



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Aerospace Computer Science as a Master's with 1 major with the degree "" (120 ECTS credits)

, ,	of Mathematics and Computer Science e of Computer Science	Examination regulations version: 2025 Examination regulations version: 2025							
Abbreviations used:	Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = p = lecture	project, S = seminar, T = tutorial, Ü = exercise, V							
	Term: SS = summer semester, WS = winter semester								
Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-s = list of modules									
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)								
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be o ditable for bonus.	offered every semester and modules are not cre-							
Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordi thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will commu customary manner.									
	Should a module comprise more than one graded assessment, all assessments will be equally we	eighted, unless otherwise stated below.							

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASPO2015

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

??-???-2025 (2025-??)

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	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level					
	Courses		To be spe	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	ssessm	ent									
	Only after su completion of		Il if applica	if applicable								
	Other prereq	uisites	if applica	ıble								
	Participants on of places		ocati- if applica	ble								
	Additional in	formati	on if applica	ıble								
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)						

Electives Field (90	ECTS credits)										
Seminars (5 ECTS o	redits)										
10-Lu-	Seminar 1 - Current Topics in Aerospace Computer Science										
RI=SEM1-232-m01	ECTS 5	Duratio	n 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) Module	S (2) Module taught in: German and/or English							
	Method of ass	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							
10-Lu-	Seminar 2 - C	urrent Top	ics in Ae	erospace Comput	er Science						
RI=SEM2-232-mo1	ECTS 5	Duratio	n 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) Module taught in: German and/or English							
	Method of ass	sessment		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							
Aerospace Comput	er Science (20	ECTS cred	its)								
10-LURI=S-	Spacecraft Sy	stem Ana	lysis								
SA-232-m01	ECTS 10	Duratio	n 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (4) + Ü (2) Module taught in: English								
	Method 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: English creditable for bonus								
	Additional Inf	ormation	Focuse	s available for st	udents of the Master's	programme Informat	ik (Computer Science, 12	o ECTS credits): ES, LR			
	Referred to in	LPO I	§ 22	Nr. 3 b)							
10-LURI=IR-	Intelligent Ro	cket Prop	ulsion Sy	ystems							
P-252-m01	ECTS 5	Duratio	n 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			e taught in: Germ	an and/or English						
	Method of ass	sessment	If anno of one date). Langua	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-							

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 3 / 22

10-I=DRLIS-	Deep Rei	nforcemen	t Learni	arning for Intelligent Space Systems							
S-252-m01	ECTS 5	Dur	ation	1 semester	Method of grading nun	nerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: German and/or English							
	Method o	f assessm	lf a of da Lai	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-LURI=GRF-	Orbital M	echanics									
M-232-m01	ECTS 1	o Dur	ation	1 semester	Method of grading num	nerical grade	Modul level	graduate			
	Courses		V (/ (4) + Ü (2)							
	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 subsequent discussion on the topic) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
10-LURI=S-	Space Dy										
D-202-m01	ECTS 5	Dur	ation	1 semester	Method of grading num	nerical grade	Modul level	graduate			
	Courses			V (2) + Ü (2) Module taught in: English							
	Method c	f assessm	lf a of da Lai	written examination (approx. 90 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							
10-LURI=AS-	Advanced	Sensory	Systems	and Sensor Data Pro	cessing						
S-202-m01	ECTS 5	Dur	ation	1 semester	Method of grading nun	nerical grade	Modul level	graduate			
	Courses			2) + Ü (2) odule taught in: Germa	an and/or English						
	Method of assessment			written examination (approx. 90 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							

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 4 / 22

10-LU-	Satellite Image processing									
RI=SBV-232-mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	_		V (4) + Ü (2) Module taught in: German and/or English						
	Method of ass	essment	If ann of one date). Langu	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						
	Referred to in I	PO I	§ 22	22 ll Nr. 3 b)						
10-LURI=F-	Flight Control									
CS-252-m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (2) lle taught in: Germa	n and/or English					
	Method of ass		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-LURI=F-	Flight Guidanc	_								
G-252-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) + Ü (2) Module taught in: German and/or English							
	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							
10-LURI=SL-	Selected Topic	s in Aero	space	Computing						
R-232-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (2) + Ü (2) Module taught in: German and/or English						
	Method of ass	essment	b) pro c) ora d) ora Langu	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						
Master's with 1 major Ae	rospace Computer Scie	ence (2025)				JMU Würzburg • generated 19	-Apr-2025 • exam. reg. data r	ecord 88 f25 - - H 2025	page 5 / 22	

