



## **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: 2017 Examination regulations version: 2017

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: <b>SS</b> = summer semester, <b>WS</b> = winter semester
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully completed
	Regulations: <b>(L)ASPO</b> = general academic and examination regulations (for teaching-degree programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b> = list of modules
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = 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)):

### 10-May-2017 (2017-34)

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	ble							
	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)					

Compulsory Course	es (124 ECTS cr	edits)										
Aerospace Science and Engineering (36 ECTS credits)												
10-I-LFS-172-m01	Introduction t	troduction to Aviation Systems										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) -	⊦Ü (1)								
	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. 30 minutes). creditable for bonus									
	Referred to in	LPO I	§ 22	l Nr. 3 b)								
10-I-RFS-172-m01	Introduction t	o Space S	ystems	5								
	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) -	⊦Ü (1)								
	Method of ass		If ann of one 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. 30 minutes). creditable for bonus								
	Referred to in	LPO I	§ 22	Nr. 3 b)								
10-I-LRFB-172-m01	Spacecraft Operations											
	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4) -	+ Ü (2)				_				
	Method of ass	sessment	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-GRFM-172-	Mechanics of	aerospace	e syste	ms								
m01	ECTS 10 Duration				numerical grade	Modul level	undergraduate					
	Courses	ourses		V (4) + Ü (2)								
	Method of ass	sessment	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-LMT-172-m01	Measurement	Techniqu	e									
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3) -	+ Ü (2)	•		·					
	Method of assessment		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									
Bachelor's with 1 major A	erospace Computer S	science (2017)				JMU Würzburg • generated	d 19-Apr-2025 • exam. reg. data r	record 82 t25 - - H 2017	page 3 / 15			

Informatics (49 EC	TS credit	ts)												
10-I-ADS-152-m01	Algorit	Algorithms and data structures												
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (4)	+ Ü (2)			Ň						
	Methoo	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 a) § 69   Nr. 1 a)									
10-I-GdP-172-m01	Fundamentals of Programming													
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses Method of assessment		V (2)	+ Ü (2)			<u>.</u>							
	Referre	Referred to in LPO I			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 § 49   Nr. 1 b)									
				§ 69   Nr. 1 b)										
10-I-MEC-172-m01					amming of Avionics									
	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
		Courses			$V(4) + \ddot{U}(2) + P(2)$									
	Methoo	d of ass	essment	written examination (approx. 120 minutes) and practical examination (approx. 6 programming exercises approx. 4 hours each), weighted 1:1 creditable for bonus										
10-I-BDV-152-m01	On boa	rd data	processi	ng	g									
	ECTS 8 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (4)	+ Ü (2)									
	Methoo	d of ass	essment		n examination (app able for bonus	rox. 120 minutes) and	d approx. 6 practical	exercises (approx. 4 hou	rs each), weighted 1:1					

10-I-AR-152-m01	Autom	Automation and Control Technology											
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	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									
	Referre	ed to in l	POI	§ 22	§ 22    Nr. 3 b)								
10-I-HMR-152-m01	Practic	al Meas	urement	and Co	nd Control System Engineering								
	ECTS	8	Duratior	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses			P (6)	<u>.</u>			-					
	Metho	d of ass	essment	proje	project with presentation (approx. 15 minutes) and written elaboration (approx. 12 to 15 pages)								
Mathematics (20 E	CTS cree	dits)											
10-M-LRl1-152-m01	Mathematics 1 for students of Space- and Aerospace Computer Science												
(	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		V (5) + Ü (2) Module taught in: Ü: German or English									
	Method of assessment			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-	Mathe	matics 2	2 for stude	ents of	ts of Space- and Aerospace Computer Science								
m01	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (5) + Ü (2) Module taught in: Ü: 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 creditable for bonus									

