



## **Annex SFB**

## Studienfachbeschreibung (subject description, SFB) for Module studies (Master) Computer Science

Responsible: Faculty Responsible: Institute	of Mathematics and Computer Science e of Computer Science	Examination regulations version: 2019 Examination regulations version: 2019							
Abbreviations used:	Course types: <b>E</b> = field trip, <b>K</b> = colloquium, <b>O</b> = conversatorium, <b>P</b> = placement/lab course, <b>R</b> = project, <b>S</b> = seminar, <b>T</b> = tutorial, <b>Ü</b> = exercise, <b>T</b> = lecture								
	Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester								
	thods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed								
	programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b>								
	<pre>Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)</pre>								
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments wil ditable for bonus.	l be offered every semester and modules are not cre-							
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer thod of assessment to be used in the current semester by two weeks after the start of the co customary manner.	on to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me e used in the current semester by two weeks after the start of the course at the latest and will communicate this in the							
	Should a module comprise more than one graded assessment, all assessments will be equa	ally weighted, unless otherwise stated below.							
	hould the assessment comprise several individual assessments, successful completion of the module will require successful completion of a ndividual assessments.								

In accordance with the general regulations governing the degree subject described in this module catalogue:

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

15-May-2019 (2019-36)

27-Jun-2019 (2019-41)

14-Nov-2019 (2019-52)

22-Jan-2020 (2020-13)

06-May-2020 (2020-39)

22-Jul-2020 (2020-57)

17-Dec-2020 (2020-110)

10-Mar-2021 (2021-17)

09-Jun-2021 (2021-58)

22-Dec-2021 (2021-85)

05-Jul-2022 (2022-52)

31-Jan-2023 (2022-86)

15-Jun-2023 (2023-58)

13-Dec-2023 (2023-107)

07-Aug-2024 (2024-82)

22-Jan-2025 (2025-1)

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		
Computer Science (	2010)	IMILWürzburg • generated 10-Apr-2025 • exam. reg. data record MMlozol-I-IHI2010	nage 2 / 08

ECTS		Durati	ion	(in semesters)	Method of grading		Module level	
Courses	Courses			cified in the form )	K (y) with course type X	abbreviated as specified abo	ove and number of we	ekly contact hours y
Method of a	ssessm	nent						
Only after successful completion of			if applica	ble				
Other prerec	quisites	5	if applica	ble				
Participants on of places	and all	locati-	if applica	ble				
Additional in	nformat	tion	if applica	ble				
Referred to i	n LPO I		if applica	ble (examination r	egulations for teaching	g-degree programmes)		

Summer Term 2019	mer Term 2019											
10-l=3D-161-m01	3D Poi	nt Cloud	Processi	ng								
	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	+ Ü (2)							
				Modu	Module taught in: English							
	Metho	d of asse	essment	writte If ann of one date). Separ 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 candi- date). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,LR,HCI,GE								
10-I=AA-152-m01	Advan	ced Auto	mation									
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (4) +	$V(4) + \ddot{U}(2)$							
	Metho	d of asse	essment	written examination (approx. 60 to 120 minutes) creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE								
	Referre	ed to in L	PO I	§ 22    Nr. 3 b)								
10-l=AG-161-m01	Compu	utational	Geometi	у								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) + Ü (2)								
	Metho	d of asse	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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focus AT,HC	es available for stud I,GE	lents of the Master's	programme Informatik (Compu	iter Science, 120	ECTS credits):			

10-I=APA-161-m01	Approximation Algorithms											
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	es	•	V (2) -	(2) + Ü (2)							
	Metho	od of ass	essment	writte	vritten 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-								
				l angi	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additi	onal Info	ormation	Focus AT,IT,	es available for stu GE	dents of the Master's programme Informatik (Com	puter Science, 120	ECTS credits):				
	Referr	ed to in l	POI	§ 22	I Nr. 3 b)							
10-I=AKA-161-m01	Selec	ted Topic	s in Algo	rithms								
	ECTS 5 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	es		V (2) -	+ Ü (2)							
	Method of assessment			writte	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								
				date)								
				Langu	Language of assessment: German and/or English							
				creditable for bonus								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
				AT	AT							
10-I=A-	Selec	ted Topic	s in Embe	edded S	ed Systems							
KES-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Cours	es		V (2) -	+ Ü (2)							
	Metho	od of ass	essment	writte	n examination (app	rox. 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								
				date)	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
				Langu	lage of assessment:	: German and/or English						
				credit	able for bonus	-						
	Additi	onal Info	ormation	Focus	es available for stu	dents of the Master's programme Informatik (Com	puter Science, 120	o ECTS credits): ES.				

10-I=AKH-	Selecte	Selected Topics in HCI											
Cl-182-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) +	$/(2) + \ddot{U}/S(2)$								
	Metho	d of ass	essment	writte	written examination (60 to 120 minutes)								
				If ann	ounced by the lectur	rer at the beginning	of the course, the written examination in groups	ination may be	replaced by an oral examination				
				date).	date).								
				Langu	age of assessment:	German and/or Eng	lish						
			-	credit	creditable for bonus								
	Additio	onal Info	rmation	Focus	cuses available for students of the Master's programme Informatik (Computer Science, 120 ECIS credits): HCl.								
10-I=AKII-182-m01	Selecte	ed Topic	s in Com	puter S	cience								
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	<i>.</i>	V (2) +	e) + Ü/S (2)								
	Metho	d of asso	essment	writte	n examination (appr	ox. 60 to 120 minute	es).	ination may be	rankaged by an oral examination				
				of one	e candidate each (ac	prox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx, 15 minutes per candi-				
				date).					- (approved)				
				Langu	anguage of assessment: German and/or English reditable for bonus								
	Calast			credit	able for bonus								
10-I=AKIS-161-m01	Selected Topics in Inter			ligent s	systems				Laws durate				
	ECIS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) +	+ U (2)								
	Metho	d of asso	essment	written examination (approx. 60 to 120 minutes).									
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-									
				date).	date).								
				Langu	age of assessment:	German and/or Eng	lish						
	Additic	nal Info	rmation	Focus	Jeunable for buildente of the Masteric programme informatily (Computer Science, 100 ECTS and ite). IS								
10-I=AKIT-161-m01	Select	ed Topic	s in Inter	net Tec	hnologies								
	FCTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) +	- Ü (2)				3				
	Metho	d of ass	essment	writte	n examination (appr	rox. 60 to 120 minute	es).						
				lf ann	ounced by the lectu	rer at the beginning	of the course, the written exami	ination may be	replaced by an oral examination				
				of one	e candidate each (ap	prox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-				
				date).	age of accessment.	German and/or Eng	lich						
				credit	able for bonus	Serman and of Ling							
	Additio	onal Info	rmation	Focus	es available for stuc	lents of the Master's	programme Informatik (Compu	iter Science, 12	o ECTS credits): IT.				

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 6 / 98

10-I=A-	Selecte	ed Topic	s in IT Se	curity								
KITS-172-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul le	vel	graduate			
	Course	S		V (2) ·	/ (2) + Ü (2)							
				Modu	le taught in: English	1						
	Method	d of ass	essment	writte	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-							
				If ann								
				date)	date).							
				Langu	Language of assessment: English							
				credit	creditable for bonus							
	Additio	onal Info	ormation	Focus ES.	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, S.							
10-I=AKL-	Selecte	ed Topic	s in Aero	space	Engineering							
R-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul le	vel	graduate			
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of ass	essment	writte	n examination (app	rox. 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) of an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)								
				Separate written examination for Master's students.								
				Langu	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.							
10-I=AKT-161-m01	Selecte	ed Topic	s in Theo	ry								
	ECTS	5	Duration	<u>n</u>	1 semester	Method of grading numerical grade	Modul le	vel	graduate			
	Course	S	_	V (2) ·	+ Ü (2)							
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minutes).						
				If ann	ounced by the lectu	irer at the beginning of the course, the w	ritten examination ma	y be r	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-								
				Langu	Language of assessment: German and/or English							
				credit	able for bonus							
	Additio	nal Info	ormation	Focus	es available for stu	dents of the Master's programme Inform	atik (Computer Scienc	e, 120	ECTS credits):			
				AT								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 7 / 98

10-I=AGE-191-m01	Select	ted Topi	Selected Topics of Games Engineering												
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate							
	Cours	es	_	V (2)	+ Ü (2)										
	Metho	od of ass	essment	writte If anr of on date) Langu credit	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). Language of assessment: German and/or English creditable for bonus										
	Additi	ditional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.													
10-I=AK-	Select	ted Topi	cs in Softv	vare E	ngineering										
SE-161-m01	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate								
	Cours	es		V (2)	+ Ü (2)										
	Metho		essment	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											
	Additi	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.										
10-I=LVS-161-m01	Perfor	mance E	valuation	of Dis	tributed Systems										
	ECTS	8	Duratio	<u>n</u>	1 semester	Method of grading numerical grade	Modul level	graduate							
	Cours	es		V (4)	+ Ü (2)										
	Metho	od 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 candi- date). Language of assessment: German and/or English creditable for bonus											
	Additi	onal Info	ormation	Focus AT,IT,	ses available for stu .GE	Idents of the Master's programme Informa	atik (Computer Science, 12	eo ECTS credits):							

10-I=NLP-182-m01	Machine Learn	Iachine Learning for Natural Language Processing										
	ECTS 5	Duratio	1 I	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	_	V (2) +	+ Ü (2)								
	Method of asse	essment	written If anno of one date). Langu credita	ritten 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 f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- ate). anguage of assessment: German and/or English reditable for bonus								
	Additional Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IS, HCI.								
10-I=PEB-182-m01	Performance E	ngineerin	g and I	d Benchmarking of Computer Systems								
	ECTS 5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) + Modu	+ Ü (2) le taught in: Englis	h							
	Method of asse	essment	writter Langu credita	ritten examination (approx. 90 to 120 minutes) anguage of assessment: English reditable for bonus								
10-I=PRAK-161-	Practical cours	e - Currei	nt Topio	Copics in Computer Science								
m01	ECTS 10	Duration	1 I	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (6)									
	Method of asse	essment	term p Langu	paper (5 to 15 pages age of assessment	5) : German and/or Eng	lish						
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE									
10-I=SEM3-161-	Seminar 1 - Current Topics in Computer Science											
m01	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
	Method of asse	essment	term p puter Langu	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English								
	Additional Info	rmation	Focus LR, HC	es available for stu 21´, GE.	dents of the Master's	programme Informatik (Comp	outer Science, 12	o ECTS credits): AT, SE, IT, IS, ES,				
10-I=SEM4-161-	Seminar 2 - Cu	rrent Top	ics in C	Computer Science								
m01	ECTS 5	Duration	1 I	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
	Method of asse	essment	term p Langu	paper (10 to 15 page age of assessment	es) and presentation : German and/or Eng	(30 to 45 minutes) with subse- lish	quent discussior	n on the topic of the seminar				
	Additional Info	rmation	Focus LR, HC	es available for stu CI, GE	dents of the Master's	programme Informatik (Comp	outer Science, 12	o ECTS credits): AT, SE, IT, IS, ES,				
Computer Science (2019)						JMU Würzburg • generated 19-Apr-2	025 • exam. reg. data re	ecord MM 079 - - H 2019 page 9 / 98				

10-l=SSS-172-m01	Security of Software Systems											
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	$(2) + \ddot{U}(2)$							
				Modu	Nodule taught in: English							
	Methoo	d 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 candi- date). Language of assessment: English creditable for bonus								
	Additic	nal Info	ormation	Focus ES. Basic	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES. Basic programming knowledge in C is required.							
10-I=ST-161-m01	Discret	e Event	Simulatio	on								
	ECTS	8	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) -	+ Ü (2)							
	Method of assessment			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								
	Additic	nal Info	ormation	Focus IT,IS,E	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,GE							
10-I=SAR-161-m01	Softwa	re Arch	itecture									
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation	Focus SE,IT,	es available for stud ES	lents of the Master's programme Informat	tik (Computer Science, 12)	o ECTS credits):				
	Referre	d to in l	PO I	§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 10 / 98

Winter Term 2019											
10-I=SAR-161-m01	Softw	are Archi	tecture								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) +	V (2) + Ü (2)						
	Metho	od of ass	essment	writte	n examination (appr	ox. 60 to 120 minute	s).				
				lf ann	f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination						
				or one date)	e candidate each (ap	prox. 20 minutes) or	an oral examination in groups	or 2 candidates	approx. 15 minutes per candi-		
				Langu	age of assessment:	German and/or Engl	ish				
				credit	able for bonus						
	Additi	onal Info	rmation	Focus SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES						
	Referr	ed to in l	PO I	§ 22	Nr. 3 b)						
10-l=3D-161-m01	3D Po	int Cloud	Processi	ng							
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) + Ü (2)							
				Module taught in: English							
	Metho	od of ass	essment	written examination (approx. 60 to 120 minutes).							
				of one	of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-						
				date).	earlandate each (ap						
				Separ	ate written examina	tion for Master's stud	lents.				
				Langu	age of assessment:	German and/or Engl	English				
	۸ d d :+:	analinfa	rmation	Fredit	creditable for bonus						
	Additi		mation	IS,LR,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,LR,HCI,GE						
10-I=AA-152-m01	Advan	ced Auto	mation								
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (4) +	- Ü (2)						
	Metho	od of ass	essment	writte	n examination (appr	ox. 60 to 120 minute	s)				
				credit	able for bonus						
	Method of assessment Additional Information Referred to in LPO I <b>3D Point Cloud Proces</b> ECTS 5 Duration Courses Method of assessment Additional Information ECTS 8 Duration ECTS 8 Duration Advanced Automation ECTS 8 Duration Referred to in LPO I		rmation	Focus IT,IS,E	es available for stud S,LR,GE	lents of the Master's	programme Informatik (Compu	iter Science, 120	ECTS credits):		
	Referr	ed to in l	POI	§ 22	Nr. 3 b)						

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 11 / 98

10-l=AG-161-m01	Computatio	nal Geomet	ry								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	+ Ü (2)							
	Method of a	assessment	writte	n examination (ap	prox. 60 to 120 minute	s).					
			If ann	ounced by the lect	urer at the beginning o	of the course, the written ex	xamination may be	replaced by an oral examination			
			of one	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
			Langu	date). Language of assessment: German and/or English							
			credit	creditable for bonus							
	Additional I	nformation	Focus	es available for stu LGE	udents of the Master's	programme Informatik (Co	mputer Science, 12	o ECTS credits):			
10-l=APA-161-m01	Approximat	ion Algorith	ms	,02							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	+ Ü (2)							
	Method of a	assessment	writte	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								
			date).	e canuluale each (a	approx. 20 minutes) of	all oldi examination ill git	Sups of 2 candidates	s (approx. 15 minutes per canui-			
			Langu	age of assessmen	t: German and/or Engl	ish					
			credit	able for bonus							
	Additional I	Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE						o ECTS credits):			
	Referred to	in LPO I	§ 22	l Nr. 3 b)							
10-I=AKA-161-m01	Selected To	pics in Algo	rithms								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	+ Ü (2)							
	Method of a	assessment	writte	n examination (ap	prox. 60 to 120 minute	s).					
			If ann	ounced by the lect	urer at the beginning o	of the course, the written ex	xamination may be	replaced by an oral examination			
			date).	e canuluale each (a	appiox. 20 minutes) of	an oral examination in gro	Jups of 2 candidates	s (applox. 15 minutes per candi-			
			Langu	age of assessmen	t: German and/or Engl	ish					
			credit	able for bonus							
	Additional I	nformation	Focus	es available for stu	idents of the Master's	programme Informatik (Co	mputer Science, 12	o ECTS credits):			

	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 12 / 98
_			

10-I=A-	Selected Topics in Embedded Systems								
KES-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			V (2)	+ Ü (2)			~	
	Method	ofasse	essment	writte	n examination (app	rox. 60 to 120 minut	es). of the course, the written ever	mination may bo	roplaced by an oral examination
				of on	e candidate each (a	oprox. 20 minutes) o	or an oral examination in group	os of 2 candidates	s (approx. 15 minutes per candi-
				date)	•				
				Langı credit	lage of assessment: able for bonus	German and/or Eng	lish		
	Addition	al Info	rmation	Focus	es available for stud	dents of the Master's	s programme Informatik (Comp	puter Science, 120	p ECTS credits): ES.
10-I=AKH-	Selected	l Topic	s in HCI						
Cl-182-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			V (2)	+ Ü/S (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 or of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minu- date). Language of assessment: German and/or English creditable for bonus								replaced by an oral examination 5 (approx. 15 minutes per candi-	
	Addition	al Info	rmation	Focus	ses available for stud	dents of the Master's	s programme Informatik (Comp	puter Science, 120	o ECTS credits): HCI.
10-I=AKII-182-m01	Selected	l Topic	s in Com	puter S	cience				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			V (2)	+ Ü/S (2)			с. С	
	Method	of asse	essment	writte If ann of on date) Langu credit	n examination (app ounced by the lectu e candidate each (aj uage of assessment: able for bonus	rox. 60 to 120 minut rer at the beginning oprox. 20 minutes) o German and/or Eng	es). of the course, the written exar r an oral examination in group ;lish	mination may be i os of 2 candidates	replaced by an oral examination 5 (approx. 15 minutes per candi-
10-I=AKIS-161-m01	Selected	l Topic	s in Intel	ligent	Systems				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			V (2)	+ Ü (2)				
	Method	of asse	essment	writte If ann of one date) Langu credit	n examination (app ounced by the lectu e candidate each (ap uage of assessment: cable for bonus	rox. 60 to 120 minut rer at the beginning oprox. 20 minutes) o German and/or Eng	es). of the course, the written exar or an oral examination in group clish	mination may be in the second se	replaced by an oral examination 5 (approx. 15 minutes per candi-
	Audition	at IIII0	mation	Focus	es available ioi slu			Julei Science, 120	

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 13 / 98

10-I=AKIT-161-m01	1 Selected Topics in Internet Technologies										
	ECT	S 5	D	uration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses Method of assessment				$V(2) + \ddot{U}(2)$						
	Met	hod of	assess	sment v	writte	n examination (app	rox. 60 to 120 minutes).				
				1	fann	ounced by the lectu	rer at the beginning of the course, the written exam	ination may be i	replaced by an oral examination		
					or one date)	e candidate each (aj	pprox. 20 minutes) or an oral examination in groups	s of 2 candidates	6 (approx. 15 minutes per candi-		
				L	angu	lage of assessment:	: German and/or English				
				C	credit	able for bonus					
	Additional Information				Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.					
10-I=A-	Sel	ected T	opics i	n IT Seci	urity						
KITS-172-mo1	ECT	S 5	D	uration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Cou	irses		١	/ (2) -	+ Ü (2)					
				1	Module taught in: English						
	Met	hod of	assess	sment   v	written examination (approx. 60 to 120 minutes).						
	of					of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-					
				c	date).						
				L	angu	lage of assessment:	: English				
				(	Creditable for Dollus						
	Additional Information				Focuses available for students of the Master's programme informatik (Computer Science, 120 ECIS credits): SE, IS, LR, HCI,						
10-I=AKI -	Sel	ected T	onics in	n Aerosr	nace l	Engineering					
R-161-m01	ECT	S 5	D	Juration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Cou	irses		1	V (2) +	ι + Ü (2)			5		
	Met	hod of	assess	sment v	writte	n examination (app	rox. 60 to 120 minutes).				
				I	fann	ounced by the lectu	rer at the beginning of the course, the written exam	ination may be i	replaced by an oral examination		
				C	ofone	e candidate each (aj	pprox. 20 minutes) or an oral examination in groups	s of 2 candidates	5 (approx. 15 minutes per candi-		
					late). Sonar	ato writton ovamina	ation for Macter's students				
				Ĩ	angu	lage of assessment:	: German and/or English				
					credit	able for bonus					
	Add	litional	Inform	ation F	Focus	es available for stud	dents of the Master's programme Informatik (Comp	uter Science, 120	D ECTS credits): LR.		

