



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 Examination regulations version: 2016 Responsible: Institute of Human Computer Media Examination regulations version: 2016 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} = 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 cremodules 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:

ASPO2015

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

04-Apr-2016 (2016-54)

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	ssessme	ent							
	Only after su completion of		l if applica	if applicable						
	Other prereq	uisites	if applica	if applicable						
	Participants and allocati- on of places		ocati- if applica	if applicable						
	Additional information		on if applica	if applicable						
	Referred to in LPO I		if applica	ble (examination re	gulations for teaching	g-degree programmes)				

Compulsory Course	ompulsory Courses (126 ECTS credits)										
o6-PSY-	Statist	ics 1									
STAT-1-152-m01	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	2	Modul level	undergraduate		
	Course	S	-	S (4) ·	+ Ü (2)						
	Metho	d of ass	essment	Langu	n examination (app lage of assessment: able for bonus	rox. 120 minutes) : German and/or English					
o6-PSY-	Statist	ics 2									
STAT-2-152-m01	ECTS	6	Duratio	n	1 semester	Method of grading numerical grade	2	Modul level	undergraduate		
	Course	S		S (4) ·	+ Ü (2)						
			essment	Langu credit	able for bonus	: German and/or English					
o6-MCS-GL-					omputer-Systems and Cognitive Psychology						
AP-152-m01	ECTS	8	Duratio		1 semester	Method of grading numerical grade	2	Modul level	undergraduate		
	Course	S		V (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 candi- date). Language of assessment: German and/or English creditable for bonus						
06-MCS-SGP-152-	Selecte	ed Areas	s of Psych	ology							
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	2	Modul level	undergraduate		
	Course	S		$V(2) + \ddot{U}(1)$							
	Method of assessment			Langu	written examination (approx. 90 minutes) Language of assessment: German and/or English creditable for bonus						
10-MCS-SPSE-152-		mming	Course In	terface	terface Development						
m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	2	Modul level	undergraduate		
	Course	-		Ü (4)							
	Metho	d of ass	essment	Langu	presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus						

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10-MCS-SQ-152-	Software Q	uality								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (2)	V (2)						
	Method of a	assessment		written examination (approx. 60 to 120 minutes)						
					: German and/or English					
o6-MCS-Usab-152-	llsahility a	nd Software		creditable for bonus						
m01	ECTS 10	Duration	-	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	Duration		+ Ü (4)		Modulievei				
		assessment		ct report (approx. 12	nages)					
	meenou or e	ussessment			: German and/or English					
				able for bonus						
	Participants				umber of places will be allocated to students of the					
	cation of pl	aces			will be allocated primarily according to the number semesters, places will be allocated by lot.	of subject seme	esters; among applicants with the			
o6-MCS-	Research N	Nethods	Joanno							
Meth-1-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (2) -	ι + Ü (2)						
	Method of a	assessment		n examination (app			-			
			Language of assessment: German and/or English creditable for bonus							
- (MCC	F									
06-MCS- Meth-2-152-m01			· · · · · ·	ect in experiments	Mothed of grading (not) successfully completed	Madullaval	undergraduate			
		Duratio	P (o)	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Courses		Acting as a participant in experiments (30 hours)							
10-MCS-ICGV-152-		Computer Gi								
mo1	ECTS 5	Duration	-	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	Duratio	V (2)	1 Semester	method of glading humcheat glade	Modulievei	undergraduate			
		assessment	written examination (approx. 60 to 120 minutes)							
	method of t	ussessment	Language of assessment: German and/or English							
				creditable for bonus						
10-MCS-ICGT-152-				aphics Exercise						
m01	ECTS 5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		Ü (1) -							
	Method of a	assessment			sults (approx. 20 minutes) : German and/or English					
				able for bonus						