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 5 / 22

Robotics and Telen	natics (20	ECTS	credits)							
10-LU-	Robotics	51								
RI=R01-232-m01	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses				+ Ü (2)		·			
				Module taught in: German and/or 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: German and/or English creditable for bonus						
	Addition				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE					
	Referred		.PO I	§ 22	l Nr. 3 b)					
10-LU-	Robotics									
RI=RO2-232-mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (4) + Ü (2) + P (1) Module taught in: German and/or 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: German and/or English creditable for bonus						
	Addition	al Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI, ES, LR, HCI, GE						
	Referred	to in L	.PO I	§ 22 II Nr. 3 b)						
10-LU-	Autonon	nous N	lobile Sy	stems						
RI=AMS-232-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			V (4) + Ü (2) Module taught in: German and/or 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: German and/or English creditable for bonus						
	Addition					dents of the Master's	programme Informatik (Co	omputer Science, 120	DECTS credits): IT, KI, ES, LR, GE	
	Referred	to in L	.PO I	§ 22	I Nr. 3 b)					

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 6 / 22
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10-LU-	3D Po	oint Cloud	Processi	ng								
RI=3D-202-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses	-		V (2) + Ü (2) Module taught in: German and/or English							
	Meth	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								
10-LURI=PHO-	Phot	Photogrammetric Machine Vision										
TO-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses			V (2) + Ü (2) Module taught in: German and/or 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: German and/or English creditable for bonus								
	Refer	rred to in L	.PO I	§ 22 Nr. 3 b)								
10-I=TSD-232-m01	Telec	communic	ation Sys	lems								
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		V (4) + Ü (2) Module taught in: German and/or English								
	Meth	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								
	Addit	tional Info	rmation	Focus	es available for stuc	lents of the Master's	programme Informatik (Compu	ter Science, 120	D ECTS credits): LR			
	Refer	rred to in L	.PO I	§ 22	Nr. 3 b)							

10-LURI=SR-	Selecte	ed Topic	s in Robo	t <mark>ics a</mark> n	d Telematics				
T-232-m01	ECTS	5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (2) + Ü (2) Module taught in: German and/or English					
	Metho	d of ass		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					
10-l=RRS-232-m01	Remot	e Sensiı	ng						
	ECTS	5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (2) + Ü (2) Module taught in: German and/or 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: German and/or English creditable for bonus					
	Additic	onal Info	ormation	possible majors for MA 120 Computer Science: LR,IN					
	Referred to in LPO I			§ 22 II Nr. 3 b)					
10-l=QC-261-m01	Quantu	um Com	municatio	ins					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S		V (2) + Ü (2) Module taught in: German and/or English					
	Metho	d of ass		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	es available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits): LR
	Referre	ed to in l	LPO I	§ 22	l Nr. 3 b)				

Practica Aerospace	Practica Aerospace Computer Science (20 ECTS credits)										
10-LURI=R-	Space	System	s Design								
SE-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			R (8) Modu	R (8) Module taught in: German and/or English						
	Metho	d of ass	essment	Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered						
10-LURI=EP-	Desigr	of Plan	etary Bas	ses and	es and Orbital Stations						
B-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		R (8) Modu	lle taught in: Germa	n and/or English					
	Metho	d of ass	essment	Langu	oject report (10 to 15 pages) and presentation of project (15 to 30 minutes) nguage of assessment: German and/or English sessment offered: In the semester in which the course is offered						
10-LU-	Practio	al cours	e - Space	Techn	ology						
RI=PRT-232-mo1	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			P (8) Modu	lle taught in: Germa	n and/or English					
	Metho	d of ass	essment	place Langı	placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) Language of assessment: German and/or English						
10-LURI=FZ-	Aircraf	t Constr	uction								
B-232-m01	ECTS	10	Duratio	n	2 semester	Method of grading numerical grade	Modul level	graduate			
	Course	25		R (8) Module taught in: German and/or English							
	Metho	d of ass	essment	Langu	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus						
10-LURI=F-	Flight	Simulat	or								
SIM-232-m01	ECTS	10	Duratio	n	2 semester	Method of grading numerical grade	Modul level	graduate			
	Course	2S		R (8) Module taught in: German and/or English							
	Metho	d of ass	essment	project report (10 to 15 pages) and presentation of project (15 to 30 minutes) Language of assessment: German and/or English creditable for bonus							

