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2)			*				
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes) Language of assessment: German and/or English creditable for bonus							
o6-MCS-Usab-152-	Usabili	ty and S	Software	Ergono	mics						
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	/ (2) + Ü (4)						
	Method	d of ass	essment	project report (approx. 12 pages) Language of assessment: German and/or English creditable for bonus							
		oants ar of place		120 E	3 places. The indicated number of places will be allocated to students of the subject Digital Humanities (Master of Arts with 120 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-	Resear	ch Meth	nods								
Meth-1-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ Ü (2)						
	Method of assessment			Langu	n examination (applage of assessment: able for bonus	rox. 90 minutes) German and/or English					
o6-MCS-	Experie	ence as	as a tester or subject in experiments								
Meth-2-152-mo1	ECTS	1	Duration	า	1 semester	Method of grading (not) successfully complete	ed Modul level	undergraduate			
	Course	S	•	P (o)							
	Method	of ass	essment	Acting as a participant in experiments (30 hours)							
10-MCS-ICGV-152-	Interac	tive Cor	mputer Gr	aphics			'				
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		V (2)							
	Method	d of ass	essment	Langu		rox. 60 to 120 minutes) German and/or English					
10-MCS-ICGT-152-		tive Cor			Exercise						
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		Ü (1) -	+ T (2)						
				nt presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus							

06-MCS-MBG-152-													
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses	;		V (2)	+ Ü (4)	<u> </u>							
	Method	of asse	essment		ct report (approx. 1								
						t: German and/or English							
ac MCC IDA	In almain	na Danis	O A		table for bonus								
06-MCS-IDA-152- mo1			gn & Acce		r e	Made at a Compliant and a complete	NA - J. J. J 1	Lundania duata					
11101		5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			S (2)			f						
	Method	or asse	essment	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems:									
				a) wri	tten examination (a	approx. 90 minutes) or							
						20 minutes) and handout (approx. 5 pages)	or						
						t results (approx. 30 minutes) or							
					presentation (approx. 45 minutes) or oral examination of one candidate each (approx. 30 minutes) or								
					term paper (approx. 10 pages)								
					uage of assessment table for bonus	t: German and/or English							
06-MCS-AT-152-	Current	Tronds	of Huma		puter Systems								
mo1		5 Duration			1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		Duratio	S (2)	1 Semester	Method of grading Indifferent grade	Modulitevel	undergraduate					
			eccment	presentation (approx. 20 minutes) with handout (approx. 5 pages)									
	Method	01 0330	essille lit		Language of assessment: German and/or English								
					creditable for bonus								
06-MCS-IGL-152-	Interact	ion Gui	idalinas										
mo1			Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
mo1	ECTS Courses	5	Duratio	S (2)									
mo1	ECTS Courses	5	Duratio	S (2) Unles	ss otherwise specifi	Method of grading numerical grade							
mo1	ECTS Courses	5	Duratio	S (2) Unles ter Sy	ss otherwise specifi	ed, the following methods can be chosen fro							
mo1	ECTS Courses	5	Duratio	S (2) Unles ter Sy a) wri	ss otherwise specifi estems: tten examination (a	ied, the following methods can be chosen fro	om for assessment in th						
mo1	ECTS Courses	5	Duratio	S (2) Unlester Sya) wrib) prec) pre	ss otherwise specifi estems: tten examination (a esentation (approx. esentation of projec	ied, the following methods can be chosen from approx. 90 minutes) or 20 minutes) and handout (approx. 5 pages) at results (approx. 30 minutes) or	om for assessment in th						
mo1	ECTS Courses	5	Duratio	S (2) Unlester Sya) wrib) prec) pred) pred)	ss otherwise specifi estems: tten examination (a esentation (approx. esentation of project esentation (approx.	ied, the following methods can be chosen from approx. 90 minutes) or 20 minutes) and handout (approx. 5 pages) at results (approx. 30 minutes) or 45 minutes) or	om for assessment in th						
mo1	ECTS Courses	5	Duratio	S (2) Unlester Sya) wrib) pred) pred	es otherwise specificatems: Itten examination (approx.esentation (approx.esentation (approx.esentation (approx.esentation (approx.esentation of or	red, the following methods can be chosen from approx. 90 minutes) or 20 minutes) and handout (approx. 5 pages) at results (approx. 30 minutes) or 45 minutes) or ne candidate each (approx. 30 minutes) or	om for assessment in th						
mo1	ECTS Courses	5	Duratio	S (2) Unlester Sya) wrib) prec) pred) prefe) oraff terr	es otherwise specificatems: Itten examination (approx.esentation (approx.esentation (approx.esentation (approx.esentation (approx.esentation of or paper (approx.esentation)	red, the following methods can be chosen from approx. 90 minutes) or 20 minutes) and handout (approx. 5 pages) at results (approx. 30 minutes) or 45 minutes) or ne candidate each (approx. 30 minutes) or	om for assessment in th						

