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: 2022
Responsible: Institute of Human Computer Media	Examination regulations version: 2022
Responsible: Faculty of Mathematics and Computer Science	Examination regulations version: 2022

Abbreviations used:	Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **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 modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.
	Should 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)):

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 specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y				
	Method of assessment						
	Only after successful completion of	if applicable					
	Other prerequisites	if applicable					
	Participants and allocation of places	if applicable					
	Additional information	if applicable					
	Referred to in LPO I	if applicable (examination regulations for teaching-degree programmes)					

Compulsory Courses (126 ECTS credits)							
06-MCS-GL-AP-152-mo1	**Foundations of Human-Computer-Systems and Cognitive Psychology**						
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + V (3) + Ü (1)					
	Method of assessment		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-mo1	**Introduction to Programming (MCS)**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (2)					
	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). creditable for bonus					
06-PSY-STAT-1-202-mo1	**Statistics 1**						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		S (4) + Ü (2)					
	Method of assessment		written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus					
	Additional Information		Kompetenzen gem. PsychTh-ApprO Anlage 1:Wissenschaftliche Methodenlehre (4 ECTS)					
10-MCS-GADS-161-mo1	**Foundations Algorithms and Data Structures (MCS)**						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (4) + Ü (2)					
	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). creditable for bonus					

06-PSY-STAT-2-202-m01	**Statistics 2**						
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		S (4) + Ü (2)				
	Method of assessment		written examination (approx. 120 minutes) Language of assessment: German and/or English creditable for bonus				
	Additional Information		Kompetenzen gem. PsychTh-ApprO Anlage 1Wissenschaftliche Methodenlehre (4 ECTS)				

10-MCS-ST-161-m01	**Software Technology (MCS)**						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (4) + Ü (2)				
	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). creditable for bonus				

10-MCS-EPP-161-m01	**Introductory Programming Course (MCS)**						
	ECTS	10	Duration	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 candidate).				

06-MCS-SGP-152-m01	**Selected Areas of Psychology**						
	ECTS	5	Duration	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-222-m01	**Development of Graphical User Interfaces**						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (4)				
	Method of assessment		presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus				

10-MCS-SQ-152-m01	**Software Quality**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2)					
	Method of assessment		written examination (approx. 60 to 120 minutes) Language of assessment: German and/or English creditable for bonus					

06-MCS-Usab-222-m01	**Usability and User Experience Evaluation**						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (4)					
	Method of assessment		a) project report (approx. 12 pages) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus					
	Participants and allocation of places		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.					

06-MCS-Meth-1-152-m01	**Research Methods**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (2)					
	Method of assessment		written examination (approx. 90 minutes) Language of assessment: German and/or English creditable for bonus					

06-MCS-Meth-2-152-m01	**Experience as a tester or subject in experiments**						
	ECTS	1	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		P (0)					
	Method of assessment		Acting as a participant in experiments (30 hours)					

10-MCS-ICGV-222-m01	**Interactive Computer Graphics**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2)					
	Method of assessment		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 candidate). Language of assessment: German and/or English creditable for bonus					

10-MCS-ICGT-152-m01	**Interactive Computer Graphics Exercise**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (1) + T (2)				
	Method of assessment		presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus				

06-MCS-MBG-222-m01	**Methods for User-Centered Design**						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (4)				
	Method of assessment		a) project report (approx. 12 pages) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus				

06-MCS-IDA-222-m01	**Inclusive Design & Accessibility**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		S (2)				
	Method of assessment		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-m01	**Current Trends of Human-Computer Systems**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		S (2)				
	Method of assessment		presentation (approx. 20 minutes) with handout (approx. 5 pages) Language of assessment: German and/or English creditable for bonus				

06-MCS-Prot-222-m01	**Interaction Prototyping**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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 Interdisziplinär (MCS Project Interdisciplinary).							

MCS Specialization (10 ECTS credits)							
06-MCS-V1-152-m01	**Specialization MCS 1**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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-m01	**Specialization MCS 2**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (1)					
	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					

10-MCS-IS1-152-m01	**Interactive Systems 1**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (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				
10-MCS-IS2-152-m01	**Interactive Systems 2**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (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				
10-MCS-IS3-152-m01	**Interactive Systems 3**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		R (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				

10-MCS-Med-222-m01	**Media Informatics for MCS**							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü/T (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						

10-MCS-AKI-152-m01	**Selected topics of Computer Science**							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2) + Ü (1)						
	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-OMK-222-m01	**Psychology of Online and Mobile Communication for MCS**							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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 allocation 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.						

06-MCS-VU-sab-152-m01	**Specialisation Usability**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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-VU-sEx-152-m01	**Specialisation User Experience**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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-VHu-Fa-152-m01	**Specialisation Human Factors**						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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-De-sign-222-m01	**Interface & Interaction Design**							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		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-Med-Psy-222-m01	**Media Psychology for MCS**							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (2)						
	Method of assessment		a) written examination (approx. 50 minutes) or 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 ECTS credits)

06-MCS-Proj-Psy-152-m01	**MCS Project Psychology**							
	ECTS	12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (2)						
	Method of assessment		report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						

10-MCS-Proj-Info-152-m01	**MCS Project Computer Science**							
	ECTS	12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (2)						
	Method of assessment		report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						

06-MCS-Proj-Int-152-m01	**MCS Project Interdisciplinary**							
	ECTS	12	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		Ü (2)						
	Method of assessment		report (approx. 10 pages) Language of assessment: German and/or English creditable for bonus						

Key Skills Area (20 ECTS credits)

General Key Skills (5 ECTS credits)

General Key Skills (subject-specific)
In addition to the modules listed below, students may also take modules offered by JMU as part of the pool of general transferable skills (ASQ).

06-MCS-ASQ-152-m01	**Work experience as a research and teaching assistant**							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		P (o)					
	Method of assessment		Experience report (approx. 2 pages)					

Subject-specific Key Skills (15 ECTS credits)

06-MCS-Ex-hib-152-m01	**Exhibition MCS Thesis**							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		S (1)					
	Method of assessment		presentation of results of Bachelor's thesis (approx. 15 minutes) Language of assessment: German and/or English					

06-MCS-BPrakt-152-m01	**Practice/Job-oriented Internship**							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		P (o)					
	Method of assessment		report on work placement (approx. 2 pages)					
	Additional Information		Additional information on module duration: no less than 10 weeks.					

Thesis (12 ECTS credits)

06-MCS-The-sis-152-m01	**Bachelor's Thesis**							
	ECTS	12	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		No courses assigned to module					
	Method of assessment		Bachelor's thesis (approx. 30 pages) Language of assessment: German or English					
	Additional Information		Time to complete: 12 weeks.					