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06-MCS-MBG-152-	Metho	ds for U	ser-Cente	ered De	sign					
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	es		V (2)	+ Ü (4)		·	*		
	Metho	d of ass	essment		ct report (approx. 12					
					lage of assessment able for bonus	: German and/or Eng	lish			
06-MCS-IDA-152-	Inclusi	ive Desig	gn & Acce							
m01	ECTS	5	Duration		1 semester Method of grading numerical grade Modul level undergraduate					
	Course	-		S (2)	100001	11.00.00 - 0.0.0.0			41140-3-44444	
06-MCS-AT-152-				ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu credit	stems: tten examination (a sentation (approx. sentation of projec sentation (approx. l examination of or n paper (approx. 10	approx. 90 minutes) o 20 minutes) and han t results (approx. 30 r 45 minutes) or ne candidate each (ap	r dout (approx. 5 pages) o ninutes) or prox. 30 minutes) or		e specialisations Human-Compu-	
mo1	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	-		S (2)						
	Metho	d of ass	essment	presentation (approx. 20 minutes) with handout (approx. 5 pages) Language of assessment: German and/or English creditable for bonus						
06-MCS-IGL-152-	Intera	ction Gu	idelines							
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course			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: 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						

10-MCS-EinP-161-	Introd	uction to	Program	iming (MCS)							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (2) ·	+ Ü (2)							
	Metho	d of asse	essment	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 candi- date). creditable for bonus							
10-MCS-GADS-161-	Found	ations A	lgorithms	s and D	ata Structures (MCS)						
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V (4) -	+ Ü (2)							
	Method of assessment			lf 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 candi- date). creditable for bonus							
10-MCS-ST-161-	Softwa	Software Technology (MCS)										
m01	ECTS 10 Duration		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	-		V (4) + Ü (2)								
	Method of assessment			If ann of one date).	ounced by the lecture candidate each (ap	er at the beginning o	of the course, the written exami		replaced by an oral examination 5 (approx. 15 minutes per candi-			
10-MCS-EPP-161-	Introd	uctory P	rogrammi	ing Co	ng Course (MCS)							
m01	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (6)									
	Method of assessment			if ann of one	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).							

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 Interdisziplinär (MCS Project Interdisciplinary).

MCS Specialization (10 ECTS credits)											
06-MCS-V1-152-	-	lization									
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	_	S (2)	!				,		
	Method of 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) 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										
m01	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses		$V(2) + \ddot{U}(1)$							
	Method of assessment			ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	stems: tten examination (a sentation (approx. sentation of project sentation (approx. l examination of or n paper (approx. 10	approx. 90 minutes) of 20 minutes) and hand t results (approx. 30 n 45 minutes) or ne candidate each (ap	, dout (approx. 5 pages) c ninutes) or prox. 30 minutes) or		e specialisations Human-Compu-		

10-MCS-IS1-152-	Interac	tive Sy	stems 1		,							
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ Ü (2)							
	Metho	d of ass	sessment	Unles	Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Compu-							
					stems:							
				a) wr	itten examination	ı (approx. 90 minutes) or ox. 20 minutes) and handout (approx. 5 pages)	or.					
						ect results (approx. 30 minutes) or	01					
						ox. 45 minutes) or						
				e) ora	al examination of	one candidate each (approx. 30 minutes) or						
					m paper (approx.							
					uage of assessme table for bonus	ent: German and/or English						
10-MCS-IS2-152-	Interac	tive Sv	stems 2	leicui								
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)	-							
	Metho	d of ass	sessment	Unles	nless 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) 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							
	Intores	tive Cu	atoma a	creditable for bonus								
10-MCS-IS3-152- m01		<u> </u>	stems 3			Mathead of any ding a sum arian areado		un devena durate				
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	-		R (2)			<u> </u>					
	Metho	Method of assessment			ss otherwise spec /stems:	ified, the following methods can be chosen fro	om for assessment in th	e specialisations Human-Compu-				
						(approx, oo minutes) 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							
					al examination of n paper (approx.	one candidate each (approx. 30 minutes) or						
						ent: German and/or English						
					table for bonus							