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 9 / 22

10-LU-	UAS C	UAS Operations										
RI=UAS-252-mo1	ECTS	10	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		R (8) Modu	R (8) Module taught in: German and/or English							
	Metho	od of ass	essment	Langu	roject report (10 to 15 pages) and presentation of project (15 to 30 minutes) anguage of assessment: German and/or English reditable for bonus							
10-LURI=P-	Practi	cal Robo	tics and 1	Felema	tics							
TEL-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		P (8) Modu	lle taught in: Germa	an and/or English						
	Metho	od of ass	essment		port on practical course (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic nguage of assessment: German and/or English							
10-LURI=TD-	Team	Design F	Project									
P-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		R (8) Modu	R (8) Module taught in: German and/or English project work (report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic)							
	Metho	od of ass	essment			orox. 20 pages) with p t: German and/or Eng		inutes) and subsequen	t discussion on the topic)			
10-LURI=FD-	FloatSat Design Lab											
W-232-m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		R (8) Module taught in: German and/or English								
	Metho	od of ass	essment	20 pa	Practical project: development, construction and presentation of a satellite control system (project documentation (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) Language of assessment: German and/or English							
10-I=TEL-232-m01	Teleco	ommunic	ation Sys	tems l	tems Lab							
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		R (8) Module taught in: German and/or English								
				b) ora c) rep Langu	a) oral examination of one candidate each (approx. 20 minutes) or b) oral examination in groups (max. 3 candidates, approx. 15 minutes each) or c) report (4 to 8 pages) Language of assessment: German and/or English							
	Additi	onal Info	ormation	Focus	ses available for stu	udents of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): LR			

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 10 / 22

10-LU-	Embe	dded Sys	stems in R	Robotics and Space Technology							
RI=ESRR-232-mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		R (8) Modu	R (8) Module taught in: German and/or English						
	Metho	od of ass	essment	pages	Practical project: development, construction and presentation of an embedded system (project documentation (approx. 20 bages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) anguage of assessment: German and/or English						
10-I=IPW-232-m01	Intern	ational I	Project Wo	orksho	р			·			
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		R (6) Modu	le taught in: English	h					
	Metho	od of ass	essment	b) pra on on c) ora d) ora	a) written examination (approx. 60 to 90 minutes) or b) practical project (project documentation (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussi- on 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: English						
	Addit	ional Info	ormation	Proje	Project will be block taught, 4 - 6 weeks						
Computer Science	and Ap	plication	s (15 ECT	S credi	ts)						
10-l=AG-232-m01	Computational Geometry										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Cours	es		V (2) ·	+ Ü (2)						
	Method of assessment			lf ann of one date) Langu	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	ional Info	ormation		es available for stu I,GE,IN	dents of the Master's	s programme Informatik (Comp	uter Science, 12	o ECTS credits):		
	Referr	ed to in	LPO I	§ 22	I Nr. 3 b)						

10-l=DB2-242-m01	Databa	Databases 2										
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S			$V(2) + \ddot{U}(2)$							
					Module taught in: German and/or English							
	Method	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								
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date)							
				Langu	arej. anguage 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 Informatik (Compu	uter Science, 12	o ECTS credits): SE, KI, HCI				
	Referre	d to in l	_PO I	§ 22	l Nr. 3 b)							
10-I=DM-232-m01	Data S	cience										
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) -	+ Ü (2)							
	Method	d of ass	essment			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) 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	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, KI, HCI, GE,								
				SEC, IN								
10-I=APR-252-m01	Advanc	ed Prog	gramming									
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (2) + Ü (2)								
	Method	d of ass	essment			rox. 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 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			dents of the Master's programme Informatik (Compu	uter Science, 12	o ECTS credits): SE, KI, LR, HCI,				
				ES, GI	E, SEC, IN							

