



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Aerospace Computer Science as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Computer Science Examination regulations version: 2015 Examination regulations version: 2015

Abbreviations used:	Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture								
	Term: SS = summer semester, WS = winter semester								
	Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed								
	Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules								
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)								
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus.								
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.								
	Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.								
	Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.								

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

ASPO2015

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

03-Aug-2015 (2015-76)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

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

Compulsory Course	es (130 E	CTS cre	dits)							
Aerospace Science	and Eng	gineering	g (35 ECT	S credi	ts)					
10-I-ELRS-152-m01	Introdu	iction to	Aerospa	ce Sys	tems					
	ECTS	6	Duratior		2 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			. ,	+ Ü (1) + V (2) + Ü (1)					
				lf ann of one credit	written examination (approx. 180 to 240 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. 30 minutes). creditable for bonus					
10-I-LRBE-152-m01	Operat	ions of A	Aerospac	e Syste	ems			u		
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course			V (4) +						
				lf ann of one credit	written examination (approx. 180 to 240 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. 30 minutes). creditable for bonus					
10-I-LRDN-152-m01	Dynamics of aerospace systems									
	ECTS	6	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	-		V (2) + Ü (2)						
	Methoo	d of asse	essment	written examination (approx. 180 to 240 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. 30 minutes). creditable for bonus						
10-I-BDV-152-m01	On boa	rd data	processir	ıg						
	ECTS	8	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V (4) +	⊦Ü (2)					
	Methoo	d of asse	essment	written examination (approx. 120 minutes) and approx. 6 practical exercises (approx. 4 hours each), weighted 1:1 creditable for bonus						
10-I-LMT-152-m01		rement	Techniqu	e						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	-		V (2) -	.,					
	Method of assessment			lf ann of one	written examination (approx. 180 to 240 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. 30 minutes). creditable for bonus					

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Informatics (56 ECT	S credit	ts)									
10-l-ADS-152-m01	Algorit	hms an	d data str	ucture	5						
	ECTS 10 Duration			l	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (4) +	- Ü (2)			•	•		
	Method of assessment			lf ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus						
	Referre	ed to in	LPO I		Nr. 1 a) Nr. 1 a)						
10-I-PP-152-m01	Practic	al Cour	se in Prog	rammi	ng						
	ECTS	10	Duratio	า		Method of grading	(not) successfully completed	d Modul level	undergraduate		
	Course	:S		P (6)		•		2	·		
				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).							
	Referred to in LPO I			§ 49 Nr. 1 c) § 69 Nr. 1 d)							
10-I-MEC-152-m01	Introduction to Core Avionics Hardware										
	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	:S		V (4) +	- Ü (2) + Ü (2)			•	·		
	Method of assessment			written examination (approx. 120 minutes) and approx. 6 practical exercises (approx. 4 hours each), weighted 1:1 creditable for bonus							
10-I-AR-152-m01	Autom	ation ar	nd Control	Technology							
	ECTS	8	Duratio	l	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (4) +	- Ü (2)	•		<u>`</u>			
	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						
	Referre	d to in	LPO I	§ 22	Nr. 3 b)						

10-l-lÜ-152-m01	Information Transmission											
	ECTS	10	Duratior	า	1 semester	Method of grading r	numerical grade	Modul level	undergraduate			
	Courses	s		V (4) ·	/ (4) + Ü (2)							
		Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus							
		ed to in L	-	-	I Nr. 3 b)							
10-I-HMR-152-m01					ontrol System Engin	<u> </u>						
		8	Duratior		1 semester	Method of grading ((not) successfully completed	Modul level	undergraduate			
	Course	-		P (6)			n duwitten slebenstien (en m					
		I			project with presentation (approx. 15 minutes) and written elaboration (approx. 12 to 15 pages)							
Mathematics (20 E		-										
10-M-LRI1-152-m01		Mathematics 1 for students of Space- and Aerospace Computer Science										
	ECTS 10 Duratio				1 semester	Method of grading r	numerical grade	Modul level	undergraduate			
	Course	Courses			V (5) + Ü (2) Module taught in: Ü: German or English							
	Method of assessment		essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus								
10-M-LRI2-152-	Mather	matics 2	for stude	Idents of Space- and Aerospace Computer Science								
m01	ECTS	10	Duratior	ı	1 semester	Method of grading r	numerical grade	Modul level	undergraduate			
	Course	Courses			V (5) + Ü (2) Module taught in: Ü: German or English							
	Method of assessment			b) ora c) ora Langu	al examination of on I examination in gro	pprox. 90 to 120 minut e candidate each (app oups (groups of 2, 15 m : German and/or Englis	rox. 20 minutes) or inutes per candidate)					

