

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: 2018

Examination regulations version: 2018

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 modules in this SFB: ditable for bonus.

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

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)):

07-Mar-2018 (2018-14)

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 sp	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	sessm	ent								
	Only after su completion o		ıl if applic	f applicable							
	Other prereq	uisites	if applic	if applicable							
	Participants on of places		ocati- if applic	if applicable							
	Additional in	formati	ion if applic	if applicable							
	Referred to in	า LPO I	if applic	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Course	es (126 EC	TS credits)							
o6-MCS-GL-	Foundati	ons of Human-	Comput	er-Systems and Co	gnitive Psychology				
AP-152-m01	ECTS 8	Duration	n [1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (2) +	· V (3) + Ü (1)					
	Method o	of assessment	If anno of one date). Langua	candidate each (ap	rer at the beginning o	an oral examination in g	examination may be roups of 2 candidates	replaced by an oral examination s (approx. 15 minutes per candi-	
10-MCS-EinP-161-	Introduct	ion to Program	ming (I	MCS)					
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (2) +	· Ü (2)			•		
			of one date).	announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exa fone candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes p ate). editable for bonus					
o6-PSY-	Statistics	5 1							
STAT-1-152-mo1	ECTS 6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (4) +	Ü (2)				_	
	Method o	of assessment	written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus						
10-MCS-GADS-161-	- Foundations Algorithms and Data Structures (MCS)								
mo1	ECTS 1	o Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) +	· Ü (2)					
	Method of assessment		If anno of one date).	ounced by the lectur	rer at the beginning o	of the course, the written		replaced by an oral examination s (approx. 15 minutes per candi-	
o6-PSY-	Statistics	5 2							
STAT-2-152-m01	ECTS 6	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		S (4) +	Ü (2)			-		
	Method o	of assessment	written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus						

10-MCS-ST-161-	Softwa	re Tech	nology (N	ICS)								
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (4)	+ Ü (2)							
	Method	d of asse	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). date). creditable for bonus							
10-MCS-EPP-161-	Introdu	ctory P	rogramm	ing Co	urse (MCS)							
mo1	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Course	S	-	P (6)	•		•					
	Method	if a of c dat			actical examination (programming exercises, approx. 240 hours) and written examination (approx. 60 to 120 minutes) announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candite).							
06-MCS-SGP-152-	Selected Areas of Psychology											
mo1	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses			V (2)	+ Ü (1)							
	Method of assessment			written examination (approx. 90 minutes) Language of assessment: German and/or English creditable for bonus								
10-MCS-SPSE-152-	Prograi	mming	Course In	terface Development								
mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		Ü (4)	_							
	Method	Method of assessment pre			oresentation of project results (approx. 20 minutes) Language of assessment: German and/or English Creditable for bonus							
10-MCS-SQ-152-	Softwa	re Quali	ity									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (2)								
	Method of assessment			Langu	written examination (approx. 60 to 120 minutes) Language of assessment: German and/or English creditable for bonus							