Basics of Physics (	19 ECTS	credits)										
11-ENNF1-152-m01	Classic	al Physi	cs 1 for S	Student	ts of Physics related	l Disciplines						
	ECTS	7	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			+ Ü (2) le taught in: Ü: Gern	nan or English						
	Methoo	Method of assessment			written examination (approx. 120 minutes) Language of assessment: 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.								
	Additio	nal Info	rmation	consid neral the qu stude for an sessn	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	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							
	Methoo	Method of assessment			written examination (approx. 120 minutes) Language of assessment: 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.								
	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-P-PA-152-m01	Laboratory (	Course Phys	sics A (	Mechanics, Heat	Electromagnetism)						
	ECTS 3	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (2)								
	Method of a	ssessment	Prepa plete comp sics-r	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.							
1-P-FR1-152-m01	Data and Err	or Analysis	;								
	ECTS 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			(1) + Ü (1) odule taught in: Ü: German or English							
	Method of a	ssessment	writte Lang	written examination (approx. 120 minutes) _anguage of assessment: German and/or English Admission prerequisite to assessment: completion of exercises (approx. 13 exercise sheets per semester). Students who							
	other prereq	uisites	succe	essfully complete		ses will qualify for admission		per semester). Students who The lecturer will inform students			
	Additional Ir	nformation	consi neral the q stude for ar sessr	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 i	n LPO I		Nr. 1 c) Nr. 1 d)							
Compulsory Electi	ves (24 ECTS o	redits)									
10-l-lÜ-152-m01	Information	Transmissi	on								
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (4)	V (4) + Ü (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 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								

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10-I-AGT-152-m01	Algorithmic G	hmic Graph Theory										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) -	+ Ü (2)		·	•					
	Method of ass	essment	If ann of one date). Langu	ounced by the lectu e candidate each (ap	rox. 60 to 120 minute rer at the beginning o oprox. 20 minutes) o German and/or Eng	of the course, the written e r an oral examination in gr	examination may be r oups of 2 candidates	replaced by an oral examination 5 (approx. 15 minutes per candi-				
	Referred to in I	LPO I	§ 22	Nr. 3 b)								
10-I-WBS-152-m01	Knowledge-ba	sed Syste	ems									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	-	V (2) -	+ Ü (2)				•				
	Method of ass		If ann of one date). Langu	Language of assessment: German and/or English creditable for bonus								
	Referred to in I	LPO I	§ 22	l Nr. 3 b)								
10-I-DM-152-m01	Data Mining											
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			$V(2) + \ddot{U}(2)$								
	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									
	Referred to in I	LPO I	§ 22	§ 22    Nr. 3 b)								
10-I-TIV-152-m01	Theoretical Inf	ormatics						-				
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4)									
	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).									
	Referred to in I	LPO I	§ 49   § 69	Nr. 1 a) Nr. 1 a)								

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10-I-TIT-152-m01	Tutoria	Tutorial Theoretical Informatics											
	ECTS 5 Duration			n	1 semester	Method of grading (not) successfully comple	eted Modul level	undergraduate					
	Courses	s		Ü (2)	(2)								
	Method	Method of assessment			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.								
	Referred to in LPO I				§ 49   Nr. 1 a) § 69   Nr. 1 a)								
10-I-RAL-152-m01	Digital	compu	ter systen	ns									
	ECTS 10 Duration			n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (4) -	+ Ü (2)	· · ·		-					
				If ann of one date).	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). reditable for bonus								
	Compu	ter Arch	hitecture										
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (2) ·	+ Ü (2)								
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per 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									
10-I-ST-152-m01	Softwa	re Tech	nology										
	ECTS 10 Duration			n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses		V (4) + Ü (2)										
	Method of assessment			written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus									
	Referred to in LPO I				§ 49   Nr. 1 b) § 69   Nr. 1 b)								

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10-l-RK-152-m01	Compu	Computer Networks and Communication Systems												
	ECTS	8	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	es		V (4) +	/ (4) + Ü (2)									
	Metho	d of asse	essment			rox. 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). Language of assessment: German and/or English										
				creditable for bonus										
	Referre	ed to in L	PO I	§ 22	l Nr. 3 b)									
10-I-HWP-152-m01	Practic	al cours	e in hard	ware										
	ECTS	10	Duration		1 semester	Method of grading	(not) successfully compl	leted Modul level	undergraduate					
	Course	es		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)										
	Referre	ed to in L	PO I	§ 22 II Nr. 3 b)										
10-I-SWP-LU-	Practical course in software for students of Space- and Aerospace Computer Science													
RI-172-m01	ECTS	10	Duration	า	1 semester	Method of grading	(not) successfully compl	leted Modul level	undergraduate					
	Course			P (6)										
	Method of assessment			practical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (approx. 10 minutes per group)										
	Modules successfully completed			10-I-GdP, 10-I-MEC, 10-I-ST										
	other p	orerequis	sites	In addition, the knowledge and skills acquired in module 10-I-ADS are required. Prior attendance of this module is therefore highly recommended.										
10-l-RO-152-m01	Roboti	cs												
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	es		V (4) + Ü (2)										
	Metho	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).		pprox. 20 minutes) of	an oral examination in g	roups of 2 candidates	s (approx. 15 minutes per canui-					
						: German and/or Eng	ish							
					able for bonus									