Computer Science	(2019)
------------------	--------

10-I=AKT-161-m01	Select										
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	25	_	V (2) -	+ Ü (2)						
	Metho	d of ass	essment	writte If ann of one date). Langu credit	n examination (app ounced by the lectu e candidate each (ap lage of assessment: able for bonus	rox. 60 to 120 minute rer at the beginning o oprox. 20 minutes) or German and/or Engl	es). of the course, the written exami r an oral examination in groups ish	nation may be r of 2 candidates	replaced by an oral examination 5 (approx. 15 minutes per candi-		
	Additio	onal Info	rmation	Focus AT	es available for stud	dents of the Master's	programme Informatik (Compu	ter Science, 120	c ECTS credits):		
10-I=AGE-191-m01	Select	ed Topic	s of Gam	es Engi	ineering						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2) -	V (2) + Ü (2)						
	Method of assessmentwritten examination (approx. 60 to 120 minutes).If announced by the lecturer at the beginning of the course, the written examination may be replaced by a of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 date). Language of assessment: German and/or English creditable for bonus					replaced by an oral examination 5 (approx. 15 minutes per candi-					
	Additio	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.					o ECTS credits): GE.				
10-I=AK-	Select	ed Topic	s in Softv	vare Er	gineering						
SE-161-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	s		V (2) + Ü (2)							
	Metho		essment	writte If ann of one date). Langu credit	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 exar of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pe date). Language of assessment: German and/or English creditable for bonus						
	Additio	matimo	mation	rocus	es available for Stud	Jents of the master s	programme mormatik (Compu	ter Science, 120	J ECTS CIEURSJ: SE.		

10-I=LVS-161-m01	Performance Evaluation of Distributed Systems										
	ECTS	8	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (4) -	+ Ü (2)	•					
	Metho	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	s).				
				lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exami	nation may be r	replaced by an oral examination		
				of one	e candidate each (ap	prox. 20 minutes) or	an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-		
				l angu	Jage of assessment:	German and/or Engl	ish				
				credit	able for bonus						
	Additio	onal Info	rmation	Focus AT,IT,	es available for stud GE	lents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits):		
10-I=NLP-182-m01	Machi	ne Learn	ing for Na	atural I	anguage Processin	g					
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (2) -	+ Ü (2)			-	•		
	Metho	d of ass	essment	writte	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							
				or one date)	e candidate each (ap	prox. 20 minutes) or	an oral examination in groups	of 2 candidates	G (approx. 15 minutes per candi-		
				Langu	lage of assessment:	German and/or Engl	ish				
				credit	able for bonus	, 0					
	Additio	onal Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): AT, IS, HCI.		
10-I=PEB-182-m01	Perfor	mance E	ngineerin	g and	Benchmarking of Co	mputer Systems					
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (2) -	V(2) + U(2)						
				Modu	Module taught in: English						
	Metho	d of ass	essment	written examination (approx. 90 to 120 minutes)							
				Langu	lage of assessment:	of assessment: English					
10-1-PRAK-161-	Practic	al cours		t Toni	cs in Computer Scie						
mo1	FCTS	10	Duration		1 comostor	Method of grading	(not) successfully completed	Modullevel	graduate		
	Course		Duration	Г Р (6)	1 Semester	Method of grading	(not) successibility completed	Modulievei	graduate		
	Motho		ocemont	r (0)	apor (r to 1r pagor)						
	Metho	u 01 assi	essment	Langu	lage of assessment:	, German and/or Engl	ish				
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 16 / 98

10-I=SEM3-161-	Seminar 1 - Current Topics in Computer Science										
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	•	S (2)	·	•						
	Method of	assessment	term	paper (10 to 15 page	s) and presentation (	30 to 45 minutes) with sub	sequent discussior	on a topic from the field of com-			
			puter	science	Cormon and lor Engl	ich					
	Additional	Information	Eacure	anguage of assessment: German and/or English							
	LR, HCI <sup>°</sup> , GE.							0 ECT3 (Teult3). A1, 3E, 11, 13, E3,			
10-I=SEM4-161-	Seminar 2	- Current To	pics in (	s in Computer Science							
mo1	ECTS 5	Duratio	on	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2)	-							
	Method of	assessment	term Langi	paper (10 to 15 page lage of assessment:	s) and presentation ( German and/or Engl	30 to 45 minutes) with sub ish	sequent discussior	n on the topic of the seminar			
	Additional	Information	Focus LR, H	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE							
10-I=SSS-172-m01	Security of	Software Sy	/stems								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	•	V (2)	V (2) + Ü (2)							
			Modu	Module taught in: English							
	Method of	assessment	writte	en examination (app	rox. 60 to 120 minute	es).					
			of on	of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-							
			date)	date).							
			Lang	Language of assessment: English							
			credi	Creditable for bonus							
	Additional	Information	Focus	Focuses available for students of the Master's programme informatik (Computer Science, 120 ECIS credits): SE, IS, LR, HCI,							
			Basic	Basic programming knowledge in C is required.							
10-l=ST-161-m01	Discrete Ev	ent Simulat	ion	<u> </u>							
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4)	+ Ü (2)	•		•				
	Method of	assessment	writte	en examination (app	rox. 60 to 120 minute	es).					
			lf anr	If announced by the lecturer at the beginning of the course, the written examination may be 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)							
			Langi	Language of assessment: German and/or English							
			credi	table for bonus	_						
	Additional	Information	Focus IT,IS,	ses available for stud ES,GE	lents of the Master's	programme Informatik (Co	mputer Science, 12	o ECTS credits):			

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 17 / 98

Summer Term 2020	)											
10-I=SAR-161-m01	Softw	are Archi	itecture									
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (2) + Ü (2)								
	Metho	od 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								
				date).	date).							
				Langu	Language of assessment: German and/or English							
				credit	able for bonus							
	Additi	onal Info	rmation	Focus SE,IT,	es available for stud ES	lents of the Master's	programme Informatik (Compu	iter Science, 120	ECTS credits):			
	Referr	ed to in l	PO I	§ 22	Nr. 3 b)							
10-l=3D-161-m01	3D Po	int Cloud	l Processi	ng	Ig							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			$V(2) + \ddot{U}(2)$								
				Module taught in: English								
	Method of assessment			Written examination (approx. 60 to 120 minutes).								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).								
				Separate written examination for Master's students.								
				creditable for bonus								
	Additi	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
				IS,LR,HCI,GE								
10-I=AA-152-m01	Advan	ced Auto	mation									
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) +	- Ü (2)							
	Method of assessment			writte	n examination (appr	ox. 60 to 120 minute	s)					
				credit	able for bonus							
	Additional Information			Focus IT,IS,E	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE							
	Referr	ed to in l	PO I	§ 22	Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 18 / 98

10-l=AG-161-m01	01 Computational Geometry										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	/ (2) + Ü (2)							
	Method of a	assessment	writte	n examination (ap	prox. 60 to 120 minute	s).					
			If ann	ounced by the lect	urer at the beginning o	of the course, the written ex	xamination may be	replaced by an oral examination			
			of one	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
			Langu	Language of assessment: German and/or English							
			creditable for bonus								
	Additional I	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
10-l=APA-161-m01	Approximat	ion Algorith	ms	,02							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	+ Ü (2)							
	Method of a	assessment	writte	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, approx, approx) or an oral examination in groups of a candidates (approx, approx, approx) or an oral examination in groups of a candidates (approx, approx) or an oral examination in groups of a candidates (approx, approx) or an oral examination in groups of a candidates (approx) or an oral examination in groups of a candida								
			date).								
			Langu	Language of assessment: German and/or English							
			credit	creditable for bonus							
	Additional I	nformation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
	Referred to	in LPO I	§ 22 II Nr. 3 b)								
10-I=AKA-161-m01	Selected Topics in Algorithms										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	+ Ü (2)							
	Method of a	assessment	writte	n examination (ap	prox. 60 to 120 minute	s).					
			If ann	ounced by the lect	urer at the beginning o	of the course, the written ex	xamination 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								
			credit	able for bonus							
	Additional I	nformation	Focus	es available for stu	idents of the Master's	programme Informatik (Co	mputer Science, 12	o ECTS credits):			

_			
	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 19 / 98
_			

10-I=A-	Selected Topics in Embedded Systems										
KES-161-m01	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)	<u>.</u>		2				
	Method of a	ssessment	writte	n examination (app	rox. 60 to 120 minute	es).					
			lf ann	ounced by the lectu	rer at the beginning of	of the course, the written exam	ination may be r	replaced by an oral examination			
			or on date)	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							
			Langi								
			creditable for bonus								
	Additional In	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
10-I=AKH-	Selected To	pics in HCI									
Cl-182-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) ·	+ Ü/S (2)							
	Method of a	ssessment	writte	n examination (60 t	o 120 minutes)						
			If ann	ounced by the lectu	rer at the beginning (	of the course, the written exam	ination may be i	replaced by an oral examination			
			date)	e canuluale each (af	opiox. 20 minutes) of	an oral examination in groups		approx. 15 minutes per candi-			
			Langi	Language of assessment: German and/or English							
			credit	able for bonus							
	Additional In	nformation	Focus	es available for stud	dents of the Master's	programme Informatik (Compu	uter Science, 120	o ECTS credits): HCI.			
10-I=AKII-182-m01	no1 Selected Topics in Computer Science										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + Ü/S (2)								
	Method of a	ssessment	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								
			date)	date).							
			Langu	Language of assessment: German and/or English							
			credit	able for bonus							
10-I=AKIS-161-m01	Selected To	pics in Intel	ligent	ligent Systems							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) ·	+ Ü (2)							
	Method of a	ssessment	writte	n examination (app	rox. 60 to 120 minute	es).					
			lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
			date)	or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).							
			Langu	Language of assessment: German and/or English							
			credit	able for bonus							
	Additional In	nformation	Focus	es available for stud	dents of the Master's	programme Informatik (Compu	uter Science, 120	o ECTS credits): IS.			

Computer Science (2019) JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019 page 20 / 9			
	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 20 / 98

10-I=AKIT-161-m01	Selected Topics in Internet Technologies										
	ECTS 5 Duration			uration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Cou	irses		١	/ (2) +	+ Ü (2)		·			
	Met	hod of	assess	sment v	writte	n examination (app	rox. 60 to 120 minutes).				
				1	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						
				L							
				C	credit	able for bonus					
	Additional Information				Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.					
10-I=A-	Selected Topics in IT Security										
KITS-172-mo1	ECT	S 5	D	uration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				/ (2) -	+ Ü (2)					
				1	Module taught in: English						
	Met	hod of	assess	sment   v	writte f ann	n examination (app	rox. 60 to 120 minutes).	ination 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-						
				c	date).						
				L	Language of assessment: English						
				(	Creurable for Dorius						
	Add	litional	Inform	ation   F	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECIS credits): SE, IS, LR, HCI,						
10-I=AKI -	E.J. Selected Tonics in Aerospace Engineering										
R-161-m01	ECT	S 5	D	Juration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Cou	irses		1	V (2) +	ι + Ü (2)			5		
	Met	hod of	assess	sment v	writte	n examination (app	rox. 60 to 120 minutes).				
				I	fann	ounced by the lectu	rer at the beginning of the course, the written exam	ination may be i	replaced by an oral examination		
				C	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
					date). Separate written examination for Master's students						
				Ĩ	Separate written examination for Master's students.						
					credit	able for bonus					
	Add	litional	Inform	ation F	Focus	es available for stud	dents of the Master's programme Informatik (Comp	uter Science, 120	D ECTS credits): LR.		

Computer Science	(2019)
------------------	--------

10-I=AKT-161-m01	Selected Topics in Theory										
	ECTS 5 Duration			ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	:S		V (2) -	+ Ü (2)			·			
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT										
10-I=AGE-191-m01	Select	ed Topic	s of Gam	es Engi	ineering						
	ECTS 5 Duratio			ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		V (2) -	√ (2) + Ü (2)						
	Method of assessment			writte If ann of one date). Langu credit	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). Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.							
10-I=AK-	Select	ed Topic	s in Softv	vare Engineering							
SE-161-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Ü (2)							
	Metho	d of asso	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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECIS credits): SE.		

10-I=LVS-161-m01	Performance Evaluation of Distributed Systems										
	ECTS 8 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (4) -	/ (4) + Ü (2)						
	Metho	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	s).				
				lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exami	nation may be r	replaced by an oral examination		
				of one	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				l angu	Language of assessment: German and/or English						
				creditable for bonus							
	Additional Information			Focus AT,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE						
10-I=NLP-182-m01	Machi	ne Learn	ing for Na	atural I	tural Language Processing						
	ECTS 5 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) -	+ Ü (2)			-	•		
	Method of assessment			writte	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							
				date).							
				Language of assessment: German and/or English							
				creditable for bonus							
	Additio	onal Info	rmation	Focus	es available for stud	lents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): AT, IS, HCI.		
10-I=PEB-182-m01	Perfor	mance E	ngineerin	g and Benchmarking of Computer Systems							
	ECTS 5 Duration		า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) + Ü (2)							
				Module taught in: English							
	Metho	d of ass	essment	written examination (approx. 90 to 120 minutes)							
				Language of assessment: English							
10-1-PRAK-161-	Practical courses - Current Topics in Computer Science										
mo1	FCTS	10	Duration		1 comostor	Method of grading	(not) successfully completed	Modullevel	graduate		
	Course		Duration	Г Р (6)	1 Semester	Method of grading	(not) successibility completed	Modulievei	graduate		
	Courses			r (0)							
	Metho	u 01 assi	essment	Langu	lage of assessment:	, German and/or Engl	ish				
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR. HCI, GE							

Computer Science (2019)	IMU Würzburg • generated 19-Apr-2025 • exam, reg. data record MMlozol-I-IHI2019	page 23 / 98
		page 237 30

10-I=SEM3-161-	Seminar 1	- Curre	ent Topi	cs in C	omputer Science			1		
m01	ECTS 5		Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (2)	~	·				
	Method of	fasses	sment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English						
	Additiona	l Inforn	nation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI´, GE.						
10-I=SEM4-161-	Seminar 2	2 - Curr	ent Topi	cs in Computer Science						
m01	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (2)						
	Method of	fasses	sment	term p Langu	erm paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English					
	Additiona	l Inforn	nation	Focus LR, HO	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, R, HCI, GE					
10-l=SSS-172-m01	Security o	of Softv	ware Sys	tems						
	ECTS 5		Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (2) + Ü (2) Module taught in: English						
	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 candi- date). Language of assessment: English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES.						
10-l=ST-161-m01	Discrete E	vent S	imulatio	n						
	ECTS 8		Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	ļ	ſ	V (4) -	ı + Ü (2)				10	
	Method of	fasses	sment	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). Language of assessment: German and/or English creditable for bonus						
	Additiona	l Inforn	nation	Focus IT,IS,E	es available for stuc S,GE	lents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits):	

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 24 / 98

Winter Term 2020										
10-l=3D-161-m01	3D Po	int Cloud	Processi	ng						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (2) +	+ Ü (2)					
				Modu	Module taught in: English					
	Metho	od of asse	essment	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). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,LR,HCI,GE						
10-I=AA-152-m01	Advan	ced Auto	mation							
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (4) +	+ Ü (2)					
	Method of assessment			written examination (approx. 60 to 120 minutes) creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE						
	Referr	ed to in L	PO I	§ 22    Nr. 3 b)						
10-I=AG-161-m01	Comp	utational	Geometi	у						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (2) + Ü (2)						
	Metho	od of asse	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 candi- date). Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	rmation	Focus AT,HC	es available for stuc I,GE	lents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits):	

10-I=APA-161-m01	Approximation Algorithms										
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		V (2) -	+ Ü (2)	· ·					
	Metho	d of ass	essment	writte	written examination (approx. 60 to 120 minutes).						
				lf ann	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-							
				l angi	anguage of assessment: German and/or English						
				credit	creditable for bonus						
	Additio	onal Info	rmation	Focus AT,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT.IT.GE						
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)						
10-I=AKA-161-m01	Select	ed Topic	s in Algo	rithms							
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		V (2) -	+ Ü (2)						
	Method of assessment			writte If ann of one date). Langu credit	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). Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT							
10-I=A-	Select	ed Topic	s in Embe	edded S	Systems						
KES-161-m01	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		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 candi- date).							
	A -1 -1:-:			Language of assessment: German and/or English creditable for bonus							
	Additio	onal info	rmation	Focus	es available for stu	dents of the Master's programme informatik (Com	iputer Science, 120	D ECTS Credits): ES.			