Basics of Physics (<u> </u>	ECTS credits) Classical Physics 1 for Students of Physics related Disciplines											
11-ENNF1-152-m01		al Physi			ts of Physics related								
	ECTS	7	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S			+ Ü (2) Ile taught in: Ü: Gern	nan or English							
	Methoo	l of asse	essment	written examination (approx. 120 minutes) Language of assessment: German and/or English									
	other p	other prerequisites			Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.								
	Additio	nal Info	rmation	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.									
11-ENNF2-152-m01	Classic	Classical Physics 2 for Students of Physics related Disciplines											
	ECTS	7	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	Courses			V (4) + Ü (2) Module taught in: Ü: German or English								
	Method	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English								
	other p	rerequis	ites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.									
	Additio	nal Info	rmation	consid neral the qu stude for an sessn	dered a declaration academic and exam ualification for admi nts that meet the re- assessment or who	of will to seek admis ination regulations). ssion to assessment spective prerequisite se registration for an	sion to assessment pursuar If the module coordinators , they will put the student's s can successfully register f assessment was not put in	It to Section 20 Su subsequently find registration for ass for an assessment. to effect will not be	on to assessment, this will be bsection 3 Sentence 4 ASPO (ge- that the student has obtained eessment into effect. Only those Students who did not register e admitted to the respective as- de achieved in this assessment				

11-P-PA-152-m01	Laboratory Course Physics A (Mechanics, Heat, Electromagnetism)											
	ECTS 3 Duration		Method of grading (not) successfully complete	d Modul level	undergraduate							
	Courses	P (2)	(2)									
	Method of assessment	Preparing, performing pleted if a Testat (exar completion of all expe sics-related contents of	practical assignment with talk (approx. 30 minutes) Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.									
11-P-FR1-152-m01	Data and Error Analysis											
	ECTS 2 Duration	n 1 semester	Method of grading (not) successfully complete	d Modul level	undergraduate							
	Courses	V (1) + Ü (1) Module taught in: Ü: G	erman or English									
	Method of assessment	written examination (a Language of assessme	pprox. 120 minutes) ent: German and/or English									
	other prerequisites	Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who successfully completed approx. 50% of exercises will qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the semester.										
	Additional Information	Registration: If a student registers for the exercises and obtains the qualification for admission to assessment, this will be considered a declaration of will to seek admission to assessment pursuant to Section 20 Subsection 3 Sentence 4 ASPO (general academic and examination regulations). If the module coordinators subsequently find that the student has obtained the qualification for admission to assessment, they will put the student's registration for assessment into effect. Only those students that meet the respective prerequisites can successfully register for an assessment. Students who did not register for an assessment or whose registration for an assessment was not put into effect will not be admitted to the respective assessment. If a student takes an assessment to which he/she has not been admitted, the grade achieved in this assessment will not be considered.										
	Referred to in LPO I	§ 53 Nr. 1 c) § 77 Nr. 1 d)										
Compulsory Electiv	ves (18 ECTS credits)											
10-I-EinP-152-m01	Introduction to Program	nming										
	ECTS 5 Duration		Method of grading numerical grade	Modul level	undergraduate							
	Courses	V (2) + Ü (2)										
	Method of assessment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus										
	Referred to in LPO I	§ 49 Nr. 1 b) § 69 Nr. 1 b)										

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10-I-AGT-152-m01	Algorithmic Gr		_						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	_	V (2) +	+ Ü (2)					
	Method of asse	essment	lf anne 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 L	PO I	§ 22	Nr. 3 b)					
10-I-WBS-152-m01	Knowledge-bas	sed Syste	ems						
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (2) +	+ Ü (2)					
	Method of asse		If anne 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					
	Referred to in L	PO I	§ 22	Nr. 3 b)					
10-I-DM-152-m01	Data Mining				-				
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (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						
	Referred to in L			Nr. 3 b)					
10-I-00P-152-m01	Object oriented	d Program	nming				_		
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	-	V (2) +						
	Method of asse	essment	If anno 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 L	PO I	§ 22	Nr. 3 b)					