52- Usability and Software Ergonomics											
ECTS	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
Course	s S		V (2) +	+ Ü (4)		•					
Method	of ass	essment									
5		1 11									
				places. The indicated number of places will be allocated to students of the subject Digital Humanities (Master of Arts with							
cation	or place	.5									
Resear	ch Meth	nods			· · · · · · · · · · · · · · · · · · ·	'					
ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
Course	S		V (2) +	+ Ü (2)		•					
Method	d of asse	essment									
					: German and/or English						
Evnovio		a tastar a									
				 	Mathad of grading (not) suggestfully completes	l Madullaval	undergraduate				
			,								
			` ′	z ac a participant in	ovnoriments (so hours)		_				
			<u> </u>	1	Mothod of grading numerical grade	Modul loval	undergraduate				
			1 Semester	Method of grading Indinental grade	Modulitevel	undergraduate					
			` '	``							
Method of assessment											
Interac	tive Cor	nputer Gr	aphics	Exercise		'					
ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
Course	S		Ü (1) +	+ T (2)							
Method	d of ass	essment									
					: German and/or English						
Mathae	de for III	car Canta					-				
				 	Method of grading humorical grade	Modulloval	undergraduate				
		Duration			Method of grading numerical grade	Modulitevel	undergraduate				
		occmont			a nagos)						
Method	u di assi	essment	projec	ic report (approx. 12)	: pages) : German and/or English						
	ECTS Course Method Resear ECTS Course Method Experie ECTS Course Method Interac ECTS Course Method Interac ECTS Course Method Interac ECTS Course Method Interac ECTS Course Course Course Method Interac ECTS Course Course Course Method Interac ECTS Course Course Method	ECTS 10 Courses Method of assort Participants arcation of place Research Method ECTS 5 Courses Method of assort Interactive Core ECTS 5 Courses Method of assort Interactive Core ECTS 5 Courses Method of assort Method of assort Interactive Core ECTS 5 Courses Method of assort Interactive Core ECTS 10 Courses	ECTS 10 Duration Courses Method of assessment Participants and allocation of places Research Methods ECTS 5 Duration Courses Method of assessment Interactive Computer Green Secures Interactiv	ECTS 10 Duration Courses V (2) - Method of assessment Participants and allocation of places 3 places 120 E same Research Methods ECTS 5 Duration V (2) - Method of assessment Writte Language Credit V (2) - Method of assessment P (0) Method of assessment Acting Interactive Computer Graphics ECTS 5 Duration Courses V (2) - Method of assessment Writte Language V (2) Method of assessment Writte Language V (2) Method of assessment Writte Language V (2) Method of assessment Method of assessment P (0) Method P (0) M	ECTS 10 Duration 1 semester Courses V (2) + Ü (4) Method of assessment creditable for bonus Participants and allocation of places 3 places. The indicated in 120 ECTS credits). Places same number of subject Research Methods ECTS 5 Duration 1 semester Courses V (2) + Ü (2) Method of assessment creditable for bonus Experience as a tester or subject in experiments ECTS 1 Duration 1 semester Courses P (0) Method of assessment Acting as a participant in Interactive Computer Graphics ECTS 5 Duration 1 semester Courses V (2) Method of assessment Acting as a participant in Interactive Computer Graphics ECTS 5 Duration 1 semester Courses V (2) Method of assessment written examination (app Language of assessment creditable for bonus Interactive Computer Graphics Exercise ECTS 5 Duration 1 semester Courses V (2) Method of assessment presentation of project receditable for bonus Methods for User-Centered Design ECTS 10 Duration 1 semester Courses V (2) + Ü (4) Method of assessment project report (approx. 12 Method of assessment project report (approx. 12 Method of assessment project report (approx. 12	ECTS 10 Duration 1 semester Method of grading numerical grade	ECTS 10 Duration 1 semester Method of grading numerical grade Modul level				

06-MCS-IDA-152-	Inclusi	ve Desi	gn & Acce	ssibili	ty		"					
mo1	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	·S		S (2)		·	•					
			essment	Unlester Sya) wrib) prec) pred) preel ora	ess otherwise specified, the following methods can be chosen from for assessment in the specialisations Humblystems: ritten examination (approx. 90 minutes) or resentation (approx. 20 minutes) and handout (approx. 5 pages) or resentation of project results (approx. 30 minutes) or resentation (approx. 45 minutes) or ral examination of one candidate each (approx. 30 minutes) or rm paper (approx. 10 pages). ruguage of assessment: German and/or English itable for bonus							
06-MCS-AT-152-	Curren	t Trends	of Huma	n-Com	puter Systems							
mo1	ECTS 5 Duratio		า	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			S (2)	,		-					
	Method of assessment		Langu	presentation (approx. 20 minutes) with handout (approx. 5 pages) Language of assessment: German and/or English creditable for bonus								
06-MCS-IGL-152-	Interac	tion Gu	idelines									
mo1	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	:S		S (2)	-		-					
	Method	d of ass	essment	ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	stems: tten examination (esentation (approx esentation of project esentation (approx al examination of o m paper (approx. 1	ne candidate each (approx. 30 minutes) or	or assessment in th	e specialisations Human-Compu-				

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	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	·S	<u>'</u>	S (2)						
ACC Market	Method	d of asse	essment	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			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	·S	•	V (2) +	+ Ü (1)			•		
	Method	d of asse	essment	ter Sy a) writ b) pre c) pre d) pre e) ora f) tern Langu	stems: tten examination (apsentation (approx. 2) sentation of project sentation (approx. 4) l examination of one paper (approx. 10 p	oprox. 90 minutes) of to minutes) and hand results (approx. 30 n 5 minutes) or to candidate each (ap	r dout (approx. 5 pages) or ninutes) or prox. 30 minutes) or	sessment 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	·S		V (2)	+ Ü (2)					
	Method	d of ass	essment	ter Sy a) wr b) pro c) pro d) pro e) ora f) tern Lang	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 c) presentation (approx. 45 minutes) or c) oral examination of one candidate each (approx. 30 minutes) or c) term paper (approx. 10 pages). c) anguage of assessment: German and/or English reditable for bonus					
10-MCS-IS2-152-	Interac	tive Sy	stems 2					,		
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course			V (2)	-1		<u> </u>		1	
				a) wr b) pro c) pro d) pro e) ora f) tern Lang	vistems: itten examination esentation (approxesentation of project elementation (approxed examination of or paper (approxed examination) esentable for bonus					
10-MCS-IS3-152-		tive Sy	stems 3							
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Method		essment	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						