10-I=AKH-	Selecte	Selected Topics in HCI											
Cl-182-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) +	+ Ü/S (2)								
	Method	d of ass	essment	writte	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, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidates (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination in groups of a candidate (approx, ac minutes) or an oral examination (approx, ac minutes) or an oral exa									
				date).	date).								
				Langu	age of assessment:	German and/or Eng	lish						
				credit	creditable for bonus								
	Additio	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
10-I=AKII-182-m01	Selecte	ed Topic	s in Com	outer S	cience			1					
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) +	(2) + U/S (2)								
	Method	d of ass	essment	Writte	n examination (appi	rox. 60 to 120 minute rer at the beginning	es). of the course, the written exam	ination may be	replaced by an oral examination				
				ofone	e candidate each (ar	oprox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-				
				date).	date).								
				Langu	creditable for bonus								
10-1=AKIS-161-m01	Selecte	d Tonic	s in Intol	ligent 9									
	ECTS 5 Duratio		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) +	- Ü (2)				0				
	Method	d of ass	essment	writte	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-									
				Langu	Language of assessment: German and/or English								
				creditable for bonus									
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS.									
10-I=AKIT-161-m01	Selecte	ed Topic	s in Inter	net Tec	hnologies	-							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	-	V (2) +	+ Ü (2)								
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	es).						
				of one	e candidate each (ar	prox. 20 minutes) o	of the course, the written exam r an oral examination in groups	of 2 candidates	s (approx, 15 minutes per candi-				
				date).									
				Langu	age of assessment:	German and/or Eng	lish						
	م ا ما <del>ا</del> به : -	n al luf-		credit	able for bonus			uton Colonada i i					
	Additio	nai Info	imation	Focus	es available for stud	ients of the Master's	programme informatik (Compl	iter Science, 12	o ECIS credits): II.				

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 27 / 98

10-I=A-	Selected Topics in IT Security											
KITS-172-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	+ Ü (2)	· · · · · · · · · · · · · · · · · · ·		•				
				Modu	Module taught in: English							
	Method	d of ass	essment	written examination (approx. 60 to 120 minutes).								
				If ann	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).								
				Langu	_anguage of assessment: English							
				credit	creditable for bonus							
	Additio	nal Info	rmation	Focus ES.	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES.							
10-I=AKL-	Selecte	ed Topic	s in Aero	space	Engineering							
R-161-m01	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	-	V (2) ·	+ Ü (2)	· · ·		·				
	Method	d of asse	essment	writte	n examination (app	rox. 60 to 120 minute	5).					
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				Separate written examination for Master's students.								
				Langu	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
10-I=AKT-161-m01	Selecte	ed Topic	s in Theo	ry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) ·	+ Ü (2)							
	Method	d of asso	essment	writte	n examination (app	rox. 60 to 120 minute	5).					
				lf ann	ounced by the lectu	irer at the beginning c	f the course, the writte	n examination may be r	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-								
				Langu	Language of assessment: German and/or English							
				credit	able for bonus	,	-					
	Additio	nal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits):			
				AT								

10-I=AGE-191-m01	Select	Selected Topics of Games Engineering											
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es	_	V (2)	+ Ü (2)								
	Metho	od 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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additi	dditional Information   Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.											
10-I=AK-	Select	ted Topi	cs in Softv	vare E	ngineering								
SE-161-m01	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate						
	Cours	es		V (2)	+ Ü (2)								
	Metho		essment	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									
	Additi	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.								
10-I=LVS-161-m01	Performance Evaluation of Distributed Systems												
	ECTS	8	Duration	<u>n</u>	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		V (4)	V (4) + Ü (2)								
	Metho	od 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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additi	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE									

10-I=NLP-182-m01	Machine Learn	Nachine Learning for Natural Language Processing										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) +	+ Ü (2)	·		2					
	Method of asse	essment	writte If ann of one date). Langu credit	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). Language of assessment: German and/or English creditable for bonus								
	Additional Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, IS, HCI.								
10-I=PEB-182-m01	Performance Engineering and Benchmarking of Computer Systems											
	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) + Modu	/ (2) + Ü (2) Aodule taught in: English								
	Method of asse	essment	writte Langu credit	ritten examination (approx. 90 to 120 minutes) anguage of assessment: English reditable for bonus								
10-I=PRAK-161-	Practical cours	e - Currei	nt Topi	cs in Computer Sci	ence							
m01	ECTS 10 Duratio		n	1 semester	Method of grading	(not) successfully completed	d Modul level	graduate				
	Courses		P (6)									
	Method of asse	essment	term p Langu	baper (5 to 15 pages lage of assessment	s) :: German and/or Eng	lish						
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE									
10-I=SEM3-161-	Seminar 1 - Current Topics in Computer Science											
m01	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
	Method of asse	essment	term p puter Langu	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English								
	Additional Info	rmation	Focus LR, HC	es available for stu Cl´, GE.	dents of the Master's	programme Informatik (Comp	outer Science, 12	o ECTS credits): AT, SE, IT, IS, ES,				
10-I=SEM4-161-	Seminar 2 - Cu	rrent Top	ics in C	Computer Science								
m01	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
	Method of asse	essment	term p Langu	oaper (10 to 15 page lage of assessment	es) and presentation : German and/or Eng	(30 to 45 minutes) with subse lish	quent discussior	n on the topic of the seminar				
	Additional Info	rmation	Focus LR, HC	es available for stu CI, GE	dents of the Master's	programme Informatik (Comp	outer Science, 12	o ECTS credits): AT, SE, IT, IS, ES,				
Computer Science (2019)						JMU Würzburg • generated 19-Apr-2	2025 • exam. reg. data r	ecord MM 079 - - H 2019 page 30 / 98				

10-l=SSS-172-m01	Security of Software Systems										
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) ·	- + Ü (2)	·	•				
				Modu	Module taught in: English						
	Methoo	d of ass	essment	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: English creditable for bonus							
	Additic	nal Info	ormation	Focus ES. Basic	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES. Basic programming knowledge in C is required.						
10-l=ST-161-m01	Discret	e Event	Simulatio	on	n						
	ECTS	8	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (4) -	$(4) + \ddot{U}(2)$						
	Method of assessment			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							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,GE							
10-I=SAR-161-m01	Software Architecture										
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation	Focus SE,IT,	es available for stud ES	lents of the Master's programme Informat	tik (Computer Science, 12)	o ECTS credits):			
	Referre	d to in l	PO I	§ 22	l Nr. 3 b)						

Computer Science (2019)	MU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 31 / 98
		1.000

Summer Term 2021	er Term 2021											
10-l=3D-161-m01	3D Poi	nt Cloud	Processi	ng								
	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	+ Ü (2)							
				Module taught in: English								
	Metho	d of asse	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 candi- date). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,LR,HCI,GE								
10-I=AA-152-m01	Advan	ced Auto	mation									
	ECTS	8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (4) + Ü (2)								
	Metho	d of asse	essment	written examination (approx. 60 to 120 minutes) creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE								
	Referre	ed to in L	PO I	§ 22    Nr. 3 b)								
10-I=AG-161-m01	Compu	utational	Geometi	у								
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) + Ü (2)								
	Metho	d of asse	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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,HCI,GE								

10-I=APA-161-m01	Approximation Algorithms										
	ECTS 5 Duration		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	•	V (2) -	+ Ü (2)	·					
	Method	d of ass	essment	writte	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). Language of assessment: German and/or English							
				creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE							
	Referre	d to in l	POI	§ 22	l Nr. 3 b)						
10-I=AKA-161-m01	Selecte	ed Topic	s in Algo	rithms	hms						
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	s		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 candi- date). Language of assessment: German and/or English							
				creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT							
10-I=A-	Selected Topics in Embedded Systems										
KES-161-m01	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		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 candi-							
				date). Language of assessment: German and/or English creditable for bonus							
	Additio	nal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							

10-I=AKH-	Selected Topics in HCI											
Cl-182-m01	ECTS 5 Duratio		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) + Ü/S (2)								
	Metho	d of ass	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								
				date). Language of assessment: German and/or English								
			-	creditable for bonus								
	Additic	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.							
10-I=AKII-182-m01	Selecte	ed Topic	s in Com	puter S	cience							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	+ U/S (2)				_			
	Metho	d of asso	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 candi-								
				date).								
				Language of assessment: German and/or English								
	creditable for bonus											
10-I=AKIS-161-m01	Selected Topics in Intel			Ilgeni Systems								
	ECIS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V(2) + U(2)								
	Method	d of asso	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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additic	nal Info	rmation	Focus	able for bollus	lents of the Master's	programme Informatik (Comp	iter Science 12	D ECTS credits). IS			
10-I=AKIT-161-m01	Selecte	ed Topic	s in Inter	net Tec	hnologies							
	FCTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (2) +	+ Ü (2)				3			
	Metho	d of ass	essment	written examination (approx. 60 to 120 minutes).								
				lf ann	ounced by the lectu	rer at the beginning	of the course, the written exam	ination may be	replaced by an oral examination			
				of one	e candidate each (ap	prox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-			
				date).	age of assessment.	German and/or Eng	lich					
				credit	able for bonus	Serman and of Ling						
	Additic	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 34 / 98

10-I=A-	Selected Topics in IT Security										
KITS-172-m01	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	-	V (2) + Ü (2) Module taught in: English							
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	5).				
				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: English creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES.							
10-I=AKL-	Selecte	ed Topic	s in Aero	space	Engineering						
R-161-m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	-	V (2) ·	+ Ü (2)	· · ·		·			
	Method	d of asse	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 candi-							
				Separate written examination for Master's students.							
				Language of assessment: German and/or English							
				creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.							
10-I=AKT-161-m01	Selected Topics in Theory										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		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 candi-							
				Language of assessment: German and/or English							
				credit	able for bonus	,	-				
	Additional Information			Focus	es available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits):		
				AT							

10-I=AGE-191-m01	Selected Topics of Games Engineering												
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		V (2)	+ Ü (2)								
	Metho	od of ass	sessment	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). Language of assessment: German and/or English creditable for bonus									
	Addit	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.											
10-I=AK-	Selec	ted Topi	cs in Softv	vare E	ngineering								
SE-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		V (2)	+ Ü (2)								
	metro		essment	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									
	Addit	ional Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.									
10-I=LVS-161-m01	Performance Evaluation of Distributed Systems												
	ECTS	8	Duratio	<u>n</u>	1 semester	Method of grading numerical grade	Modul level	graduate					
	Cours	es		V (4) + Ü (2)									
	Metho	od of ass	sessment	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). Language of assessment: German and/or English creditable for bonus									
	Addit	ional Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE									
10-I=NLP-182-m01	Machine Learn	Nachine Learning for Natural Language Processing											
-------------------------	------------------------	--	--	--	---	---------------------------------------	--------------------------	--------------------------------------	--	--	--	--	
	ECTS 5	Duration	ן 1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (2) +	Ü (2)	•		•						
	Method of asso	essment	written If annou of one o date). Langua credital	ritten 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 f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- ate). anguage of assessment: German and/or English reditable for bonus									
	Additional Info	rmation	Focuse	es available for stu	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): AT, IS, HCI.					
10-I=PEB-182-m01	Performance E	ngineerin	g and B	enchmarking of Co	omputer Systems								
	ECTS 5	Duration	ן 1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		V (2) + Module	Ü (2) e taught in: Englisł	1								
	Method of ass	essment	written Langua credital	examination (app age of assessment ble for bonus	rox. 90 to 120 minute : English	es)							
10-I=PRAK-161-	Practical cours	se - Currei	nt Topics	s in Computer Scie	ence								
m01	ECTS 10 Duration		1 1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses		P (6)										
	Method of asso	essment	term pa Langua	aper (5 to 15 pages age of assessment	;) : German and/or Eng	ish							
	Additional Information		Focuse LR, HCI	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, IS, ES, LR, HCI, GE									
10-I=SEM3-161-	Seminar 1 - Cu	rrent Topi	cs in Computer Science										
m01	ECTS 5	Duration	ן 1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		S (2)										
	Method of ass	essment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English										
	Additional Info	ormation	Focuses LR, HCI	es available for stu I1, GE.	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): AT, SE, IT, IS, ES,					
10-I=SEM4-161-	Seminar 2 - Cu	rrent Top	ics in Co	omputer Science									
m01	ECTS 5	Duration	ו 1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	_	S (2)										
	Method of asso	essment	term pa Langua	aper (10 to 15 page age of assessment	es) and presentation ( : German and/or Eng	30 to 45 minutes) with subseq lish	uent discussior	n on the topic of the seminar					
	Additional Info	ormation	Focuses LR, HCI	es available for stu I, GE	dents of the Master's	programme Informatik (Comp	uter Science, 12	o ECTS credits): AT, SE, IT, IS, ES,					
Computer Science (2019)						JMU Würzburg • generated 19-Apr-20	o25 • exam. reg. data re	ecord MM 079 - - H 2019 page 37 / 98					

10-l=SSS-172-m01	Security of Software Systems											
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	$V(2) + \ddot{U}(2)$							
				Modu	Module taught in: English							
	Methoo	d of ass	essment	writte 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: English creditable for bonus							
	Additic	nal Info	ormation	Focus ES. Basic	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, IS, LR, HCI, ES. Basic programming knowledge in C is required.							
10-I=ST-161-m01	Discret	e Event	Simulatio	on								
	ECTS	8	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (4) -	(4) + Ü (2)							
	Method of assessment			writte If ann of one date). Langu credit	f 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). _anguage of assessment: German and/or English creditable for bonus							
	Additional Information			Focus IT,IS,E	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,GE							
10-I=SAR-161-m01	Softwa	re Arch	itecture									
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	+ Ü (2)							
	Method of assessment			writte If ann of one date). Langu credit	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). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation	Focus SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES							
	Referre	d to in l	PO I	§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 38 / 98

Winter Term 2021	2021										
10-l=3D-212-m01	3D Po	int Cloud	Processi	ng							
	ECTS	5	Duratio	1 I	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		V (2) +	V (2) + Ü (2)						
				Modu	Aodule taught in: English						
	Metho	od of asse	essment	writte	written examination (approx. 60 to 120 minutes).						
				of one	It 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, at minutes) or an oral examination in groups of a candidates (approx, at minutes) per candi-						
				date).	date). .anguage of assessment: German and/or English						
				Langu							
				Separ	ate written examina able for bonus	tion for Master's students					
	Additi	onal Info	rmation	Focus	es available for stur	lents of the Master's programme Informatik (Compu	ter Science 120	FCTS credits): KLLR HCLGE			
10-I=AA-152-m01	Advan	ced Auto	mation	Tocus							
	ECTS	8	Duration	ı	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				· Ü (2)			0			
	Metho	d of asse	essment	writte	n examination (appi	rox. 60 to 120 minutes)					
				credit	able for bonus						
	Additi	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE							
	Referr	ed to in L	PO I	§ 22 II Nr. 3 b)							
10-I=AG-161-m01	Comp	utational	Geometr	ry							
	ECTS	5	Duration	1 I	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		V (2) +	- Ü (2)						
	Metho	od of asse	essment	writte	n examination (appi	rox. 60 to 120 minutes).					
				If ann	ounced by the lectu	rer at the beginning of the course, the written examination in groups	nation may be i	eplaced by an oral examination			
				date).		prox. 20 minutes) of an oral examination in groups		approx. 15 minutes per candi-			
				Langu	age of assessment:	German and/or English					
				credit	able for bonus						
	Additi	onal Info	rmation	Focus AT,HC	es available for stuc I,GE	dents of the Master's programme Informatik (Compu	iter Science, 120	ECTS credits):			

10-I=APA-161-m01	Appro	ximation	Algorith	ms							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	es	•	V (2) -	/ (2) + Ü (2)						
	Metho	od of ass	essment	writte	written examination (approx. 60 to 120 minutes).						
				lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination						
				of one	If one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				l angi	Jale). Anguage of assessment: German and/or English						
				credit	creditable for bonus						
	Additi	onal Info	ormation	Focus AT,IT,	es available for stu GE	dents of the Master's programme Informatik (Com	puter Science, 120	ECTS credits):			
	Referr	ed to in l	POI	§ 22	22 ll Nr. 3 b)						
10-I=AKA-161-m01	Selec	ted Topic	s in Algo	rithms							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	es		V (2) -	+ Ü (2)						
	Metho	od 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 candidates (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)							
				Langu	Language of assessment: German and/or English						
				creditable for bonus							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
				AT							
10-I=A-	Selec	ted Topic	s in Embe	edded S	Systems						
KES-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Cours	es		V (2) -	+ Ü (2)						
	Metho	od of ass	essment	writte	n examination (app	rox. 60 to 120 minutes).					
				If ann	ounced by the lectu	irer at the beginning of the course, the written exa	mination may be	replaced by an oral examination			
				date)	e canuluale each (a	pplox. 20 minutes) of an oral examination in group	ps of 2 canuluates	applox. 15 minutes per canul-			
				Langu	lage of assessment:	: German and/or English					
				credit	able for bonus	-					
	Additi	onal Info	ormation	Focus	es available for stu	dents of the Master's programme Informatik (Com	puter Science, 120	o ECTS credits): ES.			