10-I-TIV-152-m01	Theore	Theoretical Informatics											
	ECTS	5	Duratio	<u>ו</u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		V (4)									
	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).								
	Referre	ed to in L	.PO I		§ 49 Nr. 1 a) § 69 Nr. 1 a)								
10-I-TIT-152-m01	Tutoria	al Theore	etical Info	rmatic	S								
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	es	•	Ü (2)				•					
	Metho	d of asse	essment	b) wri	a) completion of approx. 11 exercises with approx. 4 components each (50% to be completed correctly) or b) written examination (approx. 180 to 240 minutes) Method of assessment to be selected by the candidate.								
	Referre	ed to in L	.PO I	§ 49 I	§ 49 Nr. 1 a) § 69 Nr. 1 a)								
10-I-RAL-152-m01	Digital computer systems												
	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		V (4) -	V (4) + Ü (2)								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus									
10-I-RAK-152-m01	Compu	iter Arch	itecture										
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	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									
	Referred to in LPO I				§ 22 II Nr. 3 b) § 69 I Nr. 1 c): Rechnerarchitektur								

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Duchetor 5 with 1 major Actospace compater Science (2013)		

10-l-ST-152-m01	Softw	Software Technology												
	ECTS 10 Duration			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Cours	es		V (4) -	V (4) + Ü (2)									
	Metho	od of ass	essment			orox. 60 to 120 minute								
									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									
	Referr	ed to in I	PO I	§ 49 I	§ 49 Nr. 1 b) § 69 Nr. 1 b)									
				§ 69 I										
10-I-RK-152-m01	Comp		vorks and	l Comn	nunication Systems									
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Cours	es		V (4) -	+ Ü (2)									
	Metho	od of ass	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).										
				Language of assessment: German and/or English										
				creditable for bonus										
	Referr	ed to in l	PO I	§ 22	§ 22 Nr. 3 b)									
10-I-HWP-152-m01		cal cours	e in hard	ware										
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Cours			P (6)										
	Method of assessment			portfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 minutes per project)										
	Referr	ed to in l	POI	§ 22 II Nr. 3 b)										
10-I-RO-152-m01	Robot	ics												
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Cours	es	_	V (4) -	+ Ü (2)									
	Metho	od of ass	essment			orox. 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).		pprox. 20 minutes) or	an oral examination in groups	s of 2 candidates	s (approx. 15 minutes per candi-					
						: German and/or Engli	sh							
				creditable for bonus										

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10-M-DGLaf-152-	Ordinary Differential Equations for students of other subjects										
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (4) -	+ Ü (2)						
				b) ora c) ora Langu credit	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus						
10-M-NUM1af-152-	Numer	ical Mat	hematics	1 for s	tudents of other su	bjects					
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (4) -	+ Ü (2)						
	Method of assessment			b) ora c) ora Langu credit	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus						
10-M-NUM2af-152-	Numer	ical Mat	hematics	2 for s	2 for students of other subjects						
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (4) + Ü (2)							
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus							
10-M=ARTH-152-	Contro	l Theory	/								
m01	ECTS	10	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			V (4) + Ü (2) Module taught in: German or English							
	Metho	d of ass	essment	a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus							

10-I-AKLR-152-m01	no1 Selected Chapters of Aerospace Science and Engineering											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	;		V (2) ·	- + Ü (2)		•	•				
	Method	of asse	ssment	writte	n examination (ap	prox. 60 to 120 minut	es).					
									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								
10-I-AKI-152-m01	Selecter	d Chapt	ers of Co	-	r Science							
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	-		V (2) ·	ι + Ü (2)							
	Method	of asse	ssment			prox. 60 to 120 minut	es).					
				lf ann	ounced by the lec	turer at the beginning	of the course, the written		replaced by an oral examination			
						approx. 20 minutes) c	r an oral examination in g	groups of 2 candidates	s (approx. 15 minutes per candi-			
				date). Language of assessment: German and/or English								
10-l-3D-152-m01	2D Poin	D Point Cloud Processing										
		5	Duration	-	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V(2) + U(2)								
	Method		ssment		written examination (approx. 60 to 120 minutes).							
	meenou	01 4550	SSITTETIC	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 L	PO I	§ 22 Nr. 3 b)								
10-I-BS-152-m01	Operati	ng Syst										
_	ECTS 5 Duration			ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	;		V (2) ·	ι + Ü (2)		•					
	Method	of asse	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-								
				of one date).		approx. 20 minutes) c	r an oral examination in g	groups of 2 candidates	s (approx. 15 minutes per candi-			
						nt: German and/or Eng	lish					
				creditable for bonus								