10-MCS-Med-152-	Media Inform	atics for M	CS			·			
m01	ECTS 5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2) ·	+ Ü (2)					
	Method of ass	sessment	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-	Selected topi	cs of Comp	outer S	cience					
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2) ·	+ Ü (1)		•			
	Method of as	sessment	ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	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) 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-Inst-152-	Instructional	Psycholog	y for N	ICS					
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		V (2)						
	Method of ass	sessment	written examination (approx. 110 minutes) Language of assessment: German and/or English creditable for bonus						
o6-MCS-VU-	Specialisation	n Usability							
sab-152-m01	ECTS 5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses		S (2)						
	Method of ass	sessment	ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	stems: tten examination (a sentation (approx. sentation of projec sentation (approx. l examination of on n paper (approx. 10	e candidate each (approx. 30 minutes) or	r assessment in th	e specialisations Human-Compu-		

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o6-MCS-VU-	Specia	lisation	User Exp	erienc	e					
sEx-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		S (2)	-					
		-	essment	Unlest ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	Juless 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. 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 c) term paper (approx. 10 pages) c.anguage of assessment: German and/or English c:reditable for bonus					
o6-MCS-VHu-	Specia	lisation	i Human F	actors						
Fa-152-m01	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		S (2)						
					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-			logy for N							
Psy-152-m01		5	Duratio				Modul level	undergraduate		
	Course	-		V (2)						
	Methoo	d of ass	essment	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						
MCS Project (12	ECTS credi	ts)								
o6-MCS-Proj-	MCS Pr	roject P	sychology	/						
Psy-152-m01	ECTS	12	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		Ü (2)						
	Method	d of ass	sessment	Langu	report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus					

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10-MCS-Proj-In-	MCS Project Computer Science												
fo-152-m01	ECTS 12 Duration			ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		Ü (2)	~	· · · · · · · · · · · · · · · · · · ·								
	Metho	d of ass	essment	report (approx. 10 pages)									
				Language of assessment: German and/or English									
				creditable for bonus									
I			terdiscip										
	ECTS 12 Duration				1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			Ü (2)									
	Metho	od of ass	essment	report (approx. 10 pages)									
				Language of assessment: German and/or English creditable for bonus									
Koy Skills Aroa (ao													
Key Skills Area (20 ECTS credits)													
General Key Skills (5 ECTS credits) 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).													
General Key Skills					,		P						
06-MCS-ASQ-152-				coarch	and toaching accie	tant							
mo1	ECTS		Duratio	search and teaching assistant 1 semester Method of grading (not) successfully completed Modul level undergraduate									
					1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Cours			P (o) Experience report (approx. 2 pages)									
					ience report (approx	(. 2 pages)							
Subject-specific Ke	y Skill	5 (15 ECT	S credits)										
o6-MCS-Ex- hib-152-mo1	Exhib	tion MC	S Thesis										
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			S (1)									
	Metho	d of ass	essment	presentation of results of Bachelor's thesis (approx. 15 minutes)									
				Language of assessment: German and/or English									
o6-MCS- BPrakt-152-mo1		ce/Job-o	riented In										
	ECTS	10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Cours	es		P (o)									
	Metho	d of ass	essment	report on work placement (approx. 2 pages)									
	Additi	onal Info	rmation	Additional information on module duration: no less than 10 weeks.									

Thesis (12 ECTS credits)											
o6-MCS-The- sis-152-mo1	Bachelor's Thesis										
	ECTS	12 Duration		1	1 semester	Method of grading	numerical grade	Modul leve	undergraduate		
	Course	s		No courses assigned to module							
	Methoo	l of asse		Bachelor's thesis (approx. 30 pages) Language of assessment: German or English							
	Additio	nal Info	rmation	Time to complete: 12 weeks.							