10-I=AKH-	Selecte	ed Topic	s in HCI									
Cl-182-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	/ (2) + Ü/S (2)							
	Metho	d of ass	essment	writte	written examination (60 to 120 minutes)							
				It announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				date).	date).							
				Langu	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additic	onal Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.							
10-I=AKII-182-m01	Selecte	ed Topic	s in Com	puter S	cience							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	<i>.</i>	V (2) +	+ U/S (2)							
	Metho	d of asso	essment	writte	n examination (appr	ox. 60 to 120 minute	es).	ination may be	rankaged by an oral examination			
				of one	e candidate each (ac	prox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx, 15 minutes per candi-			
				date).	date).							
				Langu	anguage of assessment: German and/or English							
	Calast			credit	able for bonus							
10-I=AKIS-212-m01	Selecte	ed lopic	s in Intel	ligent s	Systems		la compania e la compañía		Laws durate			
	ECIS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	+ U (2)							
	Method	d of asso	essment	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).	date).							
				Langu	age of assessment:	German and/or Eng	lish					
	Additic	nal Info	rmation	Focus	Lieurable for burlius							
10-I=AKIT-161-m01	Selecte	ed Topic	s in Inter	net Technologies								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) +	+ Ü (2)				0			
	Metho	d of ass	essment	writte	n examination (appr	rox. 60 to 120 minute	es).					
				lf ann	ounced by the lectu	rer at the beginning	of the course, the written exam	ination may be	replaced by an oral examination			
				of one	e candidate each (ap	prox. 20 minutes) o	r an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-			
				date).	age of assessment.	German and/or Eng	lich					
				credit	able for bonus	Serman and of Eng						
	Additic	onal Info	rmation	Focus	es available for stuc	lents of the Master's	programme Informatik (Compu	iter Science, 12	o ECTS credits): IT.			

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 41 / 98

10-I=A-	Selecte	ed Topic	s in IT Se	curity	urity							
KITS-212-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (2) ·	$V(2) + \ddot{U}(2)$							
				Modu	Module taught in: English							
	Method	d of ass	essment	writte	vritten examination (approx. 60 to 120 minutes)							
				If ann	It announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidates (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination in groups of a condidate (approx, as minutes) or an oral examination or an oral examination in groups of a condition or an oral examination							
				date).	a one candidate each (approx. 20 minutes) of an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late).							
				Langu	anguage of assessment: English							
				credit	creditable for bonus							
	Additio	onal Info	rmation	Focus ES, SI	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI, ES, SEC							
10-I=AKL-	Selecte	ed Topic	s in Aero	space	Engineering							
R-161-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	_	V (2) ·	(2) + Ü (2)							
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	5).					
				lf ann	It 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, approx, approx) or an oral examination in groups of a candidates (approx, approx, approx, approx) of a candidate each (approx, approx) of a candidate each (approx) of a candidate e							
				or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)								
				Separate written examination for Master's students.								
				Langu	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
10-I=AKT-161-m01	Selecte	ed Topic	s in Theo	ry								
	ECTS	5	Duration	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	_	V (2) ·	+ Ü (2)							
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	5).					
				If ann	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-								
				Langu	age of assessment:	: German and/or Engli	sh					
				credit	able for bonus							
	Additio	onal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits):			
				AT								

10-I=AGE-191-m01	Select	ed Topio	s of Gam	es Eng	ineering						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate		
	Course	es		V (2) ·	+ Ü (2)						
	Metho	d of ass	essment	writte If ann of on date) Langu credit	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). Language of assessment: German and/or English creditable for bonus						
	Additi	onal Info	ormation	Focus	ses available for stu	dents of the Master's programme In	ıformatik (Compu	ter Science, 120	o ECTS credits): GE.		
10-I=AK-	Select	ed Topio	s in Softv	vare Ei	ngineering						
SE-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical gra	ade	Modul level	graduate		
	Course	es		V (2) ·	(2) + Ü (2)						
	Metho		essment	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							
	Additi	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.						
10-I=LVS-161-m01	Perfor	mance E	valuation	of Distributed Systems							
	ECTS	8	Duration	<u>n</u>	1 semester	Method of grading numerical gra	ade	Modul level	graduate		
	Course	es		V (4) + Ü (2)							
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additi	onal Info	ormation	Focus AT,IT,	ses available for stu GE	dents of the Master's programme In	ıformatik (Compu	ter Science, 120	o ECTS credits):		

10-I=NLP-212-m01	Machine Le	arning for N	atural	itural Language Processing						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)	<u>.</u>		<u>^</u>			
	Method of a	assessment	writte	en examination (app	rox. 60 to 120 minute	es)				
			lfanr	ounced by the lectu	rer at the beginning	of the course, the written exami	nation may be i	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 candi- date)						
			Langi	Language of assessment: German and/or English						
			credi	creditable for bonus						
	Additional I	nformation	Focus	ses available for stud	dents of the Master's	programme Informatik (Compu	iter Science, 120	o ECTS credits): AT,KI,HCI		
	Referred to	in LPO I	§ 22	ll Nr. 3 b)						
10-I=PEB-182-m01	Performanc	e Engineerir	ng and	Benchmarking of Co	omputer Systems					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+Ü(2)						
	Matha da fa		Modu	ile taught in: English	1	)				
	method of a	assessment	lang	nguage of assessment: English						
			credit	creditable for bonus						
10-I=PRAK-212-	Practical Co	ourse - Curre	nt Top	ics in Computer Scie	ence					
m01	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	,	P (6)			·	*			
			Modu	Nodule taught in: German and English The source is offered in parallel in both Corman and English						
	Mothod of a	accoccmont	term paper (r to 15 pages)							
	Method of a	1556551116111	Language of assessment: German and/or English							
	Additional I	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES,						
			LR, H	CI, GE						
10-I=SEM3-212-	Seminar 1 -	Current Top	ics in (	Computer Science						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2)							
			Modu The c	ile taught in: Germai	n and English arallel in both Germa	un and English				
	Method of a	assessment	term	naner (10 to 15 nage	s) and presentation	(20 to 45 minutes) with subsequ	uent discussion	on a topic from the field of com-		
	Method of t	255c55ment	puter	science	s) and presentation					
			Langi	uage of assessment:	German and/or Eng	lish				
	Additional I	nformation	Focus LR, H	ses available for stud CI, GE	dents of the Master's	programme Informatik (Compu	iter Science, 120	b ECTS credits): AT, SE, IT, KI, ES,		

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 44 / 98

10-I=SEM4-212-	Sem	inar 2 - C	urrent Top	ics in (	cs in Computer Science							
m01	ECTS	5 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cour	rses		S (2) Modu The co	S (2) Module taught in: German and English The course is offered in parallel in both German and English.							
	Meth	nod of ass	sessment	term   Langu	erm paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar anguage of assessment: German and/or English							
	Addi	itional Inf	ormation	Focus LR, HO	es available for stuc CI, GE	dents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits): AT, SE, IT, KI, ES,			
10-I=SSS-212-m01	Secu	urity of So	ftware Sy	stems								
	ECTS	5 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cour	rses		V (2) - Modu	(2) + Ü (2) odule taught in: English							
	Meth	nod of as:	sessment	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: English creditable for bonus								
	Addi	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI, ES, SEC							
10-l=ST-212-m01	Disc	rete Even	t Simulati	on								
	ECTS	5 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cour	rses		V (4) ·	+ Ü (2)							
	Meth	nod of ass	sessment	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). Language of assessment: German and/or English creditable for bonus								
	Addi	itional Inf	ormation	Focus IT,KI,E	es available for stuc S,GE	dents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits):			

page 45 / 98

10-I=SAR-161-m01	Softwa	Software Architecture												
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	s		V (2) +	- Ü (2)	· · ·								
	Method	d of ass	essment	writte	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	of one candidate each (approx. 20 minutes) of an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)									
				date).	age of assessment	• German and /or Engli	ch							
				creditable for bonus										
	Additic	onal Info	rmation	Focus SE,IT,I	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES									
	Referre	d to in l	POI	§ 22	22 ll Nr. 3 b)									
Summer Term 2022	1 2022													
10-l=3D-212-m01	3D Poi	nt Cloud	l Processi	ng	g									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (2) +	+ Ü (2)									
				Modu	le taught in: Englisl	n								
	Method of assessment			writte	n examination (app	prox. 60 to 120 minute	s).							
				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										
				Separate written examination for Master's students										
				creditable for bonus										
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI,LR,HCI,GE										
10-I=AA-152-m01	Advand	ed Auto	omation					1						
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (4) +	- U (2)									
	Method of assessment			written examination (approx. 60 to 120 minutes) creditable for bonus										
	Additic	onal Info	rmation	Focus IT,IS,E	es available for stu S,LR,GE	dents of the Master's	programme Informatik (Con	nputer Science, 120	o ECTS credits):					
	Referre	d to in l	PO I	§ 22	Nr. 3 b)									

JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019

page 46 / 98

Computer Science (2019)

10-l=AG-161-m01	Computatio	nal Geomet	ry									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) +	V (2) + Ü (2)								
	Method of a	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	or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
			Langu	Language of assessment: German and/or English								
			credit	creditable for bonus								
	Additional I	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
10-l=APA-161-m01	Approximat	ion Algorith	ms	s								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) +	+ Ü (2)								
	Method of a	assessment	writte	written examination (approx. 60 to 120 minutes).								
			It 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).									
			Langu	Language of assessment: German and/or English								
			credit	creditable for bonus								
	Additional I	nformation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE									
	Referred to	in LPO I	§ 22 II Nr. 3 b)									
10-I=AKA-161-m01	Selected To	pics in Algo	rithms									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) +	+ Ü (2)								
	Method of a	assessment	writte	n examination (ap	prox. 60 to 120 minute	s).						
			If ann	ounced by the lect	urer at the beginning o	of the course, the written ex	xamination may be	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 candi- date).								
			Langu	age of assessmen	t: German and/or Engl	ish						
			credit	able for bonus								
	Additional I	nformation	Focus	es available for stu	idents of the Master's	programme Informatik (Co	mputer Science, 12	o ECTS credits):				

_			
	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 47 / 98
_			

10-I=A-	Selected To	Selected Topics in Embedded Systems												
KES-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2)	+ Ü (2)			<u>.</u>							
	Method of a	assessment	writte	written examination (approx. 60 to 120 minutes).										
			lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination										
			or on date)	date).										
			Langi	Jage of assessment:	German and/or Engl	lish								
			credit	table for bonus										
	Additional I	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.										
10-I=AKH-	Selected To	opics in HCI												
Cl-182-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2) ·	V (2) + Ü/S (2)										
	Method of a	assessment	writte	en examination (60 t	o 120 minutes)									
			lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exam	ination may be r	replaced by an oral examination						
			date)	e canuluale each (af	sprox. 20 minutes) of	an orac examination in groups		approx. 15 minutes per candi-						
			Langi	Language of assessment: German and/or English										
			credit	able for bonus										
	Additional I	nformation	Focus	ses available for stud	dents of the Master's	programme Informatik (Compu	uter Science, 120	o ECTS credits): HCI.						
10-I=AKII-182-m01	Selected To	opics in Com	outer Science											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2)	V (2) + U/S (2)										
	Method of a	assessment	written examination (approx. 60 to 120 minutes).											
			It announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination											
			or 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											
10-I=AKIS-212-m01	Selected To	pics in Intel	ligent	igent Systems										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2) ·	+ Ü (2)										
	Method of a	assessment	writte	en examination (app	rox. 60 to 120 minute	25)								
			lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exam	ination may be r	replaced by an oral examination						
			date)	e canuluale each (af	sprox. 20 minutes) of	an orac examination in groups		approx. 15 minutes per candi-						
			Langi	uage of assessment:	German and/or Engl	lish								
			credit	table for bonus										
	Additional I	nformation	Focus	ses available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits): Kl						

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 48 / 98

10-I=AKIT-161-m01	Selected Topics in Internet Technologies												
	ECT	S 5		Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	irses			V (2) ·	(2) + Ü (2)							
	Met	hod c	of asse	essment	writte	written examination (approx. 60 to 120 minutes).							
					lf ann	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).							
					of one								
					Langu	Jage of assessment	t: German and/or Eng	lish					
					credit	creditable for bonus							
	Adc	litiona	al Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							
10-I=A-	Sel	ected	Topic	s in IT Se	urity								
KITS-212-m01	ECT	S 5		Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				V (2) ·	+ Ü (2)							
					Module taught in: English								
	Met	hod c	ofasse	essment	writte	n examination (app	prox. 60 to 120 minut	es) af tha an una tha unit to a					
					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: English								
					creditable for bonus								
	Additional Information			rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI,								
	Sal	o cto d	Topic	in Aaro	ES, SEC								
R-161-m01	Set		τομια	Duration	space	pace Engineering							
	COL	<u> </u>		Duration	$\frac{1}{\sqrt{2}}$			Inumerical grade	Modul level	graduate			
	Mot	hod c	face	comont	v (z)	+ 0 (2)	arox 60 to 120 minut	oc)		-			
	mei	.nou c	n asse	ssment	lfann	ounced by the lect	urer at the beginning	of the course, the written e	xamination may be r	replaced by an oral examination			
					ofone	e candidate each (a	approx. 20 minutes) o	r an oral examination in gro	oups of 2 candidates	6 (approx. 15 minutes per candi-			
					date).								
					Sepai	rate written examin	ation for Master's stu	dents.					
					credit	able for bonus	L: German and/or Eng	11511					
	Add	litiona	al Info	rmation	Focus	ses available for stu	Idents of the Master's	s programme Informatik (Co	omputer Science, 120	ECTS credits): LR.			

10-I=AKT-161-m01	Selected Topics in Theory												
	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		V (2) -	$\sqrt{(2) + \ddot{U}(2)}$								
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additio	onal Info	rmation	Focus AT	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECTS credits):				
10-I=AGE-191-m01	Select	ed Topic	s of Gam	es Engi	ineering								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.									
10-I=AK-	Select	ed Topic	s in Softv	vare Engineering									
SE-161-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additio	onal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECIS credits): SE.				

10-l=LVS-161-m01	Performance E	<sup>2</sup> erformance Evaluation of Distributed Systems												
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (4)	+ Ü (2)										
	Method of ass	essment	writte	en examination (app	rox. 60 to 120 minute	5).								
			lf anr	It announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of an oral examination in groups of a candidates (approx, as minutes per candidates and a candidates (approx, as minutes per candidates).										
			date)	e candidate each (ap	oprox. 20 minutes) or	an oral examination in groups	of 2 candidate	s (approx. 15 minutes per candi-						
			Langi	Jage of assessment:	German and/or Engli	sh								
			credi	table for bonus										
	Additional Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):										
			AT,IT,	GE										
10-I=NLP-212-m01	Machine Learn	ing for Na	atural Language Processing				1							
	ECTS 5	Duratio	n Liska	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2)	+ U (2)										
	Method of ass	essment	writte	en examination (app	rox. 60 to 120 minute	5) f the cource, the written exami	nation may be	replaced by an eral examination						
			of on	e candidate each (ar	oprox. 20 minutes) or	an oral examination in groups	of 2 candidate	s (approx, 15 minutes per candi-						
			date)	date).										
			Langi	uage of assessment:	German and/or Engli	sh								
			credi	table for bonus										
	Additional Info	ormation	Focus	ses available for stud	dents of the Master's	programme Informatik (Compu	iter Science, 12	o ECTS credits): AT,KI,HCI						
	Referred to in I		§ 22	8 22 II INI. 3 D) a and Penchmarking of Computer Systems										
10-I=PEB-182-m01	Performance E	ngineerin	ig and	Benchmarking of Co	omputer Systems		1							
	ECIS 5	Duratio	n L	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		V (2)   Modu	+ U (2) No taught in: Englich										
	Mothod of acc	occmont	written examination (approx, oo to 100 minutes)											
	Method of ass	essment	Language of assessment: English											
			creditable for bonus											
10-I=PRAK-212-	Practical Cours	se - Curre	nt Top	nt Topics in Computer Science										
m01	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses		P (6)											
			Module taught in: German and English											
	Matha da Cara		The c	ourse is offered in p	arallel in both Germai	h and English.								
	Method of ass	essment	l term	paper (5 to 15 pages)	) German and/or Engli	sh								
	Additional Info	rmation	Focus	ses available for stur	lents of the Master's	orogramme Informatik (Compu	ter Science 12	o ECTS credits): AT SE IT KL ES						
		mation	LR, H	CI, GE	ients of the muster 5									

Computer Science (2019) IMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MMlo79 - - Hl2019 page 51 / 98			
	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 51 / 98

10-I=SEM3-212-	Semin	nar 1 - Cu	rrent Topi	ics in C	omputer Science			18			
m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		S (2) Module taught in: German and English The course is offered in parallel in both German and English.							
	Metho	od of asso	essment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English							
	Additional Information			Focus LR, H	es available for stuc CI, GE	dents of the Master's	programme Informatik (Co	mputer Science, 120	DECTS credits): AT, SE, IT, KI, ES,		
10-I=SEM4-212-	Semin	nar 2 - Cu	rrent Top	ics in (	Computer Science						
m01	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		S (2) Modu The c	S (2) Module taught in: German and English The course is offered in parallel in both German and English.						
	Method of assessment			term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE							
10-I=SSS-212-m01	Security of Software Systems										
	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) + Ü (2) Module taught in: English							
	Metho	od of asso	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 candi- date). Language of assessment: English creditable for bonus							
	Additi	onal Info	rmation	Focus ES, SI	es available for stuc EC	dents of the Master's	programme Informatik (Co	mputer Science, 120	DECTS credits): SE, KI, LR, HCI,		

10-l=ST-212-m01	Discrete	Event	Simulatio	on						
	ECTS 8	3	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (4) +	- Ü (2)		•	7		
	Method c	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 candi- date). Language of assessment: German and/or English creditable for bonus					
	Additiona	al Info	rmation	Focus IT,KI,E	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE					
10-I=SAR-161-m01	Software	Archi	tecture							
	ECTS 5	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (2) +	+ Ü (2)					
	method	JI 8556	essment	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						
	Additiona	al Info	rmation	Focus SE,IT,	es available for stud ES	dents of the Master's programme Informatik (Comp	outer Science, 120	c ECTS credits):		
	Referred	to in L	PO I	§ 22	Nr. 3 b)					
Winter Term 2022										
10-l=3D-212-m01	3D Point	Cloud	Processi	ng						
ECTS 5			Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			V (2) + Ü (2) Module taught in: English						
	Method o	of asse	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 candi- date). Language of assessment: German and/or English Separate written examination for Master's students creditable for bonus Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KLLR HCL GE						
L	. aantoni		mation			a sine master s programme mormatik (comp				