10-l-DB-152-m01	Databa	Databases												
	ECTS	5	Duratio	n	1 semester	Method of grading numerica	al grade	Modul level	undergraduate					
	Course	S		V (2) ·	+ Ü (2)									
	Methoc	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 § 49 Nr. 1 b) § 69 Nr. 1 b)										
	Referre	d to in L	_PO I											
11-AP-152-m01	Astrop	Astrophysics												
	ECTS	6	Duratio	n	1 semester	Method of grading numerica	al grade	Modul level	undergraduate					
	Course	S		V (2) - Modu	+ R (2) Ile taught in: Germ	an or English								
			essment	 b) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or d) project report (approx. 8 to 10 pages) or e) presentation/talk (approx. 30 minutes) If a written examination was chosen as method of assessment, this may be changed and assessment may instead take the form of an oral examination of one candidate each or an oral examination in groups. If the method of assessment is changed, the lecturer must inform students about this by four weeks prior to the original examination date at the latest. Language of assessment: German and/or English 										
	Referre	ed to in L	_PO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)										
11-P-LRB-152-m01	Labora	tory Co	urse Phys	sics B for Space and Aerospace Computer Science										
	ECTS	4	Duratio			Method of grading (not) suc	ccessfully completed	Modul level	undergraduate					
	Course			P (2)										
			essment	Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully com- pleted if a Testat (exam) is passed. Exactly one experiment that was not successfully completed can be repeated once. After completion of all experiments, talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the phy- sics-related contents of the module. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.										
	other p	orerequi	sites	Students are highly recommended to complete modules 11-P-PA and 11-P-FR1 prior to completing module 11-P-LRB.										

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11-P-LRC-152-m01	Laborato	Laboratory Course Physics C for Space and Aerospace Computer Science												
	ECTS 4	ļ.	Duration	n		Method of grading	(not) successfully completed	Modul level	undergraduate					
	Courses			P (2)	(2)									
	Method o	ofasse	essment			talk (approx. 30 mir								
									pe considered successfully com-					
				pleted	I IF a Testat (exam) Is	s passed. Exactly one	e experiment that was not succe ssion: approx 20 minutes) to t	essiully comple	ted can be repeated once. After te's understanding of the phy-					
									ated once. Both components of					
				the assessment have to be successfully completed.										
	other pre	erequis	sites	Stude	ents are highly recom	mended to complet	e module 11-P-LRB prior to com	oleting module	11-P-LRC.					
Key Skills Area (20	ECTS cred	lits)												
General Key Skills														
All modules offered	l as part o	f the p	ool of ge	neral ti	ransferable skills (A	SQ) that do not come	from the area of Informatik (Co	mputer Science	e) may be accredited.					
Subject-specific Ke	y Skills (1	5 ECT	S credits)	I										
10-I-LRLA-152-m01	Aerospac	ce Lab	oratory											
	ECTS 5	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (2) ·	$V(2) + \ddot{U}(2)$									
	Method o	ofasse	essment	Completion of approx. 6 practical exercises (approx. 4 hours each)										
10-I-LRS1-152-m01		for stu	udents of	Space	- and Aerospace Cor	nputer Science 1								
	ECTS 5	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		S (2)											
	Method o	ofasse	essment	written elaboration (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion (approx. 20 minutes) on a topic from the field of aerospace information technology										
10-I-LRS2-152-m01	Seminar	for stu	udents of	f Space- and Aerospace Computer Science 2										
	ECTS 5	5	Duration	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			S (2)										
	Method of assessment			written elaboration (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion (approx. 20 minutes) on										
	a topic from the field of aerospace information technology													
10-I-PLR-152-m01	Practical							1						
	ECTS 2	2	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Courses			P (o)										
	Method o	ofasse	essment	report (3 to 5 pages) and presentation (approx. 5 to 10 minutes) on practical work										

Thesis (12 ECTS credits)										
10-I-LRI-BA-152- Bachelor's Thesis Space- and Aerospace Computer Science										
m01	ECTS	12	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		No co	No courses assigned to module					
	Method	l of asse			Bachelor's thesis (approx. 30 to 60 pages) anguage of assessment: German or English					
	Additional Information Time to complete: 12 weeks									