10-MCS-Med-152-	Media	Informa	tics for M	CS	"						
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	.S		V (2)	+ Ü (2)	·					
	Method	d of ass	essment	b) ora c) ter d) po Langi	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	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	!S		V (2)	+ Ü (1)						
				a) wri b) pre c) pre d) pre e) ora f) terr Langu credi	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-VU-		lisation	Usability								
sab-152-m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course			S (2)							
	Method	d of ass	essment	ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	stems: itten examination (esentation (approx esentation of project esentation (approx al examination of o m paper (approx. 10	ne candidate each (approx. 30 minutes) or	er assessment in the	e specialisations Human-Compu-			

o6-MCS-VU-	Specia	lisation	User Exp	erienc	<u></u> е						
sEx-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	es		S (2)	•			•	•		
	Method of assessment			ter Sy a) wri b) pre c) pre d) pre e) ora f) terr Langu	nless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Comp r 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 term paper (approx. 10 pages). anguage of assessment: German and/or English						
o6-MCS-VHu-	Specia	lication	Human F		able for bonus						
Fa-152-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			S (2)	1 2 2 2 2 2 2	method of grading	Thumber out grade	modulitorol	_ uuo.g.uuuuto		
				b) pre c) pre d) pre e) ora f) terr Langu credi	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-		<u> </u>	logy for M	CS							
Psy-152-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses Method of assessment			V (2) 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							
06-MK-OMK1-162-	Psycho	ology of	Online ar	id Mol	oile Communicatio	n 1					
mo1	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25		V (2)	+ S (2)						
	Metho	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 EC	TS credi	its)									
o6-MCS-Proj-	MCS P	roject P	sychology	,							
Psy-152-mo1	ECTS	12	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S.	`	Ü (2)							
	Method	d of ass	essment	Langu	eport (approx. 10 pages) .anguage of assessment: German and/or English creditable for bonus						
10-MCS-Proj-In-	MCS Project Computer Science										
fo-152-mo1	ECTS 12 Duratio		Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			Ü (2)				•			
	Method	d of ass	essment	Langu	ort (approx. 10 pages) guage of assessment: German and/or English ditable for bonus						
o6-MCS-Proj-	MCS P	roject In	nterdiscip	linary							
Int-152-mo1	ECTS	12	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	:S		Ü (2)				,			
	Method of assessment		essment	Langu	t (approx. 10 pages) lage of assessment able for bonus	: German and/or Eng	lish				
Key Skills Area (20	ECTS cr	edits)									
General Key Skills	(5 ECTS	credits)									
General Key Skills In addition to the r				dents r	may also take modu	les offered by JMU as	part of the pool of general tra	ınsferable skills	(ASQ).		
06-MCS-ASQ-152-	Work e	xperien	ice as a re	search	and teaching assis	stant					
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course			P (o)							
	Method	d of ass	essment	Exper	ience report (appro	x. 2 pages)					
Subject-specific Ke	ey Skills	(15 ECT	S credits)								
o6-MCS-Ex-	Exhibit	ion MC	S Thesis								
hib-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	·S		S (1)							
	Method of assessment			presentation of results of Bachelor's thesis (approx. 15 minutes) Language of assessment: German and/or English							

o6-MCS-	Practic	e/Job-or	iented In	ternsh	ernship					
BPrakt-152-mo1	ECTS	10	10 Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses			P (o)	· (o)					
	Method of assessment			report	report on work placement (approx. 2 pages)					
	Additio	nal Info	rmation	Additional information on module duration: no less than 10 weeks.						
Thesis (12 ECTS cre	edits)									
o6-MCS-The-	Bachelor's Thesis									
sis-152-m01	ECTS	12	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	Courses			No courses assigned to module					
	Method of assessment			Bachelor's thesis (approx. 30 pages) Language of assessment: German or English						
	Additio	nal Info	rmation	Time to complete: 12 weeks.						