10-l=AA-152-m01	Advar	nced Aut	omation									
	ECTS	8	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (4) -	+ Ü (2)	· · ·						
	Metho	od of ass	essment	writte credit	written examination (approx. 60 to 120 minutes) creditable for bonus							
	Additi	onal Info	ormation	Focus IT,IS,E	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IS,ES,LR,GE							
	Referr	ed to in	LPO I	§ 22	22    Nr. 3 b)							
10-I=AG-161-m01	Comp	utationa	l Geometi	у								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (2) ·	+ Ü (2)							
				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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additional Information			AT,HCI,GE								
10-I=APA-161-m01	Appro	ximatio	n Algorith	ns								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Addit	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
	Referr	ed to in	LPO I	§ 22	l Nr. 3 b)							

10-I=AKA-161-m01	Selected Topic	s in Algoi	rithms								
	ECTS 5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	- Ü (2)							
	Method 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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additional Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT								
10-I=A-	Selected Topic	s in Embe	dded S	Systems							
KES-161-m01	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	- Ü (2)							
	Method of ass	essment	written If anno of one date). Langu credita	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). Language of assessment: German and/or English creditable for bonus							
	Additional Info	ormation	Focus	es available for stud	dents of the Master's	s programme Informatik	(Computer Science, 120	D ECTS credits): ES.			
10-I=AKH-	Selected Topics in HCI										
Cl-182-m01	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	- Ü/S (2)							
	Method of ass	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								
	Additional Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
10-I=AKII-182-m01	Selected Topic	s in Com	outer S	cience		1		1			
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) +	- Ü/S (2)							
	Method 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 candi- date). Language of assessment: German and/or English creditable for bonus								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 55 / 98

10-I=AKIS-212-m01	Sele	ected T	<b>Topics</b>	in Intell	igent S	Systems						
	ECTS	S 5		Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses			V (2) ·	V (2) + Ü (2)						
	Met	hod of	fasse	ssment	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).							
					credit	able for bonus						
	Add	itional	l Infor	mation	Focus	es available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits): KI		
10-I=AKIT-161-m01	Sele	ected T	<b>Topics</b>	in Inter	net Teo	chnologies						
	ECTS	S 5		Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses			V (2) ·	+ Ü (2)						
	Method of assessment			ssment	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							
	Additional Information			mation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							
10-I=A-	Sele	ected T	<b>Topics</b>	in IT Se	curity							
KITS-212-m01	ECTS	S 5		Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cou	rses			V (2) + Ü (2) Module taught in: English							
	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 candi- date). Language of assessment: English creditable for bonus							
	Add	itional	l Infor	mation	Focus ES, SI	es available for stu EC	dents of the Master's p	orogramme Informatik	(Computer Science, 120	) ECTS credits): SE, KI, LR, HCI,		

page 56 / 98

10-I=AKL-	Select	Selected Topics in Aerospace Engineering											
R-161-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) -	√ (2) + Ü (2)								
	Metho	d of ass	essment	writte If ann of one date). Separ 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 candi- date). Separate written examination for Master's students. Language of assessment: German and/or English creditable for bonus								
	Additi	onal Info	rmation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
10-I=AKT-161-m01	Select	ed Topic	s in Theo	ry									
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) + Ü (2)									
	Method of assessment			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									
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT									
10-I=AGE-191-m01	Select	ed Topic	s of Gam	es Engi	ineering								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		V (2) -	+ Ü (2)								
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additi	onal info	rmation	FOCUS	es available for stud	ients of the Master's	programme informatik (Compl	iter Science, 120	DECIS credits): GE.				

10-I=AK-	Selecte	ed Topic	s in Softv	vare Er	ngineering							
SE-161-m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) ·	/ (2) + Ü (2)							
	Method	d of asse	essment	writte	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								
				date).	date). Language of assessment: German and/or English							
				Langu								
				creditable for bonus								
	Additio	nal Info	rmation	Focus	es available for stuc	ents of the Master's	programme Informatik (Compu	iter Science, 120	ECTS credits): SE.			
10-l=LVS-161-m01	Perforn	nance Ev	aluation	of Dis	tributed Systems							
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4) -	+ U (2)							
	Methoo	d of asse	essment	writte	n examination (appr	ox. 60 to 120 minute	s).	ination may be	vanlaged by an eval even instian			
				of one	e candidate each (ar	prox. 20 minutes) or	an oral examination in groups	of 2 candidates	s (approx, 15 minutes per candi-			
				date).								
				Language of assessment: German and/or English								
				credit	able for bonus							
	Additio	nal Info	rmation	Focus	es available for stuc GF	lents of the Master's	programme Informatik (Compu	iter Science, 120	o ECTS credits):			
10-I=NI P-212-m01	Machin	e l earn	ing for Na	atural I	anguage Processin	σ.						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) ·	/ (2) + Ü (2)							
	Method	d of asse	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	e candidate each (ap	prox. 20 minutes) or	an oral examination in groups	of 2 candidates	s (approx. 15 minutes per candi-			
				l angi	lage of assessment:	German and/or Engl	ish					
				creditable for bonus								
	Additio	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,KI,HCI								
	Referre	d to in L	PO I	§ 22	l Nr. 3 b)							
10-I=PEB-182-m01	Perform	nance Ei	ngineerin	g and	Benchmarking of Co	mputer Systems						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) ·	+ Ü (2)							
				Modu	Module taught in: English							
	Method	d of asse	essment	writte	n examination (appr	ox. 90 to 120 minute	s)					
				credit	age of assessment: able for bonus							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 58 / 98

10-I=PRAK-212-	Practical Course - Current Topics in Computer Science										
m01	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (6) Module taught in: German and English The course is offered in parallel in both German and English.								
	Method of as	sessment	term paper (5 to 15 pages) Language of assessment: German and/or English								
	Additional In	formation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE								
10-I=SEM3-212-	Seminar 1 - C	urrent Top	ics in C	omputer Science							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Modu The c	S (2) Module taught in: German and English The course is offered in parallel in both German and English.							
	Method of as	sessment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com- puter science Language of assessment: German and/or English								
	Additional In	formation	Focus LR, H	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, R, HCI, GE							
10-I=SEM4-212-	Seminar 2 - C	Current Top	ics in (	Computer Science							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Module taught in: German and English The course is offered in parallel in both German and English.								
	Method of as	sessment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English								
	Additional In	formation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE								
10-I=SSS-212-m01	Security of S	oftware Sy	stems	items							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) + Ü (2) Module taught in: English								
	Method of as	sessment	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). Language of assessment: English creditable for bonus								
	Additional In	formation	Focus ES, SI	es available for stuc EC	lents of the Master's	programme Informatik (Compu	ter Science, 120	o ECTS credits): SE, KI, LR, HCI,			

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 59 / 98

10-l=ST-212-m01	Discrete E	Discrete Event Simulation										
	ECTS 8	Dura	tion	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (4)	+ Ü (2)								
	Method o	fassessme	nt writt If an of or date Lang cred	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). Language of assessment: German and/or English creditable for bonus								
	Additiona	l Informati	on Focu IT,KI	ses available for stu ES,GE	dents of the Master's programme Informatik (Comp	uter Science, 120	c ECTS credits):					
10-I=SAR-161-m01	Software	Architectu	e									
	ECTS 5	Dura	tion	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (2)	+ Ü (2)								
	Method o	1 455655116	Iff an of or date Lang cred	f 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								
	Additiona	l Informati	on Focu SE,I1	ses available for stu ,ES	dents of the Master's programme Informatik (Comp	uter Science, 12	c ECTS credits):					
	Referred t	o in LPO I	§ 22	II Nr. 3 b)								
Summer Term 2023	3											
10-l=3D-212-m01	3D Point (	Cloud Proc	ssing									
	ECTS 5	Dura	tion	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		V (2) Mod	+ Ü (2) ule taught in: English	1							
	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 or of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutate).         Language of assessment: German and/or English         Separate written examination for Master's students creditable for bonus											
1	, launionu	·····uti			achte er the master 5 programme moninatik (comp	ate: Science, 12.	s construction in children of					

10-I=AA-152-m01	Advanced Auto	mation										
	ECTS 8	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Courses		V (4) +	(4) + Ü (2)								
	Method of asse	essment	writte credit	written examination (approx. 60 to 120 minutes) creditable for bonus								
	Additional Info	rmation	Focus IT,IS,E	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE								
	Referred to in L	.PO I	§ 22	§ 22 II Nr. 3 b)								
10-l=AG-161-m01	Computational	Geometi	y									
	ECTS 5	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Courses		V (2) +	+ Ü (2)								
	Method of asse	essment	writte If ann of one date). Langu credit	vritten examination (approx. 60 to 120 minutes). f 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								
	Additional Info	rmation	Focus AT,HC	es available for stu I,GE	idents of the Master	s programme Informat	ik (Computer Science, 12	eo ECTS credits):				
10-I=AGE-191-m01	Selected Topic	s of Gam	es Engi	s Engineering								
	ECTS 5	Duratio	1	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	Courses		V (2) +	+ Ü (2)								
	Method of asse	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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additional Info	rmation	Focus	es available for stu	dents of the Master	s programme Informat	ik (Computer Science, 12	o ECTS credits): GE.				
10-I=AKA-161-m01	Selected Topic	s in Algo	rithms									
	ECTS 5	Duratio	n	1 semester	Method of grading	g numerical grade	Modul level	graduate				
	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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additional Info	rmation	Focus AT	es available for stu	dents of the Master	s programme Informat	ik (Computer Science, 12	eo ECTS credits):				
Computer Science (2010)						IMII Würzburg • genera	ited 10-Apr-2025 • exam reg data r	ecord MMIozol-I-IHI2010 page 61 / 08				

10-I=A-	Selected To	pics in Emb	edded	Systems							
KES-161-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)			<u>.</u>				
	Method of a	assessment	writte	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								
			or on date)	date).							
			Langi	Jage of assessment:	German and/or Engl	lish					
			credit	creditable for bonus							
	Additional I	nformation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
10-I=AKH-	Selected To	opics in HCI									
Cl-182-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) ·	+ Ü/S (2)							
	Method of a	assessment	writte	en examination (60 t	o 120 minutes)						
			lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exam	ination may be r	replaced by an oral examination			
			date)	e canuluale each (af	sprox. 20 minutes) of	an orac examination in groups		approx. 15 minutes per candi-			
			Langi	Language of assessment: German and/or English							
			credit	able for bonus							
	Additional I	nformation	Focus	ses available for stud	dents of the Master's	programme Informatik (Compu	uter Science, 120	e ECTS credits): HCI.			
10-I=AKII-182-m01	Selected To	opics in Com	puter S	iter Science							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü/S (2)							
	Method of a	assessment	writte	written examination (approx. 60 to 120 minutes).							
			lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
			date)	e canuluale each (af	opiox. 20 minutes) of			approx. 15 minutes per candi-			
			Langi	uage of assessment:	German and/or Engl	lish					
			creditable for bonus								
10-I=AKIS-212-m01	Selected To	pics in Intel	ligent	Systems							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2) ·	+ Ü (2)							
	Method of a	assessment	writte	en examination (app	rox. 60 to 120 minute	25)					
			lf ann	ounced by the lectu	rer at the beginning o	of the course, the written exam	ination may be r	replaced by an oral examination			
			date)	e canuluale each (af	sprox. 20 minutes) of	an orac examination in groups		approx. 15 minutes per candi-			
			Langi	Language of assessment: German and/or English							
			credit	table for bonus							
	Additional I	nformation	Focus	ses available for stud	dents of the Master's	programme Informatik (Comp	uter Science, 120	o ECTS credits): Kl			

Computer Science (2019) JA	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 62 / 98

10-I=AKIT-161-m01	Sel	ected											
	ECT	S 5		Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	irses			V (2) ·	+ Ü (2)	•		2				
	Met	hod c	of asse	essment	writte	n examination (app	prox. 60 to 120 minut	es).					
					lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
					of one	e candidate each (a	approx. 20 minutes) o	r an oral examination in gro	oups of 2 candidates	approx. 15 minutes per candi-			
					Langu	Language of assessment: German and/or English							
					credit	creditable for bonus							
	Adc	litiona	al Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.							
10-I=A-	Sel	ected	Topic	s in IT Se	curity								
KITS-212-m01	ECT	S 5		Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cou	irses			V (2) ·	2) + Ü (2)							
					Modu	lle taught in: Englis	h						
	Met	hod c	ofasse	essment	writte	n examination (app	prox. 60 to 120 minut	es) af tha an una tha unit to a					
					of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
					date).					approx. 15 minutes per currar			
					Langu	Language of assessment: English							
					creditable for bonus								
	Add	litiona	al Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI,								
	Sal	o cto d	Topic	in Aaro	LES, SEC								
R-161-m01	Set		τομια	Duration	space		Mothod of grading	numorical grado	Madulloval	graduato			
	COL	<u> </u>		Duration	$\frac{1}{\sqrt{2}}$			Inumerical grade	Modul level	graduate			
	Mot	hod c	face	comont	v (2)	+ 0 (2)	arox 60 to 120 minut	oc)		-			
	mei	.nou c	n asse	ssment	lfann	ounced by the lect	urer at the beginning	of the course, the written e	xamination may be r	replaced by an oral examination			
					ofone	e candidate each (a	approx. 20 minutes) o	r an oral examination in gro	oups of 2 candidates	6 (approx. 15 minutes per candi-			
					date).								
	Separate written examination for Master's students.												
					Language of assessment: German and/or English creditable for bonus								
	Add	litiona	al Info	rmation	Focus	ses available for stu	Idents of the Master's	s programme Informatik (Co	omputer Science, 120	ECTS credits): LR.			

10-I=AK-	Sele	cted Topics in Software Engineering										
SE-161-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		V (2) -	+ Ü (2)			÷	•			
	Meth	od of as	sessment	writte	n examination (app	prox. 60 to 120 minute	s).					
				lf ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
				of one date)	)f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per c Hate).							
				Langu	Language of assessment: German and/or English							
				creditable for bonus								
	Addi	tional In	formation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.							
10-I=AKT-161-m01	Sele	ted Top	oics in Theo	ry								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		V (2) -	+ Ü (2)							
	Meth		sessment	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								
	Addit	tional In	formation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT								
10-I=APA-161-m01	Appr	oximati	on Algorith	Ims								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		V (2) -	+ Ü (2)				_			
	Meth	od of as	sessment	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). Language of assessment: German and/or English creditable for bonus								
	Addit	tional In	formation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
	Refer	red to in	1 LPO I	§ 22	I Nr. 3 b)							

10-l=LVS-161-m01	Performance E	valuation	of Dis	tributed Systems								
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (4)	+ Ü (2)								
	Method of ass	essment	written examination (approx. 60 to 120 minutes).									
			lf anr	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
			date)	date). Language of assessment: German and/or English								
			Langi									
			credi	creditable for bonus								
	Additional Info	ormation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
			AT,IT,	GE								
10-I=NLP-212-m01	Machine Learn	ing for Na	atural	Language Processin	<b>g</b>		1					
	ECTS 5	Duratio	n Liska	1 semester	graduate							
	Courses		V (2)	+ U (2)								
	Method of ass	essment	writte	ten examination (approx. 60 to 120 minutes)								
			of on	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)	•		5		- (*** *** - 5 · · · · · · · · · · · · · · · · · ·				
			Langi	uage of assessment:	German and/or Engli	sh						
			credi	table for bonus								
	Additional Info	ormation	Focus	ses available for stud	dents of the Master's	programme Informatik (Compu	iter Science, 12	o ECTS credits): AT,KI,HCI				
	Referred to in I		§ 22	I Nr. 3 b)								
10-I=PEB-182-m01	Performance E	ngineerin	ig and	Benchmarking of Co	omputer Systems		1					
	ECIS 5	Duratio	n L	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)   Modu	+ U (2) No taught in: Englich								
	Mothod of acc	occmont	writte	ne taught in: English	rox oo to 120 minuto	-)						
	Method of ass	essment	lang	lage of assessment:	Fnglish	5)						
			creditable for bonus									
10-I=PRAK-212-	Practical Cours	se - Curre	nt Top	ics in Computer Scie	ence							
m01	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (6)									
			Modu	Ile taught in: Germai	n and English							
	Matha da Cara		The course is offered in parallel in both German and English.									
	Method of ass	essment	term paper (5 to 15 pages)									
	Additional Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science 120 FCTS credits). AT SF IT KLES									
		mation	LR, HCI, GE									

Computer Science (2019) JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019 page 65 / 98			
	Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 65 / 98

10-I=SAR-161-m01	Softwa	re Archi	itecture											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	es		V (2) +	/ (2) + Ü (2)									
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus										
	Additio	onal Info	rmation	Focus SE,IT,	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): E,IT,ES									
	Referre	ed to in l	PO I	§ 22	22 ll Nr. 3 b)									
10-I=SEM3-212-	Semin	ar 1 - Cu	rrent Top	It Topics in Computer Science										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	25		S (2) Modu The co	S (2) Module taught in: German and English The course is offered in parallel in both German and English.									
	Metho	d of ass	essment	term p puter Langu	oaper (10 to 15 page science lage of assessment:	s) and presentation ( German and/or Engl	30 to 45 minutes) with subsequish	uent discussion	on a topic from the field of com-					
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE										
10-I=SEM4-212-	Semin	ar 2 - Cu	rrent Top	ics in C	Computer Science									
m01	ECTS	5	Duratio	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	2S		S (2) Module taught in: German and English The course is offered in parallel in both German and English.										
	Metho	d of ass	essment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English										
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE										