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 12 / 22

10-l=SSS-232-m01	Security of So	oftware Sy	stems							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			$(2) + \ddot{U}(2)$						
				Nodule taught in: English						
	Method of as	sessment	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: English creditable for bonus						
	Additional Inf	ormation	Focus SEC,I		Idents of the Master'	s programme Informatik (C	Computer Science, 120	o ECTS credits): SE,KI,LR, HCI, ES,		
	Referred to in	LPO I	§ 22	I Nr. 3 b)						
10-HCI=M-	Multimodal U	ser Interfa	ces							
MUI-161-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ Ü (2)						
	Method of ass	sessment	presentation of project results (approx. 40 minutes) Language of assessment: German and/or English creditable for bonus							
	Additional Inf	ormation	Focus	ses available for stu	Idents of the Master'	s programme Informatik (C	Computer Science, 120	o ECTS credits): HCI,GE.		
	Referred to in	LPO I	§ 22 II Nr. 3 b)							
10-l=ES-231-m01	Embedded Systems									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2) + Ü (2) Module taught in: German and/or 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: German and/or English creditable for bonus							
	Additional Inf	ormation		ses available for stu ,ES,LR,GE	Idents of the Master'	s programme Informatik (C	Computer Science, 120	o ECTS credits):		
	Referred to in	LPO I	§ 22	l Nr. 3 b)						

10-I=V-	Virtual	Prototy	ping of E	mbedd	led Systems						
PES-232-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + Ü (2) Module taught in: German and/or English						
	Methoo	l of ass	essment	If ann of one date). Langu	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	rmation	Focus	ocuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES						
	Referre	d to in L	PO I	§ 22	II Nr. 3 b)						
10-AI=IAI-242-m01	Introdu	iction in	Al						~		
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + Ü (2) Module taught in: German and/or English						
	Methoo	l 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							
	Referre	d to in L	PO I	§ 22	II Nr. 3 b)						
10-I=SKS-252-m01											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	-	_		+ Ü (2)						
	Methoo	l 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	nal Info	rmation	Focus	ses available for stu	dents of the Master's	programme Informatik	(Computer Science, 120	ECTS credits): IT, ES, LR, IN		

10-I=LVS-232-m01	Performance Evaluation of Distributed Systems											
	ECTS	5	Duratior	n 1 semester	Method of grading numeric	al grade	Modul level	graduate				
	Courses	,	1	V (2) + Ü (2)	$\sqrt{(2) + \ddot{U}(2)}$							
	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								
	Additior	nal Info		Focuses available for AT,IT,GE,IN	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,GE,IN							
	Referred	l to in l	LPO I	§ 22 II Nr. 3 b)								
10-l=SB-252-m01	Systems Benchmarking											
	ECTS	5	Duratior	n 1 semester	Method of grading numeric	al grade	Modul level	graduate				
	Courses	,		V (2) + Ü (2)			·	-				
				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): SE, IT, ES, HCI, GE, IN								
	Referred	l to in l	LPO I	§ 22 Nr. 3 b)								
10-l=ST-232-m01	Discrete	• Event	Simulatio	on								
	ECTS	5	Duratior	n 1 semester	Method of grading numeric	al 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								
	Additior	nal Info		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,KI,ES,GE,IN								
				§ 22 Nr. 3 b)								

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 15 / 22

10-I=SNA-232-m01	Sta	tistica	al Netv	vork Ana	lysis							
	EC	TS 5		Duratio	ı	1 semester	Method of grading numerical	grade	Modul level	graduate		
	Со	urses				V (2) + Ü (2)						
						Module taught in: English						
	Me	thod o	of asse	essment			rox. 60 to 120 minutes).	a the written even	ination may be	replaced by an availay amination		
										replaced by an oral examination s (approx. 15 minutes per candi-		
					date). Language of assessment: English							
		1	11.0			creditable for bonus						
					n Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IN							
10-I=MLN1-232- m01				ing for Ne		r						
11101	EC			Duration		1 semester	Method of grading numerical	grade	Modul level	graduate		
	Co	urses				/ (2) + Ü (2) Nodule taught in: English						
	Ma	thada	face	comont			rox. 60 to 120 minutes)					
	Method of assessment							se, the written exam	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-							
					date).							
						Language of assessment: English creditable for bonus						
	۸d	dition	llnfo	mation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,SE,KI,HCI,IN							
					§ 22 Il Nr. 3 b)							
				-	9221	I NI. 3 D)						
		<u> </u>				. comostor	Mathad of grading numerical	arada	Madullaval	graduata		
				Duration			Method of grading numericat	grade	Modul level	graduate		
		urses					1					
	Mo	thod c	fasse	scment								
	Mic	thou t	1 4350	.55mem				se, the written exam	ination may be	replaced by an oral examination		
					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-							
							F 11 1					
							: English					
10-xtAl=CV-202- m01	Additional Information Referred to in LPO I Computer Vision ECTS 5 Duratio Courses Method of assessment				Langu credit Focus § 22 I V (2) - Modu Writte If ann of one date). Langu	age of assessment able for bonus es available for stu I Nr. 3 b) 1 semester + Ü (2) le taught in: English en examination (app ounced by the lectu e candidate each (a	dents of the Master's programm Method of grading numerical n prox. 60 to 120 minutes) prox. 60 to 120 minutes) prox. 20 minutes) or an oral exa	grade se, the written exam	Modul level	graduate replaced by an oral examinat		