One of the following terdisziplinär (MCS	g modules mu	ıst be taken	ı: MCS-l	Projekt Psychologie	e (MCS Project Psycho	ology), MCS-Projekt Info	ormatik (MCS Project Co	mputer Science), MCS-Projekt In-				
06-MCS-V1-152-	Specialization	on MCS 1										
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		S (2)									
	Method of as	ssessment	ter Sys a) writ b) pres c) pres d) pres e) oral f) term Langu	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compter 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-	Specializatio											
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) +	- Ü (1)				<u> </u>				
	Method of as		ter Sys a) writ b) pres c) pres d) pres e) oral f) term Langu	stems: ten examination (a sentation (approx. sentation of project sentation (approx. I examination of on paper (approx. 10	pprox. 90 minutes) o 20 minutes) and han t results (approx. 30 r 45 minutes) or e candidate each (ap	r dout (approx. 5 pages) ninutes) or prox. 30 minutes) or		e specialisations Human-Compu-				
10-MCS-IS1-152-	Interactive S	-			1	•						
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses Method of as	ssessment	ter Sys a) writ b) pres c) pres d) pres e) oral f) term Langu	s otherwise specifications: Iten examination (a sentation (approx. sentation of project sentation (approx. l examination of on paper (approx. 10	pprox. 90 minutes) o 20 minutes) and han t results (approx. 30 r 45 minutes) or e candidate each (ap	r dout (approx. 5 pages) ninutes) or prox. 30 minutes) or		e specialisations Human-Compu-				

10-MCS-IS2-152-	Interac	tive Sy	stems 2					
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course	es		V (2)	•	·	•	
	Method	d of ass	essment	ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	ss otherwise speci ystems: tten examination esentation (approx esentation of projects esentation (approx all examination of compaper (approx. 1) uage of assessmentable for bonus	e specialisations Human-Compu-		
10-MCS-IS3-152-	Interac	tive Sy	stems 3					
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course			R (2)				
				ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu credit	Unless otherwise specified, the following methods can be chosen from forter 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			e specialisations Human-Compu-
10-MCS-Med-152-	Media	Informa	itics for M	CS				
mo1	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate
	Course	es .		V (2)	+ Ü (2)			
	Metho	d of ass	essment	a) written examination (approx. 60 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) term paper (approx. 20 pages) or d) portfolio (approx. 20 pages) Language of assessment: German and/or English creditable for bonus				