10-l=SSS-212-m01	Securit	Security of Software Systems										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	- + Ü (2)			-				
				Modu	le taught in: English	1						
	Method	d of ass	essment	writte	n examination (app	contacted by an oral examination						
				ofone	e candidate each (ai	s (approx, 15 minutes per candi-						
				date).			(opp					
				Langu	age of assessment:							
	Additio	nalinfa	rmation	Feelin	unable for builds							
	Additio	natinit	ormation	ES, SE	EC	Jents of the Master's	programme informatik (Compu		) ECTS CIEUILS): SE, KI, LK, HCI,			
10-I=ST-212-m01	Discret	iscrete Event Simulat			on							
	ECTS	8	Duration	<u>n</u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (4) -	+ Ü (2)							
	Method	Method of assessment written examination (approx. 60 to 120 minutes)										
				It ann	ounced by the lectu	rer at the beginning (	of the course, the written examination in groups	nation may be i	replaced by an oral examination			
				date).	e canuluale each (af	sprox. 20 minutes) of	an orat examination in groups		approx. 15 minutes per candi-			
				Langu	age of assessment:	German and/or Engl	ish					
			creditable for bonus									
	Additio	nal Info	ormation	Focus IT,KI,E	es available for stud S,GE	lents of the Master's	programme Informatik (Compu	ter Science, 120	eCTS credits):			
Winter Term 2023												
10-l=3D-232-m01	3D Poir	nt Cloud	l Processi	ing								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	+ Ü (2)							
				Modu	le taught in: English							
	Method	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	es)		an la cal bu an anal avan in stian			
				of one	ounced by the lectu candidate each (ar	rer at the beginning (	of the course, the written examination in groups	nation may be i	eplaced by an oral examination			
				date).		5p10x. 20 mmutes) of	an oral examination in groups		approx. 15 minutes per canal			
				Langu	lage of assessment:	German and/or Engl	ish					
				credit	able for bonus							
	Additio	nal Info	ormation	Focus	es available for stud	dents of the Master's	programme Informatik (Compu	ter Science, 120	ECTS credits): KI,LR,HCI,GE			

10-l=AA-152-m01	Advan	ced Auto	mation									
	ECTS	8	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (4) +	- + Ü (2)	· ·		•				
	Metho	d of ass	essment	writte credit	rritten examination (approx. 60 to 120 minutes) reditable for bonus							
	Additio	onal Info	ormation	Focus IT,IS,E	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IS,ES,LR,GE							
	Referre	ed to in l	POI	§ 22	l Nr. 3 b)							
10-l=AG-232-m01	Compu	Itationa	l Geometi	y								
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (2) +	+ Ü (2)							
	Metho	d of ass	essment	writte 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation	Focus AT,HC	es available for stu I,GE,IN	dents of the Master's programme Informa	tik (Computer Science, 120	o ECTS credits):				
	Referre	ed to in l	PO I	§ 22 II Nr. 3 b)								
10-I=APA-161-m01	Approx	kimation	n Algorith	ms								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es	_	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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation	Focus AT,IT,	es available for stu GE	dents of the Master's programme Informa	tik (Computer Science, 120	ECTS credits):				
	Referre	ed to in l	POI	§ 22	l Nr. 3 b)							

10-I=AKA-232-m01	Selecte	ed Topic	s in Algo	rithms								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	(2) + Ü (2)							
	Metho	d of ass	essment	a) wri	a) written examination (approx. 60 to 120 minutes) or							
				b) pro	b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or							
				c) ora	) oral examination of one candidate each (approx. 20 minutes) or 1) oral examination in groups of up to 2 candidates (approx. 15 minutes per candidate)							
				a) ora	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additic	onal Info	rmation	Focus AT	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT							
	Referre	ed to in l	PO I	§ 22	22 II Nr. 3 b)							
10-I=A-	Select	ed Topic	s in Embe	edded S	Systems							
KES-232-m01	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	+ Ü (2)							
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Additio	onal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.								
	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=AKH-	Select	ed Topic	s in HCI									
CI-232-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es	•	V (2) -	+ Ü/S (2)			•				
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Additio	onal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik (	Computer Science, 120	ECTS credits): HCI.			
	Referre	ed to in l	POI	§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 69 / 98

10-I=AKII-232-m01	Selected	l Topic	s in Comp									
	ECTS 5 Durati Courses			۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2)	(2) + Ü/S (2)							
	Method	of ass	essment	a) wri	a) written examination (approx. 60 to 120 minutes) or							
				<ul> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> </ul>								
				credit	creditable for bonus							
	Referred	to in L	PO I	§ 22	3 22 II Nr. 3 b)							
10-I=A-	Selected	l Topic	s in Intell	igent Systems								
KIS-232-m01	ECTS	5	Duration	ו	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2)	) + Ü (2)							
	Method	Method of assessment			<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>							
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI								
	Referred	to in L	POI	§ 22 II Nr. 3 b)								
10-I=AKIT-232-m01	Selected	l Topic	s in Inter	net Te	chnologies							
	ECTS	5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) ·	+ Ü (2)							
	Method	of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Addition	al Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informatik (	(Computer Science, 12)	o ECTS credits): IT.			
	Referred	to in L	PO I	§ 22	l Nr. 3 b)							

10-I=A-	Select	ed Topi	cs in IT Se	curity								
KITS-232-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		V (2)	+ Ü (2)			·				
				Modu	ile taught in: Englis	h						
	Metho	d of ass	essment	a) wri	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx, 20 pages) with presentation (20 to 45 minutes) and subsequent discussion on the topic) or							
				c) ora	oral examination of one candidate each (approx. 20 minutes) or							
				d) ora	al examination in gr	oups of up to 3 candi	dates (approx. 15 minute	s per candidate)				
				Langı credit	anguage of assessment: English creditable for bonus							
	Additi	onal Info	ormation	Focus ES, S	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI, S, SEC							
	Referre	ed to in	LPO I	§ 22	§ 22    Nr. 3 b)							
10-I=AKL-	Select	ed Topio	s in Aero	space	e Engineering							
R-232-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2)	+ Ü (2)							
	Metho	d of ass	essment	a) wri	tten examination (a	approx. 60 to 120 min	utes) or					
				b) pro	b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or							
				c) ora	d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)							
				Langi	Language of assessment: German and/or English							
				credit	creditable for bonus							
	Additional Information			Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.							
	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=AKT-232-m01	Select	ed Topio	cs in Theo	ry								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2)	+ Ü (2)							
	Metho	d of ass	essment	a) wri	tten examination (a	approx. 60 to 120 min	utes) or					
				b) pro	oject work (report (a	ipprox. 20 pages) with	n presentation (30 to 45 r	minutes) and subsequ	ent discussion on the topic) or			
				c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 2 candidates (approx. 15 minutes per candidate)								
				Langi	Language of assessment: German and/or English							
				creditable for bonus								
	Additi	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT								
	Referre	ed to in	LPO I	§ 22	I Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 71 / 98

10-I=AGE-232-m01	Selected Topics in Games Engineering									
	ECTS 5 Duration		Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	S		V (2)	+ Ü (2)	•				
	Method	l of ass	essment	a) wri	itten examination	(approx. 60 to 120 min	utes) or			
				b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or						
				c) oral examination of one candidate each (approx. 20 minutes) or						
				Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): GE.						
	Referred to in LPO I			§ 22 II Nr. 3 b)						
10-l=AK- SE-232-m01	Selected Topics in Software Engineering									
	ECTS 5 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	5		V (2)	+ Ü (2)					
				<ul> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.						
	Referred to in LPO I § 22 II Nr. 3 b)				II Nr. 3 b)					
10-I=LVS-232-m01	Performance Evaluation of Distributed Systems									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	5		V (2)	+ 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 candi- date). Language of assessment: German and/or English creditable for bonus						
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE,IN						
	Referred to in LPO I			§ 22 II Nr. 3 b)						
10-I=NLP-212-m01	Machine Le	arning for N	atural	Language Processin	g					
------------------	----------------------	---------------	---	--	------------------------	--	-------------------	--------------------------------------	--	--
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)	•		2			
	Method of a	issessment	written examination (approx. 60 to 120 minutes)							
			of on	ounced by the lectu	rer at the beginning (	of the course, the written examination in groups	nation may be i	replaced by an oral examination		
			date)	·		an orat examination in groups		s (approx. 15 minutes per currar		
			Langu	lage of assessment:	German and/or Engl	ish				
	Creditable for bonus									
	Additional I	nformation	Focus	ses available for stuc	lents of the Master's	programme Informatik (Compu	iter Science, 120	o ECIS credits): AI,KI,HCI		
	Referred to		§ 22	I Nr. 3 D)						
10-I=PEB-182-m01	Performanc	e Engineerir	ig and	Benchmarking of Co	mputer Systems	· · ·				
	ECIS 5	Duratio	n Ivec N	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) Modu	+ U (2) Ile taught in: English						
	Method of a	issessment	writte	written examination (approx. 90 to 120 minutes)						
			Langu	lage of assessment:	English					
	Dra atical Ca	C	crean							
10-I=PKAK-232-		Durse - Curre	пстор	ics in Computer Scie	Method of suching			ave duete		
	ECIS 10	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		Modu	Module taught in: German and English						
			The c	The course is offered in parallel in both German and English.						
	Method of a	issessment	term paper (5 to 15 pages)							
			Langu	Language of assessment: German and/or English						
	Additional I	nformation	LR, H	LR, HCl, GE, SEC, IN						
10-I=SEM3-232-	Seminar 1 -	Current Top	ics in (	Computer Science						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2)							
			Modu	Ile taught in: Germar	and English	n and English				
	Mothod of a	scoccmont	torm	paper (10 to 15 page	s) and procontation (	n and English.	unt discussion	on a tonic from the field of com		
	method of a	issessment	puter	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com-						
			Langu	lage of assessment:	German and/or Engl	ish				
	Additional I	nformation	Focus LR, H	ses available for stuc CI, GE, SEC, IN	lents of the Master's	programme Informatik (Compu	ter Science, 120	o ECTS credits): AT, SE, IT, KI, ES,		

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 73 / 98

10-I=SEM4-232-	Semina	ar 2 - Cu	rrent Topi	pics in Computer Science									
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) Module taught in: German and English The course is offered in parallel in both German and English.									
	Method of assessment			term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English									
	Additic	onal Info	ormation	Focus LR, HC	es available for stuc CI, GE, SEC, IN	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECTS credits): AT, SE, IT, KI, ES,				
10-l=SSS-232-m01	Securit	y of Sol	ftware Sys	tems									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Modu	(2) + Ü (2) Aodule taught in: English								
	Method of assessment			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: English creditable for bonus									
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES, SEC,IN									
	Referre	d to in l	LPO I	§ 22 II Nr. 3 b)									
10-l=ST-232-m01	Discrete Event Simulation												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	_	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 candi- date). Language of assessment: German and/or English creditable for bonus									
	Additic	onal Info	ormation	Focus IT,KI,E	es available for stud S,GE,IN	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECTS credits):				
	Referre	d to in l	LPO I	§ 22	Nr. 3 b)								

10-I=SAR-161-m01	mo1 Software Architecture												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) +	+ Ü (2)								
	Metho	d of ass	essment	writte	vritten examination (approx. 60 to 120 minutes).								
				If ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
	date)												
				Langu	age of assessment:	: German and/or Engl	ish						
				credit	creditable for bonus								
	Additio	onal Info	ormation	Focus SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES								
	Referre	ed to in I	LPO I	§ 22	22 II Nr. 3 b)								
Summer Term 202	4												
10-l=3D-232-m01	3D Poi	nt Cloud	l Processi	ing	lg								
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) +	$V(2) + \ddot{U}(2)$								
				Module taught in: English									
	Metho	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	S)						
				of one	of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-								
				date).	date).								
				Langu	age of assessment:	: German and/or Engl	ish						
				creditable for bonus									
	Additio	onal Info	ormation	Focus	es available for stud	dents of the Master's	programme Informatik (Com	puter Science, 120	o ECTS credits): KI,LR,HCI,GE				
10-I=AA-152-m01	Advan	ced Auto	omation										
	ECTS	8	Duration	n Isra	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (4) -	+ U (2)								
	Method of assessment			writte credit	written examination (approx. 60 to 120 minutes) creditable for bonus								
	Additio	onal Info	ormation	Focus IT,IS,E	es available for stud S,LR,GE	dents of the Master's	programme Informatik (Com	puter Science, 120	o ECTS credits):				
	Referre	ed to in I	LPO I	§ 22	Nr. 3 b)								

10-l=AG-232-m01	Compu	Itationa	l Geometi	y								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s		V (2)	+ Ü (2)		•					
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additio	onal Info	ormation	Focus AT,HC	es available for stud CI,GE,IN	dents of the Master's programme Informatik (Comp	uter Science, 120	DECTS credits):				
	Referre	ed to in l	PO I	§ 22	I Nr. 3 b)							
10-I=APA-161-m01	Approx	kimation	Algorith	ms								
	ECTS	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	2) + Ü (2)							
	method of assessment			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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
	Referre	ed to in l	PO I	§ 22 II Nr. 3 b)								
10-I=AKA-232-m01	Select	ed Topic	s in Algo	rithms								
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) ·	+ Ü (2)							
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Additio	onal Info	ormation	Focus AT	ses available for stud	dents of the Master's programme Informatik (Comp	uter Science, 120	ECTS credits):				
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 76 / 98

Selecte	ed Topic	s in Embe	edded Systems								
ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	+ Ü (2)	· · ·						
Metho	d of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
Additional Information			Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
Referre	d to in l	LPO I	§ 22	22 ll Nr. 3 b)							
Select	ed Topic	s in HCI									
ECTS	5	Duratio	ı	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	+ Ü/S (2)							
Metho	d of ass	essment	<ul> <li>a) written examination (approx. so to 120 minutes) of</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>								
Additio	onal Info	ormation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.							
Referre	ed to in l	LPO I	§ 22	l Nr. 3 b)							
Selected Topics in Computer Science											
ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	+ Ü/S (2)							
Metho	d of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
	Selecto ECTS Course Method Referre Selecto ECTS Course Method ECTS Course Method ECTS Course Method	Selected Topic         ECTS       5         Courses       Method of ass         Additional Info         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Selected Topic         ECTS       5         Courses         Method of ass         Additional Info         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Method of ass         Referred to in I	Selected Topics in Embed         ECTS       5       Duration         Courses       Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration         Courses         Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in HCI         ECTS       5         Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in Completion         Courses         Method of assessment         Method of assessment         Referred to in LPO I         Selected Topics in Completion         Referred to in LPO I	Selected Topics in Embedded         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       c) orading         Additional Information       Focus         Referred to in LPO I       § 22 I         Selected Topics in HCI       ECTS         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       Courses         Referred to in LPO I       § 22 I         Selected Topics in Computer S       ECTS         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) proces       C orad         c) orad       a) orad         Langue       C orad	Selected Topics in Embedded SystemsECTS5Duration1 semesterCoursesV (2) + Ü (2)Method of assessmenta) written examination b) project work (report c) oral examination in Language of assessme creditable for bonusAdditional InformationFocuses available for second g 22 II Nr. 3 b)Selected Topics in HCI§ 22 II Nr. 3 b)ECTS5Duration1 semester1 semesterCoursesV (2) + Ü/S (2)Method of assessment additional Informationa) written examination of d) oral examination in Language of assessmen creditable for bonusAdditional Information1 semesterCoursesV (2) + Ü/S (2)Method of assessment additional Informationa) written examination of d) oral examination in Language of assessme creditable for bonusAdditional InformationFocuses available for secure available for secureReferred to in LPO I§ 22 II Nr. 3 b)Selected Topics in Computer ScienceECTS5DurationSelected Topics in Computer ScienceECTS5DurationMethod of assessment a) written examination b) project work (report c) oral examination of d) oral examination in Language of assessme creditable for bonusReferred to in LPO I§ 22 II Nr. 3 b)Referred to in LPO I§ 22 II Nr. 3 b)	Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 6o to 120 minutes) or         b) project work (report (approx. 20 pages) with presentation (3; c) oral examination of one candidate each (approx. 20 minutes) d) oral examination in groups of up to 3 candidates (approx. 15)         Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Info         Referred to in LPO I       § 22 II Nr. 3 b)         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 6o to 120 minutes) or         b) project work (report (approx. 20 pages) with presentation (3; c) oral examination of one candidate each (approx. 15)         Courses       V (2) + Ü/S (2)         Method of assessment       a) written examination in groups of up to 3 candidates (approx. 15)         Courses       V (2) + Ü/S (2)         Method of assessment       a) written examination in groups of up to 3 candidates (approx. 15)         Language of assessment: German and/or English creditable for bonus         Additional Information <t< td=""><td>Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade       Modul level         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 12 Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes) and subset c) oral examination of one candidate each (approx. 20 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 14 Referred to in LPO I         Selected Topics in Computer Science       Image of assessment: German and/or English creditable for bonus         Additional Information       1 sem</td></t<>	Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade       Modul level         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 12 Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes) and subset c) oral examination of one candidate each (approx. 20 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 14 Referred to in LPO I         Selected Topics in Computer Science       Image of assessment: German and/or English creditable for bonus         Additional Information       1 sem				

10-I=A-	Sele	ected 1	Topics	in Intell	igent Systems									
KIS-232-m01	ECTS	S 5		Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate		
	Cou	rses	·		V (2) +	· Ü (2)					-			
	Met	hod of	fasses	sment	a) writ	ten examination	(approx.	60 to 120 mi	nutes) or					
					b) proj	iect work (report	(approx.	20 pages) wi	th presentation (	30 to 45 minute	es) and subsequ	ient discussion on the topic) or		
					c) oral	c) oral examination of one candidate each (approx. 20 minutes) or								
					Language of assessment: German and/or English									
					creditable for bonus									
	Add	itiona	l Inforr	nation	Focuse	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI								
	Referred to in LPO I				§ 22	Nr. 3 b)								
10-I=AKIT-232-m01	Sele	ected 1	Topics	in Interr	et Tec	hnologies								
	ECTS 5 Duration			Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate		
	Courses				V (2) +	· Ü (2)								
	Method of assessment				a) writ b) proi	ten examination ject work (report	(approx.	60 to 120 mi 20 pages) wi	nutes) or th presentation (?	30 to 45 minute	es) and subsequ	ient discussion on the topic) or		
					c) oral examination of one candidate each (approx. 20 minutes) or									
					d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)									
					Language of assessment: German and/or English									
					Creditable for bonus									
	Add	itiona	l Inforr	nation	Focuses available for students of the Master's programme informatik (Computer Science, 120 ECIS credits): II.									
	Refe	erred t	o in LP	01	§ 22 II Nr. 3 b)									
10-I=A-	Sele	ected 1	Topics	in IT Sec	urity									
KIIS-232-m01	ECTS	S 5		Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate		
	Cou	rses			V (2) + Ü (2) Module taught in: English									
	Met	hod of	fasses	sment	a) writ	ten examination	(approx.	60 to 120 mi	nutes) or					
					b) proj	ject work (report	(approx.	20 pages) wi	th presentation (	30 to 45 minute	es) and subsequ	ient discussion on the topic) or		
					c) oral examination of one candidate each (approx. 20 minutes) or									
					d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)									
					creditable for bonus									
	Add	itiona	l Inforr	nation	Focuse FS, SF	es available for s C	tudents o	f the Master	's programme Info	ormatik (Compu	uter Science, 12	o ECTS credits): SE, KI, LR, HCI,		
	Refe	erred t	o in LP	01	§ 22	Nr. 3 b)								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 78 / 98

