



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: Institute of Computer Science Examination regulations version: 2014 Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{\ddot{U}} = \text{exercise}$, \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) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on 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 assessment procedures: 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:

ASP02009

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

24-Mar-2014 (2014-9)

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 Durat | | on | (in semesters) | Method of grading | | Module level | | | |
| | Courses | | | | ecified in the form X | (y) with course type 2 | X abbreviated as specified abo | ove and number of we | ekly contact hours y | |
| | Method of assessment | | | | | | | | | |
| | Only after successful completion of | | | if applica | ble | | | | | |
| | Other prerequisites | | | if applicable | | | | | | |
| | Participants and allocation of places | | locati- | if applica | ble | | | | | |
| Additional information | | | tion | if applicable | | | | | | |
| | Referred to in LPO I | | if applicable (examination regulations for teaching-degree programmes) | | | | | | | |

| Thesis (12 ECTS cre | dits) | | | | | | | | |
|---------------------|--|---|----------|--|--|------------------------|---------------------------------|--|--|
| 10-I-LRI-BA-141- | Bachelor Thesi | s Space- and Aerospace Computer Science | | | | | | | |
| m01 | ECTS 12 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | C (no i | nformation on SV | VS (weekly contact hours) and course language a | available) | | | |
| | Method of asse | essment | writter | n thesis (approx. | 30 to 60 pages) | | | | |
| | | | Langu | Language of assessment: German, English | | | | | |
| Compulsory Course | es (130 ECTS cre | dits) | | | | | | | |
| Aerospace (35 ECTS | 6 credits) | | | | | | | | |
| 10-I-ELRS-141-m01 | Introducing to | Aerospa | ce Syste | ems | | | | | |
| | ECTS 6 | Duratio | n | 2 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü + | + V + Ü (no inform | ation on SWS (weekly contact hours) and course | e language available) | | | |
| | Method of asse | essment | writter | n examination (ap | prox. 180 to 240 minutes); if announced by the | lecturer at the beginn | ning of the course, the written | | |
| | | | | nation can be rep | laced by an oral examination of one candidate e | each (approx. 20 min | utes) or an oral examination in | | |
| 10-I-I RBF-1/(1-m01 | Operations of A | Aerospac | e Svste | ms | | 1 | | | |
| | ECTS 10 Duratio | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü (| no information o | n SWS (weekly contact hours) and course langua | age available) | | | |
| | Method of asse | essment | writter | n examination (ap | pprox. 180 to 240 minutes); if announced by the | lecturer at the beginn | ning of the course, the written | | |
| | | | exami | nation can be rep | laced by an oral examination of one candidate e | each (approx. 20 min | utes) or an oral examination in | | |
| | groups (groups of 2, approx. 30 minutes) | | | | | | | | |
| 10-I-LRDN-141-m01 | Dynamics of ac | erospace | system | S | | | | | |
| | ECIS 6 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + U (| no information of | n SWS (weekly contact hours) and course langua | age available) | | | |
| | Method of asse | essment | writter | written examination (approx. 180 to 240 minutes); it announced by the lecturer at the beginning of the course, the written | | | | | |
| | | | groups | s (groups of 2, ap | prox. 30 minutes) | | | | |
| 10-I-BDV-141-m01 | On board data | processi | ng | | | | | | |
| | ECTS 8 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü (| (no information o | n SWS (weekly contact hours) and course langua | age available) | | | |
| | Method of asse | essment | writter | n examination (ap | pprox. 120 minutes) and approx. 6 practical exer | cises (approx. 6 exer | cises, approx. 4 hours each), | | |
| | | | weight | ted 1:1 | | | | | |
| 10-I-LMT-141-m01 | Measurement | Techniqu | e | _ | | | | | |
| | ECIS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + U (| no information of | n SWS (weekly contact hours) and course langua | age available) | | | |
| | Method of asse | essment | writter | n examination (ap | pprox. 180 to 240 minutes); if announced by the laced by an oral examination of one candidate s | lecturer at the begini | ning of the course, the written | | |
| | | | groups | s (groups of 2, ap | prox. 30 minutes) | | | | |
| | | | <u> </u> | | · - · | | | | |