10-MCS-AKI-152-	Selecte	ed topic	s of Comp	uter S	cience							
mo1	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	·S		V (2)	+ Ü (1)	·						
	Method	d of ass	essment			fied, the following methods can be chosen from f	or assessment in th	e specialisations Human-Compu-				
					stems:	(
					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) term paper (approx. 10 pages)							
						nt: German and/or English						
					table for bonus							
06-MCS-Inst-152-	Instruc	tional I	Sycholog	y for N	or MCS							
mo1	ECTS 5 Duratio		1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (2)	_							
	Method	Method of assessment			written examination (approx. 110 minutes)							
					Language of assessment: German and/or English creditable for bonus							
o6-MCS-VU-	Specia	lisation	Usability									
sab-152-mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course		l .	S (2)	1							
	Method	d of ass	essment	Unles	s otherwise speci	fied, the following methods can be chosen from f	or assessment in th	e specialisations Human-Compu-				
					stems:			·				
						(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							
				d) pre								
					n paper (approx. 1	o pages) nt: German and/or English						
					table for bonus	na demian ana/or English						

o6-MCS-VU-	Specia	lisation	ı User Exp	erienc	e		'					
sEx-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	es	·	S (2)	=-		·					
	Metho	d of ass	essment	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compu-								
					ter Systems:							
					n) written examination (approx. 90 minutes) or presentation (approx. 20 minutes) and handout (approx. 5 pages) or							
					presentation (approx. 20 minutes) and nandout (approx. 5 pages) or presentation of project results (approx. 30 minutes) or							
) presentation (approx. 45 minutes) or							
						one candidate each (approx. 30 minutes) or	ſ					
					n paper (approx.							
					nguage of assessment: German and/or English editable for bonus							
o6-MCS-VHu-	Specia	lisation	n Human F				,					
Fa-152-mo1	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			S (2)				-				
ACC MAN			sessment	ter Sy a) wri b) pre c) pre d) pre e) ora f) teri Langi credi	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human ter 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							
o6-MCS-Med- Psy-152-mo1			logy for N		1							
F5y-152-11101	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course			V (2)								
	Method of assessment			b) ora Langi	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							
o6-MCS-Proj-	MCS P	roject P	sychology	y								
Psy-152-mo1	ECTS	12	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	es		Ü (2)		·						
	Metho	d of ass	sessment	Langi	t (approx. 10 page uage of assessme table for bonus	es) nt: German and/or English						

10-MCS-Proj-In-	MCS Pr	oject Co	omputer S	Science	 e						
fo-152-mo1	ECTS	12	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	s	•	Ü (2)			•				
	Method	d of asse	essment	Langu	eport (approx. 10 pages) .anguage of assessment: German and/or English .reditable for bonus						
o6-MCS-Proj-	MCS Pr	oject In	terdiscip	linary			,				
Int-152-mo1	ECTS	12	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		Ü (2)							
	Method	d of asse	essment	Langu	port (approx. 10 pages) nguage of assessment: German and/or English editable for bonus						
Key Skills Area (20	ECTS cr	edits)									
General Key Skills In addition to the n				dents r	nay also take modu	les offered by JMU as part of the pool of general trar	nsferable skills	(ASQ).			
General Key Skills	(subject	-specifi	c)								
06-MCS-ASQ-152-	Work e	xperien	ce as a re	s a research and teaching assistant							
mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Course	S		P (o)							
	Methoc	d of asse	essment	nt Experience report (approx. 2 pages)							
Subject-specific Ke	y Skills	(15 ECT:	S credits)								
o6-MCS-Ex-	Exhibit	ion MCS	S Thesis								
hib-152-m01	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Course	S		S (1)							
	Method	d of asse	essment			Bachelor's thesis (approx. 15 minutes) German and/or English					
o6-MCS-	Practic	e/Job-o	riented In	ternsh	ip						
BPrakt-152-mo1	ECTS	10	Duration	1	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Course	S		P (o)							
	Method	d of asse			on work placement						
	Additio	nal Info	rmation	Additi	onal information or	n module duration: no less than 10 weeks.					

Thesis (12 ECTS cre	Thesis (12 ECTS credits)										
o6-MCS-The-	Bachelor's Thesis										
sis-152-m01	ECTS 12 Duration 1 semester Method of grading numerical grade Modul level undergraduate										
	Courses			No co	No courses assigned to module						
	Method	d of asse	essment	Bache Langu	lor's thesis (approx age of assessment:						
Additional Information Time to complete: 12 weeks.											