10-I=AKL-	Selected Topic	s in Aero	Aerospace Engineering								
R-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	/ (2) + Ü (2)							
	Method of asse	essment	a) wri	a) written examination (approx. 60 to 120 minutes) or							
			b) pro	b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 2 candidates (approx. 15 minutes per candidate)							
			c) ora								
			l angi	Language of assessment: German and/or English							
			credit	creditable for bonus							
	Additional Info	rmation	Focus	ses available for stu	Idents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): LR.			
	Referred to in L	PO I	§ 22	I Nr. 3 b)							
10-I=AKT-232-m01	Selected Topic	s in Theo	ry								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)							
	Method of asse	essment	a) wri	tten examination (a	approx. 60 to 120 min	utes) or					
			b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
			d) oral examination of one candidate each (approx. 20 minutes) or								
			langi	Language of assessment: German and/or English							
			creditable for bonus								
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
			AT								
	Referred to in L	.PO I	§ 22 II Nr. 3 b)								
10-I=AGE-232-m01	Selected Topic	s in Gam	es Eng	ineering							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	-	V (2)	+ Ü (2)							
	Method of asse	essment	a) wri	tten examination (a	approx. 60 to 120 min	utes) or					
			b) pro	oject work (report (a	pprox. 20 pages) with	presentation (30 to 4	<sub>45</sub> minutes) and subsequ	ient discussion on the topic) or			
			c) oral examination of one candidate each (approx. 20 minutes) or								
			Language of assessment: German and/or English								
			credit	table for bonus							
	Additional Info	rmation	Focus	ses available for stu	Idents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): GE.			
	Referred to in L	PO I	§ 22	I Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 79 / 98

10-I=AK-	Selected Top	cs in Soft	in Software Engineering									
SE-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)	•							
	Method of as	sessment	a) wr	ı) written examination (approx. 60 to 120 minutes) or								
			b) pro	) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
			c) ora	c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 2 candidates (approx. 15 minutes per candidate)								
			l ang	Language of assessment: German and/or English								
			credi	creditable for bonus								
	Additional Inf	ormation	Focus	ses available for stu	Idents of the Master's	s programme Informatik	(Computer Science, 120	o ECTS credits): SE.				
	Referred to in	LPO I	§ 22	ll Nr. 3 b)				_				
10-I=LVS-232-m01	Performance	Performance Evaluation of Distributed Systems										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)	2) + Ü (2)								
	Method of as	sessment	writte	en examination (app	prox. 60 to 120 minut	es).						
			If anr	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, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 25 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 26 minutes) or an oral examination in groups of 2 candidates (approx, 2								
			or on	date).								
			Lang	• uage of assessmen	t: German and/or Eng	lish						
			credi	creditable for bonus								
	Additional Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):									
			AT,IT,GE,IN									
	Referred to in	LPO I	§ 22	§ 22 II Nr. 3 b)								
10-I=NLP-212-m01	Machine Lear	ning for N	atural	Language Processi	ng							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)								
	Method of as	sessment	writte	en examination (app	prox. 60 to 120 minut	es)						
			If anr	nounced by the lect	urer at the beginning	of the course, the writte	en examination may be i	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 candi-								
			Language of assessment: German and/or English									
			credi	table for bonus								
	Additional Inf	ormation	Focus	ses available for stu	udents of the Master's	s programme Informatik	(Computer Science, 120	o ECTS credits): AT,KI,HCI				
	Referred to in	LPO I	§ 22	ll Nr. 3 b)								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 80 / 98

10-I=PEB-182-m01	Performa	formance Engineering and Benchmarking of Computer Systems											
	ECTS 5	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) + Ü (2)									
				Modu	le taught in: English	1	<u>`</u>						
	Method o	of asse	ssment	writte	vritten examination (approx. 90 to 120 minutes)								
	creditable for bonus												
10-I=PRAK-232-	Practical	Practical Course - Current Topics in Computer Science											
m01	ECTS 1	10	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (6)									
				Module taught in: German and English The course is offered in parallel in both German and English.									
	Method o	of asse	ssment	term (	paper (5 to 15 pages	)							
				Langu	lage of assessment	: German and/or Eng	lish						
	Additional Information Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, LR, HCI, GE, SEC, IN												
10-I=SEM3-232-	Seminar 1 - Current Topics in Computer Science												
m01	ECTS 5	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2)									
				Modu The co	ile taught in: Germa ourse is offered in p	n and English arallel in both Germa	n and English.						
	Method o	of asse	ssment	term p	paper (10 to 15 page	s) and presentation (	(30 to 45 minutes) with subseq	equent discussion on a topic from the field of com-					
				puter science									
	Additional Information			Encurses available for students of the Master's programme informatik (Computer Science 400 ECTS credits). AT SE IT VI ES									
	Auditiona	at iiii0i	Πατισπ	LR, H	CI, GE, SEC, IN	uents of the master s	programme mormatik (compt	ilei Science, 12	0 ECT3 (leuits): AT, 3E, 11, KI, E3,				
10-I=SEM4-232-	Seminar	2 - Cur	rent Top	ics in (	Computer Science								
m01	ECTS 5	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2)									
				Modu The co	Module taught in: German and English The course is offered in parallel in both German and English.								
	Method o	of asse	ssment	term	paper (10 to 15 page	s) and presentation (	(30 to 45 minutes) with subseq	uent discussior	on the topic of the seminar				
				Langu	lage of assessment	German and/or Eng	lish		•				
	Additional Information			Focus LR, HO	ses available for stu CI, GE, SEC, IN	dents of the Master's	programme Informatik (Compu	iter Science, 12	o ECTS credits): AT, SE, IT, KI, ES,				

Computer Science (2019) JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019 pag	page 81 / 98

10-l=SSS-232-m01	Secur	ecurity of Software Systems										
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Cours	es		V (2) -	$(2) + \ddot{U}(2)$							
				Modu	le taught in: English	l						
	Methc	od of ass	essment	writte If ann of one date). Langu credit	vritten examination (approx. 60 to 120 minutes) f 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- late). _anguage of assessment: English creditable for bonus							
	Additi	onal Info	ormation	Focus SEC,II	es available for stud N	dents of the Master's programme Informat	tik (Compute	er Science, 120	ECTS credits): SE,KI,LR, HCI, ES,			
	Referred to in LPO I     § 22 II Nr. 3 b)											
10-I=ST-232-m01	Discre	te Event	Simulatio	on								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Cours	es		V (2) + Ü (2)								
	Method of assessment			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								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN								
	Referred to in LPO I			§ 22 II Nr. 3 b)								
10-I=SAR-161-m01	Softw	are Arch	itecture									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate			
	Cours	es		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 candi- date). Language of assessment: German and/or English creditable for bonus								
	Additi	onal Info	ormation	Focus SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES							
	Referr	ed to in	LPOI	§ 22	I Nr. 3 b)							

	INALL W/// where a concentral to Any agong a over year data yeared MANAlamal Little at a	
Computer Science (2019)	JMU Wurzburg • generated 19-Apr-2025 • exam. reg. data record MM[079]- - H 2019	page 82 / 98

Winter Term 2024										
10-l=3D-232-m01	3D Point (	Cloud Proces	sing							
	ECTS 5	Durat	on	1 semester	Method of grading numerical grad	de	Modul level	graduate		
	Courses		V (2)	+ Ü (2)	· · ·		<b>1</b>			
			Modu	ule taught in: English						
	Method o	f assessmen	t   writte   If anr   of on	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)	).		0 1				
			Lang credi	uage of assessment: table for bonus	German and/or English					
	Additiona	l Information	Focu:	ses available for stu	dents of the Master's programme Inf	formatik (Compu	ter Science, 120	ECTS credits): KI,LR,HCI,GE		
10-l=AG-232-m01	Computat	ional Geome	etry							
	ECTS 5	Durat	on	1 semester	Method of grading numerical grad	de	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method o	1 43363511161	lf anr of on date) Lang credi	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						
	Additiona	l Information	Focus AT,H	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,HCI,GE,IN						
	Referred t	o in LPO I	§ 22	II Nr. 3 b)						
10-I=APA-161-m01	Approxim	ation Algori	hms							
	ECTS 5	Durat	on	1 semester	Method of grading numerical grad	de	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method o	f assessmen	t writte If ann of on date) Lang credi	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). Language of assessment: German and/or English creditable for bonus						
	Additiona	l Information	Focu: AT,IT	ses available for stud ,GE	dents of the Master's programme Inf	formatik (Compu	ter Science, 120	DECTS credits):		
	Referred t	o in LPO I	§ 22	II Nr. 3 b)						

Computer Science (2019)       JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019       page 83 / 5	83/98

10-I=AKA-232-m01	Selecte	elected Topics in Algorithms										
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	(2) + Ü (2)							
	Metho	d of ass	essment	a) wri	tten examination (a	pprox. 60 to 120 min	utes) or					
				b) pro	ject work (report (a	pprox. 20 pages) with	presentation (30 to 45 i	minutes) and subsequ	ent discussion on the topic) or			
				c) oral examination of one candidate each (approx. 20 minutes) or								
				a) ora	I) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)							
				credit	able for bonus		1511					
	Additic	onal Info	rmation	Focus AT	es available for stu	dents of the Master's	programme Informatik (	Computer Science, 120	ECTS credits):			
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)							
10-I=A-	Select	ed Topic	s in Embe	edded S	Systems							
KES-232-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) +	V (2) + Ü (2)							
	Method of assessment			<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>								
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.								
	Referred to in LPO I			§ 22    Nr. 3 b)								
10-I=AKH-	Select	ed Topic	s in HCI	-								
CI-232-m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es	•	V (2) -	+ Ü/S (2)			•				
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Additio	onal Info	rmation	Focus	es available for stu	dents of the Master's	programme Informatik (	Computer Science, 120	ECTS credits): HCI.			
	Referred to in LPO I			§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 84 / 98

10-I=AKII-232-m01	Selected	l Topic	s in Comp	outer S	Science							
	ECTS	5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2)	+ Ü/S (2)	•						
	Method	of ass	essment	a) wri	tten examination (a	pprox. 60 to 120 min	utes) or					
				b) pro	pject work (report (a	pprox. 20 pages) with	presentation (30 to 45	minutes) and subsequ	ient discussion on the topic) or			
	c) oral examination of one candidate each (approx. 20 minutes) or											
	Language of assessment: German and/or English											
				credit	table for bonus							
	Referred	to in L	PO I	§ 22	l Nr. 3 b)							
10-I=A-	Selected Topics in Intelligent Systems											
KIS-232-m01	ECTS	5	Duration	ו	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2)	+ Ü (2)	·						
	Method of assessmenta) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the to c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus											
	Addition	al Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informatik (	(Computer Science, 12)	o ECTS credits): KI			
	Referred	to in L	POI	§ 22	l Nr. 3 b)							
10-I=AKIT-232-m01	Selected	l Topic	s in Inter	net Te	chnologies							
	ECTS	5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) ·	+ Ü (2)							
	Method of assessmenta) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on th c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus											
	Addition	al Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informatik (	(Computer Science, 12)	o ECTS credits): IT.			
	Referred	to in L	PO I	§ 22	l Nr. 3 b)							

10-I=A-	Selected Topics in IT Security											
KITS-232-m01	ECTS	5	Duration	1 semester		Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (2) + Ü (2) Module taught in:	V (2) + Ü (2) Module taught in: English							
	Metho	od of ass	sessment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: English</li> <li>creditable for bonus</li> </ul>								
	Addit	ional Inf	ormation	Focuses available ES, SEC	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI, ES, SEC							
	Refer	red to in	LPO I	§ 22 II Nr. 3 b)								
10-I=AKL-	Selec	ted Topi	cs in Aeros	space Engineering								
R-232-m01	ECTS	5	Duration	n 1 semester		Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (2) + Ü (2)	(2) + Ü (2)							
	metri		essment	<ul> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Addit	ional Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.								
	Refer	red to in	LPO I	§ 22 II Nr. 3 b)								
10-I=AK-	Selec	ted Topi	cs in Comp	outer Science and S	ustainal	bility						
NA-232-m01	ECTS	5	Duration	1 semester		Method of grading	numerical grade	Modul level	graduate			
	Cours	es		V (2) + Ü (2) Module taught in: German and/or English								
	Meth	od of ass	sessment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Addit	ional Inf	ormation	Focuses available	for stude	ents of the Master's	programme Informat	ik (Computer Science, 12	eo ECTS credits): IN			
	Refer	red to in	LPO I	§ 22 II Nr. 3 b)								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 86 / 98

10-I=AKT-232-m01	Selecte	Selected Topics in Theory											
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)	•			•				
	Method	d of asse	essment	a) wri	a) written examination (approx. 60 to 120 minutes) or								
				b) pro	b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
				c) ora	) oral examination of one candidate each (approx. 20 minutes) or								
				l angu	anguage of assessment: German and/or English								
				credit	creditable for bonus								
	Additional Information			Focus AT	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):								
	Referred to in LPO I			§ 22	22 II Nr. 3 b)								
10-I=AKDS-232-	Selecte	Selected Topics in Data Science											
m01	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			V (2) -	+ Ü (2)								
				Modu	le taught in: Germa	an and/or English							
	Method of assessment			a) wri	tten examination (a	approx. 60 to 120 min	utes) or	minutes) and subseque	ant discussion on the tania) or				
				c) oral examination of one candidate each (approx. 20 minutes) or									
				d) ora	d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)								
				Langu	Language of assessment: German and/or English								
				creditable for bonus									
	Additio	nal Info	rmation	Focus	Focuses available for students of the Master's programme informatik (Computer Science, 120 ECIS credits): Ki								
	Referre	d to in L	.PO I	§ 22	§ 22 II Nr. 3 D)								
10-I=AGE-232-m01	Selecte	ed Topic	s in Game	es Engi	ineering								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ U (2)								
	Method	d of asse	essment	a) wri	tten examination (a	approx. 60 to 120 min	utes) or	minutas) and subsequ	ant discussion on the tonic) or				
				c) ora	l examination of or	ippiox. 20 pages) with	nrox, 20 minutes) or	, minutes) and subsequ					
				d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)									
				Langu	Language of assessment: German and/or English								
				credit	able for bonus			<u> </u>					
	Additio	nal Info	rmation	Focus	es available for stu	Idents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits): GE.				
	Referre	d to in L	.PO I	§ 22	l Nr. 3 b)								

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 87 / 98

10-I=AK-	Selected Topics in Software Engineering											
SE-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) -	+ Ü (2)	-		1	·			
	Method	ofasse	essment	a) wri	tten examination (a	pprox. 60 to 120 min	utes) or					
				b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
				c) ora	c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of accessment: German and/or English							
				l angi								
				credit	creditable for bonus							
	Addition	nal Info	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE.							
	Referred	l to in L	POI	§ 22	l Nr. 3 b)							
10-LU-	Autonon	nous N	lobile Sys	stems								
RI=AMS-232-mo1	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (4) -	+ Ü (2)							
				Modu	Module taught in: German and/or English							
	Method	ofasse	essment	written examination (approx. 60 to 120 minutes)								
				of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-								
				date).								
				Langu	Language of assessment: German and/or English							
				creditable for bonus								
	Addition	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, ES, LR, GE								
	Referred	l to in L	PO I	§ 22 II Nr. 3 b)								
10-I=LVS-232-m01	Perform	ance E	valuation	of Distributed Systems								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (2) ·	+ U (2)							
	Method	ofasse	essment	writte	n examination (app	rox. 60 to 120 minute	es).	• .• .				
				If ann	ounced by the lectu candidate each (ar	rer at the beginning	of the course, the written	rexamination may be r	eplaced by an oral examination			
				date).								
				Language of assessment: German and/or English								
				creditable for bonus								
	Addition	nal Info	rmation	Focus	es available for stud	dents of the Master's	programme Informatik (	(Computer Science, 120	> ECTS credits):			
				AI,II,	GE,IN							
	Referred	to in L	104	§ 22	I Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 88 / 98