10-I=IP-222-m01	Image Processing and Computational Photography												
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	_		+ Ü (2)								
					le taught in: English								
	Method	d of asse	essment			rox. 60 to 120 minute							
				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).									
				Langu	Language of assessment: English								
			÷	credit	able for bonus								
		d to in L		-	l Nr. 3 b)								
10-I=PCV-232-m01	Practic	al Comp	outer Visio	on									
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		R (8)									
				Module taught in: German and/or English									
	Method	d of asse	essment	a) placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) or									
				b) 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).	date).								
					Language of assessment: German and/or English creditable for bonus								
	A 1 1												
					Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI,LR;HCI								
10-I=PIP-232-m01					tational Photograph	-	Г	1	· · · ·				
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		· · ·									
	NA - 41			Module taught in: German and/or English									
	Method	a of asse	essment	a) placement report (10 to 15 pages) and presentation of results (15 to 30 minutes) or									
				b) 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									
				ofone	e candidate each (ar				a (approx. 15 minutes per candi-				
				date).									
					lage of assessment: able for bonus	German and/or Eng	lish						
				redit	able for borius								

10-I=AKA-232-m01	Selected Topics in Algorithms												
	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	tten examination	(approx. 60 to 120 min	utes) or						
								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 3 candidates (approx. 15 minutes per candidate) Language of assessment: German and/or English								
				creditable for bonus									
	Additio	onal Info	rmation		ses available for s	tudents of the Master's	programme Informatik (Computer Science, 120	ECTS credits):				
				AT									
		d to in L	-	-	l Nr. 3 b)								
10-I=AKT-232-m01		ed Topic	s in Theo	ry									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			• • •	+ Ü (2)								
	Method	d 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) 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	nal Info	rmation	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits):									
				AT									
	Referred to in LPO I			§ 22 II Nr. 3 b)									
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				
	Course	S		V (2) + Ü (2)									
	Method	d 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) 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)									
						nt: German and/or Eng		es per canuluale)					
					able for bonus								
	Additio	nal Info	rmation	Focus	es available for s	tudents of the Master's	programme Informatik (Computer Science, 120	ECTS credits): SE.				
	Referre	d to in L	.PO I		l Nr. 3 b)		· - · ·	· · ·					

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 18 / 22

10-I=A-	Selected Topics in IT Security												
KITS-232-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ Ü (2) Jle taught in: Engl	ish			_				
	Methoo	l 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: English creditable for bonus									
	Additio	nal Info	ormation	Focus ES, S		tudents of the Master's	programme Informati	k (Computer Science, 12	o ECTS credits): SE, KI, LR, HCI,				
	Referre	ed to in l	lpo i	§ 22	ll Nr. 3 b)								
10-I=AKIT-232-m01		ed Topic	s in Inter	net Te	chnologies								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		V (2) + Ü (2)									
				 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			Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.									
	Referred to in LPO I			§ 22 II Nr. 3 b)									
10-I=A-	Selecte	ed Topic	s in Intel	ligent	gent Systems								
KIS-232-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2)	+ Ü (2)								
	Method	l 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			l cieui	Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI								
	Additio	nal Info	ormation			tudents of the Master's	programme Informati	ik (Computer Science, 12	o ECTS credits): KI				

Master's with 1 major Aerospace Computer Science (2025)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 f25 - - H 2025	page 19 / 22