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) -	V (4) + Ü (2)							
				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)							
				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 Duration		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	<ul> <li>a) written examination (approx. 90 to 120 minutes, usually chosen) or</li> <li>b) oral examination of one candidate each (approx. 20 minutes) or</li> <li>c) oral examination in groups (groups of 2, 15 minutes per candidate)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered and in the subsequent semester</li> <li>creditable for bonus</li> </ul>								

10-I-AKLR-152-m01	Selecte	Selected Chapters of Aerospace Science and Engineering												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	;		V (2) ·	/ (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	mputer 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	3D Point Cloud Processing													
		5	Duration	-	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			$V(2) + \ddot{U}(2)$										
	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 II Nr. 3 b)										
10-I-BS-152-m01	Operati	ng Syst												
_			Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	;		V (2) ·	- + Ü (2)		, -							
				writte	n examination (ap	prox. 60 to 120 minut	es).							
				If announced by the lecturer at the beginning of the course, the written examination may be 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).		nt: German and/or Eng	lish							
					able for bonus									

10-l-DB-152-m01	Databa	Databases													
	ECTS 5 Duration		n 1 semester N		Method of grading numerica	ll grade	Modul level	undergraduate							
	Course	S		V (2) ·	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)											
11-AP-152-m01	Astrop	Astrophysics													
	ECTS	6	Duratio	n	1 semester	Method of grading numerica	ll grade	Modul level	undergraduate						
	Course	S		V (2) - Modu	+ R (2) Ile taught in: Germ	an or English									
			essment	<ul> <li>b) oral examination of one candidate each (approx. 30 minutes) or</li> <li>c) oral examination in groups (groups of 2, approx. 30 minutes per candidate) or</li> <li>d) project report (approx. 8 to 10 pages) or</li> <li>e) presentation/talk (approx. 30 minutes)</li> <li>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.</li> <li>Language of assessment: German and/or English</li> </ul>											
	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) suce	cessfully 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	Stude	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 Duration		ı		Method of grading	(not) successfully completed	Modul level	undergraduate						
	Courses			P (2)	(2)									
	Method o	ofasse	essment			talk (approx. 30 mir								
									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 physics-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 pre	requis	sites	Stude	nts are highly recom	mended to complet	e module 11-P-LRB prior to com	pleting module	11-P-LRC.					
Key Skills Area (20	ECTS cred	lits)												
General Key Skills														
All modules offered	l as part of	f the p	ool of gei	neral ti	ransferable skills (As	SQ) that do not come	from the area of Informatik (Co	omputer Science	e) may be accredited.					
Subject-specific Ke	y Skills (1	5 ECTS	S credits)											
10-I-LRLA-172-m01	Aerospac	e Lab	oratory											
	ECTS 6	1	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (2) ·	V(2) + P(2)									
	Method of assessment				Completion of approx. 6 practical exercises (approx. 4 hours each)									
10-I-LRS1-152-m01		for stu	udents of	Space- and Aerospace Computer Science 1										
	ECTS 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		Duration	1	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-172-m01	Practical	work	Space Te			-								
	ECTS 4		Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate					
	Courses			P (2)	<u>,</u>	•		-	·					
	Method c	fasse	essment	report (5 to 10 pages) and presentation (approx. 15 minutes) on practical work										

Thesis (12 ECTS credits)										
10-I-LRI-BA-152- Bachelor's Thesis Space- and Aerospace Computer Science										
m01	ECTS	12 Duration			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) Language of assessment: German or English					
	Additional Information Time to complete: 12 weeks									