10-I=NLP-212-m01	01 Machine Learning for Natural Language Processing											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)	•		2					
	Method of a	issessment	writte	written examination (approx. 60 to 120 minutes)								
			of on	ounced by the lectu	rer at the beginning (	of the course, the written examination in groups	nation may be i	replaced by an oral examination				
			date)	·		an orat examination in groups		s (approx. 15 minutes per currar				
			Langu	lage of assessment:	German and/or Engl	ish						
	creditable for bonus											
	Additional I	nformation	Focus	ses available for stuc	lents of the Master's	programme Informatik (Compu	iter Science, 120	o ECIS credits): AI,KI,HCI				
	Referred to		§ 22	I Nr. 3 D)								
10-I=PEB-182-m01	Performanc	e Engineerir	ig and	Benchmarking of Co	mputer Systems	· · ·						
	ECIS 5	Duratio	n Ivec N	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) Modu	+ U (2) Ile taught in: English								
	Method of a	issessment	writte	n examination (appi	rox. 90 to 120 minute	s)						
			Langu	Language of assessment: English creditable for bonus								
	Dra atical Ca	C	crean									
10-I=PKAK-232-		Durse - Curre	пстор	ics in Computer Scie	Method of suching			ave duete				
	ECIS 10	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		Modu	ره) Iodule taught in: German and English								
			The c	he course is offered in parallel in both German and English.								
	Method of a	issessment	term paper (5 to 15 pages)									
			Langu	Language of assessment: German and/or English								
	Additional I	nformation	LR, H	LR, HCI, GE, SEC, IN								
10-I=SEM3-232-	Seminar 1 -	Current Top	ics in (	Computer Science								
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
			Modu	Ile taught in: Germar	and English	n and English						
	Mothod of a	scoccmont	torm	paper (10 to 15 page	and procontation (	n and English.	uont discussion	on a tonic from the field of com				
	method of a	issessment	puter	science	s) and presentation (	30 to 45 minutes) with subsequ		ron a topic from the field of com-				
			Langu	lage of assessment:	German and/or Engl	ish						
	Additional I	nformation	Focus LR, H	ses available for stuc CI, GE, SEC, IN	lents of the Master's	programme Informatik (Compu	ter Science, 120	o ECTS credits): AT, SE, IT, KI, ES,				

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 89 / 98

10-I=SEM4-232-	Semina	ar 2 - Cu	rrent Topi	cs in C	Computer Science						
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) Module taught in: German and English The course is offered in parallel in both German and English.							
	Metho	d of ass	essment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on the topic of the seminar Language of assessment: German and/or English							
	Additic	onal Info	ormation	Focus LR, HO	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE, SEC, IN						
10-l=SSS-232-m01	Securit	y of So	ftware Sys	tems							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) + Modu	- Ü (2) le taught in: English	1					
	Metho	d of ass	essment	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: English creditable for bonus							
	Additic	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, ES, SEC,IN							
	Referre	d to in l	LPO I	§ 22 II Nr. 3 b)							
10-l=ST-232-m01	Discret	e Event	Simulatio	ion							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	_	V (2) + Ü (2)							
	Metho	d 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 candi- date). Language of assessment: German and/or English creditable for bonus							
	Additic	onal Info	ormation	Focus IT,KI,E	es available for stud S,GE,IN	dents of the Master's	programme Informatik (Comp	uter Science, 120	ECTS credits):		
	Referre	d to in l	LPO I	§ 22	Nr. 3 b)						

10-I=SAR-161-m01	Softw	Software Architecture												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Cours	es		V (2) +	+ Ü (2)				·					
	Metho	d of ass	essment	writte	written examination (approx. 60 to 120 minutes).									
				If ann	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination									
				of one	e candidate each (a	pprox. 20 minutes) or	an oral examination in group	ps of 2 candidates	s (approx. 15 minutes per candi-					
				l angu	Jage of assessment	: German and/or Engl	ish							
				credit	creditable for bonus									
	Additi	onal Info	ormation	Focus SE,IT,	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,IT,ES									
	Referr	ed to in	LPO I	§ 22	I Nr. 3 b)									
Summer Term 202	ummer Term 2025													
10-l=3D-232-m01	3D Po	int Clou	d Processi	ing	3									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Cours	es		V (2) +	/ (2) + Ü (2)									
				Modu	Module taught in: English									
	Metho	od of ass	essment	writte	n examination (app	prox. 60 to 120 minute	S)							
				of one	of one candidate each (approx, 20 minutes) or an oral examination in groups of 2 candidates (approx, 15 minutes per candi-									
				date).	date).									
				Langu	lage of assessment	: German and/or Engl	ish							
				credit	creditable for bonus									
	Additi	onal Info	ormation	Focus	es available for stu	dents of the Master's	programme Informatik (Com	puter Science, 12	b ECTS credits): KI,LR,HCI,GE					
10-I=AA-152-m01	Advar	iced Aut	omation						r					
	ECIS	8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Cours	es		V (4) +	+ U (2)									
	Metho	od of ass	essment	writte credit	written examination (approx. 60 to 120 minutes) creditable for bonus									
	Additi	onal Info	ormation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): T,IS,ES,LR,GE									
	Referr	ed to in	LPO I	§ 22	I Nr. 3 b)									

10-l=AG-232-m01	Compu	utationa	l Geometr	у	y l							
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (2) ·	/ (2) + Ü (2)							
	Metho	d of ass	essment	writte If ann of one date). Langu credit	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). Language of assessment: German and/or English creditable for bonus							
	Additio	onal Info	ormation	Focus AT,HC	es available for stud I,GE,IN	dents of the Master's programme Informatik (Compu	uter Science, 120	ECTS credits):				
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)							
10-I=APA-161-m01	Appro	kimation	Algorith	ms								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (2) ·	(2) + Ü (2)							
	Metho		essment	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								
	Additio	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE								
	Referre	ed to in l	PO I	§ 22    Nr. 3 b)								
10-I=AKA-232-m01	Select	ed Topic	s in Algo	rithms								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	es		V (2) ·	+ Ü (2)							
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Additio	onal Info	ormation	Focus AT	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT							
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 92 / 98

Selected Topics in Embedded Systems											
ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	2) + Ü (2)							
Metho	d of ass	essment	a) wri b) prc c) ora d) ora Langu credit	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
Additio	onal Info	ormation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES.							
Referre	d to in l	LPO I	§ 22	§ 22 II Nr. 3 b)							
Select	ed Topic	s in HCI									
ECTS	5	Duratio	ı	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	+ Ü/S (2)							
Metho	d of ass	essment	a) wri b) pro c) ora d) ora Langu credit	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
Additio	onal Info	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): HCI.								
Referre	ed to in l	LPO I	§ 22	l Nr. 3 b)							
Selected Topics in Computer Science											
ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	e Modul leve	graduate				
Course	S		V (2) ·	+ Ü/S (2)							
Metho	d of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
	Selecto ECTS Course Method Referre Selecto ECTS Course Method ECTS Course Method ECTS Course Method	Selected Topic         ECTS       5         Courses       Method of ass         Additional Info         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Selected Topic         ECTS       5         Courses         Method of ass         Additional Info         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Referred to in I         Selected Topic         ECTS       5         Courses         Method of ass         Method of ass         Referred to in I	Selected Topics in Embed         ECTS       5       Duration         Courses       Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration         Courses         Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in HCI         ECTS       5         Method of assessment         Additional Information         Referred to in LPO I         Selected Topics in Completion         Courses         Method of assessment         Method of assessment         Referred to in LPO I         Selected Topics in Completion         Referred to in LPO I	Selected Topics in Embedded         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       c) orading         Additional Information       Focus         Referred to in LPO I       § 22 I         Selected Topics in HCI       ECTS         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) process       Courses         Referred to in LPO I       § 22 I         Selected Topics in Computer S       ECTS         ECTS       5       Duration         Courses       V (2)         Method of assessment       a) write         b) process       V (2)         Method of assessment       a) write         b) proces       C orad         c) orad       a) orad         Langue       C orad	Selected Topics in Embedded SystemsECTS5Duration1 semesterCoursesV (2) + Ü (2)Method of assessmenta) written examination b) project work (report c) oral examination in Language of assessme creditable for bonusAdditional InformationFocuses available for second g 22 II Nr. 3 b)Selected Topics in HCI§ 22 II Nr. 3 b)ECTS5Duration1 semester1 semesterCoursesV (2) + Ü/S (2)Method of assessment additional Informationa) written examination of d) oral examination in Language of assessmen creditable for bonusAdditional Information1 semesterCoursesV (2) + Ü/S (2)Method of assessment additional Informationa) written examination of d) oral examination in Language of assessme creditable for bonusAdditional InformationFocuses available for secure available for secureReferred to in LPO I§ 22 II Nr. 3 b)Selected Topics in Computer ScienceECTS5DurationSelected Topics in Computer ScienceECTS5DurationMethod of assessment a) written examination b) project work (report c) oral examination of d) oral examination in Language of assessme creditable for bonusReferred to in LPO I§ 22 II Nr. 3 b)Referred to in LPO I§ 22 II Nr. 3 b)	Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 6o to 120 minutes) or         b) project work (report (approx. 20 pages) with presentation (3; c) oral examination of one candidate each (approx. 20 minutes) d) oral examination in groups of up to 3 candidates (approx. 15)         Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Info         Referred to in LPO I       § 22 II Nr. 3 b)         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 6o to 120 minutes) or         b) project work (report (approx. 20 pages) with presentation (3; c) oral examination of one candidate each (approx. 15)         Courses       V (2) + Ü/S (2)         Method of assessment       a) written examination in groups of up to 3 candidates (approx. 15)         Courses       V (2) + Ü/S (2)         Method of assessment       a) written examination in groups of up to 3 candidates (approx. 15)         Language of assessment: German and/or English creditable for bonus         Additional Information <t< td=""><td>Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade       Modul level         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 12 Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes) and subset c) oral examination of one candidate each (approx. 20 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 14 Referred to in LPO I         Selected Topics in Computer Science       Image of assessment: German and/or English creditable for bonus         Additional Information       1 sem</td></t<>	Selected Topics in Embedded Systems         ECTS       5       Duration       1 semester       Method of grading       numerical grade       Modul level         Courses       V (2) + Ü (2)         Method of assessment       a) written examination (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 12 Referred to in LPO I         Selected Topics in HCI         ECTS       5         Duration       1 semester         Method of assessment       a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes) and subset c) oral examination of one candidate each (approx. 20 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subset c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus         Additional Information       Focuses available for students of the Master's programme Informatik (Computer Science, 14 Referred to in LPO I         Selected Topics in Computer Science       Image of assessment: German and/or English creditable for bonus         Additional Information       1 sem				

10-I=A-	Sele	ected 1	Topics	in Intell	igent S	gent Systems							
KIS-232-m01	ECTS	S 5		Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate	
	Cou	rses	·		V (2) +	· Ü (2)					-		
	Met	hod of	fasses	sment	a) written examination (approx. 60 to 120 minutes) or								
					<ul> <li>b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>creditable for bonus</li> </ul>								
	Add	itiona	l Inforr	nation	Focuse	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI							
	Refe	erred t	o in LP	01	§ 22	Nr. 3 b)							
10-I=AKIT-232-m01	Sele	ected 1	Topics	in Interr	et Tec	hnologies							
	ECTS	S 5		Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate	
	Cou	rses			V (2) +	· Ü (2)							
	Met	hod of	fasses	sment	a) written examination (approx. 60 to 120 minutes) or b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
					c) oral examination of one candidate each (approx. 20 minutes) or								
					d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)								
					Language of assessment: German and/or English creditable for bonus								
		•.•			credita	able for bonus		C -1 - 1 - 1					
	Add	itiona	l Inforr	nation	rocuses available for students of the Master's programme informatik (Computer Science, 120 ECIS credits): II.								
	Refe	erred t	o in LP	01	§ 22 II Nr. 3 b)								
10-I=A-	Sele	ected 1	Topics	in IT Sec	urity								
KIIS-232-m01	ECTS	S 5		Duration		1 semester	Meth	od of grading	g numerical grad	le	Modul level	graduate	
	Cou	rses			V (2) + Ü (2) Module taught in: English								
	Met	hod of	fasses	sment	a) writ	ten examination	(approx.	60 to 120 mi	nutes) or				
					b) proj	ject work (report	(approx.	20 pages) wi	th presentation (	30 to 45 minute	es) and subsequ	ient discussion on the topic) or	
					c) oral examination of one candidate each (approx. 20 minutes) or								
					d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)								
					creditable for bonus								
	Add	itiona	l Inforr	nation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE, KI, LR, HCI,								
	Refe	erred t	o in LP	01	§ 22	Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 94 / 98

10-I=AKL-	Selected Topics in Aerospace Engineering										
R-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)				-			
	Method of asse	essment	a) wri	tten examination (a	approx. 60 to 120 mini	ıtes) or					
			b) pro	oject work (report (a	pprox. 20 pages) with	presentation (30 to 4	5 minutes) and subsequ	ent discussion on the topic) or			
			c) ora	c) oral examination of one candidate each (approx. 20 minutes) or							
			l angi	a examination in gr	• German and for Engl	iales (approx. 15 mmi ich	lies per candidate)				
			credit	creditable for bonus							
	Additional Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informati	k (Computer Science, 120	o ECTS credits): LR.			
	Referred to in L	PO I	§ 22	II Nr. 3 b)							
10-I=AKT-232-m01	Selected Topic	s in Theo	ry								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)							
	Method of asse	essment	a) written examination (approx. 60 to 120 minutes) or								
			b) project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or								
			c) ora	c) oral examination of one candidate each (approx. 20 minutes) or							
			l angi	lage of assessment	lies per canuluale)	indidate)					
			credit	creditable for bonus							
	Additional Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informatil	k (Computer Science, 120	o ECTS credits):			
			AT								
	Referred to in LPO I		§ 22 II Nr. 3 b)								
10-I=AGE-232-m01	Selected Topic	Selected Topics in Games Engineering									
	ECTS 5	Duratio	<u>n</u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (2)	+ Ü (2)							
	Method of asse	essment	a) written examination (approx. 60 to 120 minutes) or								
			b) pro	oject work (report (a	pprox. 20 pages) with	presentation (30 to 4	<sub>1</sub> 5 minutes) and subsequ	ent discussion on the topic) or			
			c) oral examination of one candidate each (approx. 20 minutes) or								
			l angi	iage of assessment	• German and/or Engl	ish	iles per canuldate)				
			credit	table for bonus		1511					
	Additional Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informati	k (Computer Science, 120	o ECTS credits): GE.			
	Referred to in LPO I		§ 22	ll Nr. 3 b)							

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 95 / 98

10-I=AK-	Selected Topics in Software Engineering									
SE-232-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)	•					
	Method of as	sessment	a) wr	itten examination (a	approx. 60 to 120 mir	utes) or				
			b) pro	oject work (report (a	approx. 20 pages) wit	h presentation (30 to 45	; minutes) and subsequ	ent discussion on the topic) or		
			c) ora	c) oral examination of one candidate each (approx. 20 minutes) or						
			l ang	liage of assessmen	t. German and/or Eng	lish	les per canuldale)			
			credi	creditable for bonus						
	Additional Inf	ormation	Focus	ses available for stu	Idents of the Master's	s programme Informatik	(Computer Science, 120	o ECTS credits): SE.		
	Referred to in	LPO I	§ 22	ll Nr. 3 b)						
10-I=LVS-232-m01	Performance	Evaluation	of Dis	stributed Systems						
	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method of as	sessment	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-							
			Language of assessment: German and/or English							
			creditable for bonus							
	Additional Inf	ormation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):							
			AT,IT,GE,IN							
	Referred to in LPO I		§ 22 II Nr. 3 b)							
10-I=NLP-212-m01	Machine Lear	ning for N	atural	Language Processi	ng					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method of as	sessment	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							
			or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)							
			Lang	Language of assessment: German and/or English						
			credi	table for bonus						
	Additional Inf	ormation	Focus	ses available for stu	udents of the Master's	s programme Informatik	(Computer Science, 120	p ECTS credits): AT,KI,HCI		
	Referred to in LPO I		§ 22	ll Nr. 3 b)						

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 96 / 98

10-I=PEB-182-m01	Performance Engineering and Benchmarking of Computer Systems											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2)	+ Ü (2)				_				
			Modu	le taught in: Englisi	1							
	Method of as	sessment	writte	written examination (approx. 90 to 120 minutes) Language of assessment: English creditable for bonus								
			credit									
10-I=PRAK-232-	Practical Course - Current Topics in Computer Science											
m01	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (6)	•			•	*				
			Modu	Ile taught in: Germa	n and English	n and English						
	Mathadafaa	coccmont	torm	ourse is offered in p	arallel in both Germa	in and English.						
	method of as	sessment	Langu	lage of assessment	; German and/or Engl	lish						
	Additional In	formation	Focus	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES,								
	LK, HU, GE, SEC, IN											
10-I=SEM3-232-	Seminar 1 - Current Topics in Computer Science											
11101	ECTS 5	Duratio	n La ( )	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses 5 (2) Module taught in: German and English											
			The c	ourse is offered in p	arallel in both Germa	el in both German and English.						
	Method of as	sessment	term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion on a topic from the field of com-									
			puter	science		iah						
			Language of assessment: German and/or English									
	Additional in	formation	LR, H	CI, GE, SEC, IN	dents of the Master's	programme informatik (Compl	iter Science, 12	0 ECTS credits): AT, SE, IT, KI, ES,				
10-I=SEM4-232-	Seminar 2 - C	Current Top	oics in (	Computer Science								
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2)									
			Module taught in: German and English									
			The c	The course is offered in parallel in both German and English.								
	Method of as	sessment	Langu	paper (10 to 15 page Jage of assessment	: German and/or Eng	30 to 45 minutes) with subseq lish	uent discussior	n on the topic of the seminar				
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT, SE, IT, KI, ES, LR, HCI, GE, SEC, IN									

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 97 / 98

10-l=SSS-232-m01	mo1 Security of Software Systems													
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses				+ Ü (2)	· · · ·	·							
				Modu	le taught in: English	1								
	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 of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minute date). Language of assessment: English creditable for bonus													
	Additio	onal Info	ormation	Focus SEC,II	cuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): SE,KI,LR, HCI, E C,IN									
	Referre	ed to in l	PO I	§ 22	l Nr. 3 b)									
10-l=ST-232-m01	Discre	te Event	Simulatio	on										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	es		V (2) + Ü (2)										
	If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minut date). Language of assessment: German and/or English creditable for bonus													
	Additional Information			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN										
	Referred to in LPO I		§ 22 II Nr. 3 b)											
10-I=SAR-161-m01	Software Architecture													
	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	es		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 a of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 date). Language of assessment: German and/or English creditable for bonus													
	Additio	onal Info	ormation	Focus SE,IT,	es available for stud ES	dents of the Master's programme Informatik (Co	mputer Science, 120	o ECTS credits):						
	Referre	ed to in l	_PO I	§ 22	I Nr. 3 b)									

Computer Science (2019)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record MM 079 - - H 2019	page 98 / 98