	Selecte	Selected Topics in Embedded Systems												
KES-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	5		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) 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	nal Info	rmation	Focus	es available for stu	udents of the Master's	programme Informatik	(Computer Science, 12	o ECTS credits): ES.					
	Referred	d to in L	.PO I	§ 22	l Nr. 3 b)									
10-I=AKL-	Selecte	d Topic	s in Aeros	space l	Engineering									
R-232-m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	5	<u> </u>	V (2) -	+ Ü (2)			°						
					 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 									
						t: German and/or Eng	ISh							
	Addition	nal Info	rmation	credit	able for bonus		programme Informatik	(Computer Science, 12	o ECTS credits): LR.					
	Addition Referred			credit Focus	able for bonus			(Computer Science, 12	o ECTS credits): LR.					
		d to in L	.PO I	credit Focus	able for bonus es available for stu			(Computer Science, 12	o ECTS credits): LR.					
	Referred Selecte	d to in L	.PO I	credit Focus § 22 l	able for bonus es available for stu		programme Informatik ((Computer Science, 12 Modul level	o ECTS credits): LR. graduate					
10-1=AKH- CI-232-m01	Referred Selecte	d to in L d Topic 5	PO I s in HCI	credit Focus § 22 l	able for bonus es available for stu I Nr. 3 b)	udents of the Master's	programme Informatik (· · · · · · · · · · · · · · · · · · ·						
	Referred Selecte ECTS Courses	d to in L d Topic 5	PO I s in HCI Duratior	credit Focus § 22 l V (2) - a) wri b) pro c) ora d) ora Langu	able for bonus es available for stu I Nr. 3 b) 1 semester + Ü/S (2) tten examination (ject work (report (l examination of or l examination in gu	Method of grading approx. 60 to 120 min approx. 20 pages) with ne candidate each (ap	programme Informatik (numerical grade utes) or presentation (30 to 45 prox. 20 minutes) or dates (approx. 15 minute	Modul level minutes) and subsequ						
	Referred Selecte ECTS Courses	d to in L d Topic 5 of asse	PO I s in HCI Duration	credit Focus § 22 l V (2) - a) wri b) pro c) ora d) ora Langu credit	able for bonus es available for stu I Nr. 3 b) 1 semester + Ü/S (2) tten examination (a ject work (report (a l examination of or l examination in g uage of assessmen able for bonus	Method of grading Approx. 60 to 120 min approx. 20 pages) with ne candidate each (ap roups of up to 3 candid t: German and/or Eng	programme Informatik (numerical grade utes) or presentation (30 to 45 prox. 20 minutes) or dates (approx. 15 minute	Modul level minutes) and subsequ es per candidate)	graduate ent discussion on the topic) or					

10-I=AKII-232-m01	Sele	Selected Topics in Computer Science												
	ECTS 5 Du				۱	1 semester	Method	of grading numerical grad	de	Modul level	graduate			
	Coui	rses			V (2)	+ Ü/S (2)								
	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 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 									
			to in L	-	-	l Nr. 3 b)								
10-I=AKDS-232-	Sele	cted	l Topics	s in Data	Sciend	ce								
m01	ECTS 5 Duratio			Duratior		1 semester	Method	of grading numerical grad	de	Modul level	graduate			
	Courses					V (2) + Ü (2) Module taught in: German and/or English								
	Method of assessment			ssment	 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				Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): KI									
	Refe	rred	to in L	POI	§ 22 II Nr. 3 b)									
10-LURI=AK-	Selected Topics in Physics 1													
P1-232-m01	ECTS	5 !	5	Duratior	า	1 semester	Method	of grading numerical grad	de	Modul level	graduate			
	Courses				V (2) + Ü (2) Module taught in: German and/or English									
	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 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 									

10-LURI=AK-	Selected Topics in Physics 2											
P2-232-m01	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		V (4) + Modu	+ Ü (2) le taught in: Germar	n and/or English			-			
	Metho	d of ass		b) pro c) ora d) ora Langu	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							
10-LURI=A-	Select	ed Topic	s in Astro	nomy	and Astrophysics	,						
KAA-232-m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		V (2) - Modu	+ Ü (2) le taught in: Germar	n and/or English						
	Metho	d of ass		 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 								
Master Project Mo	dules (3	o ECTS o	credits)									
10-LURI-MA-	Conclu	iding Co	lloquium /	Aerosp	ace Computer Scier	nce						
MK-212-m01	ECTS	5	Duration	l	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		K (o)								
	Metho	d of ass	essment	final colloquium (approx. 60 minutes) Language of assessment: German and/or English								
10-LURI-MA-202-	Maste	r's Thes	is Aerospa	ice Computer Science								
m01	ECTS	25	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s			urses assigned to m							
	Metho	d of ass	essment		r's thesis (50 to 100 age of assessment:	pages) German and/or Eng	lish					
	Additio	onal Info	ormation	Time t	o complete: 6 mont	hs						