| Bachelor's with 1 major Aerospace Computer Science (2014) | JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 f25 - - H 2014 | page 3 / 12 |
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| Computer Science | 56 ECTS credits |) | | | | | | |
|-------------------|--|-----------|---|--|--|--|--|--|
| 10-I-ADSV-141-m01 | Algorithm and | data stru | ctures | | | | | |
| | ECTS 5 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V (no information on S | WS (weekly contact hours) and course language ava | ilable) | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) | | | | | |
| 10-I-ADST-141-m01 | Tutorial Algorit | hm and d | lata structures | | | | | |
| | ECTS 5 | Duratior | 1 semester | Method of grading (not) successfully complete | d Modul level | undergraduate | | |
| | Courses | | Ü (no information on S | SWS (weekly contact hours) and course language ava | ilable) | | | |
| | Method of asse | essment | a) completion of appro b) written examination | ox. 11 exercise sheets with approx. 4 exercises per sh n (approx. 180 to 240 minutes). Method of assessme | neet (50% of exercent of the selected of the s | ises to be completed correctly) or by the candidate. | | |
| 10-I-PP-141-m01 | Practical Cours | e in Prog | ramming | | | | | |
| | ECTS 10 | Duratior | 1 semester | Method of grading (not) successfully complete | d Modul level | undergraduate | | |
| | Courses | | P (no information on S | WS (weekly contact hours) and course language ava | ilable) | | | |
| | Method of asse | essment | completion of program by the lecturer at the b te each (approx. 20 m | nming exercises (approx. 240 hours) and written exame beginning of the course, the written examination can inutes) or an oral examination in groups (groups of 2 | mination (approx. be replaced by ar , approx. 30 minu | 60 to 120 minutes). If announced n oral examination of one candida- ites). | | |
| | Additional Information Additional information on module duration: 1 to 2 semesters. | | | | | | | |
| 10-I-MEC-141-m01 | Introduction to Core Avionics Hardware | | | | | | | |
| | ECTS 10 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü + Ü (no informat | ion on SWS (weekly contact hours) and course langu | age available) | | | |
| | Method of assessment written examination (approx. 120 minutes) and approx. 6 practical exercises (approx. 6 exercises, approx. 4 hours each), weighted 1:1 | | | | | | | |
| 10-I-AR-141-m01 | Automation and | d Control | Technology | | | | | |
| | ECTS 8 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü (no information | on SWS (weekly contact hours) and course language | available) | | | |
| | Method of assessment | | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | |
| 10-I-IÜV-141-m01 | Information Tra | nsmissio | on | | | | | |
| | ECTS 5 | Duratior | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V (no information on S | WS (weekly contact hours) and course language ava | ilable) | | | |
| | Method of asse | essment | written examination (a examination can be re groups (groups of 2, a | pprox. 60 to 120 minutes); if announced by the lectu placed by an oral examination of one candidate each pprox. 30 minutes) | urer at the beginni h (approx. 20 min | ing of the course, the written utes) or an oral examination in | | |

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| 10-I-IÜT-141-m01 | 1 Tutorial Information Transmission | | | | | | | | | | |
|----------------------|--|---|----------------|----------------------------------|--|--|---|------------------------------|-------------------------------|--|--|
| | ECTS | 5 | Duratio | 1 | 1 semester | Method of grading | (not) successfully com | npleted M | odul level | undergraduate | |
| | Course | S | | Ü (no | information on SW | S (weekly contact ho | urs) and course languag | ge available |) | | |
| | Methoo | d of asse | essment | a) cor b) wri | npletion of approx. tten examination (a | 11 exercise sheets warpprox. 180 to 240 mi | ith approx. 4 exercises p nutes). Method of asse | per sheet (5 ssment to b | o% of exerci be selected b | ses to be completed correctly) or y the candidate. | |
| 10-I-HMR-141-m01 | Practical Measurement and Control System Engineering | | | | | | | | | | |
| | ECTS | 8 | Duratio | ı | 1 semester | Method of grading | (not) successfully com | npleted M | odul level | undergraduate | |
| | Course | S | | P (no | information on SW | S (weekly contact hou | urs) and course languag | ge available) |) | | |
| | Methoo | d of asse | essment | proje | ct assignment with | presentation (approx | . 15 minutes) and writte | en elaboratio | on (approx. 1 | 12 to 15 pages) | |
| Mathematics (20 E | CTS cred | lits) | | | | | | | | | |
| 10-M-LRI1-141-m01 | Mather | matics 1 | for stude | ents of | Space- and Aerosp | ace Computer Scienc | e | | | | |
| | ECTS | 10 | Duratio | ı | 1 semester | Method of grading | numerical grade | Μ | odul level | undergraduate | |
| | Course | S | | V + Ü | (no information on | SWS (weekly contact | hours) and course lang | guage availa | able) | | |
| | Methoc | d of asse | essment | writte exam group Langu | n examination (app ination can be repla is (groups of 2, app lage of assessment | orox. 90 to 120 minuto aced by an oral exam rox. 30 minutes) :: German, English | es); if announced by the ination of one candidate | e lecturer at e each (app | the beginnii rox. 20 minu | ng of the course, the written Ites) or an oral examination in | |
| 10-M-LRI2-141-m01 | Mather | lathematics 2 for students of Space- and Aerospace Computer Science | | | | | | | | | |
| | ECTS | 10 | Duratio | า | 1 semester | Method of grading | numerical grade | Μ | odul level | undergraduate | |
| | Course | S | | V + Ü | (no information on | SWS (weekly contact | hours) and course lang | guage availa | able) | | |
| | Methoo | d of asse | essment | writte exam group Langu | n examination (app ination can be repla is (groups of 2, app lage of assessment | orox. 90 to 120 minuto aced by an oral exam rox. 30 minutes) :: German, English | es); if announced by the ination of one candidate | e lecturer at e each (app | the beginnii rox. 20 minu | ng of the course, the written Ites) or an oral examination in | |
| Basics of Physics (a | 19 ECTS | credits) | I | | | | | | | | |
| 11-ENNF1-062-m01 | Introdu | iction to | Physics | Part 1 | for students of Phy | sics Related Minor S | ubjects | | | _ | |
| | ECTS | 7 | Duratio | 1 | 1 semester | Method of grading | numerical grade | Μ | odul level | undergraduate | |
| | Course | S | | V + Ü | (no information on | SWS (weekly contact | hours) and course lang | guage availa | able) | | |
| | Method | d of asse | essment | writte | n examination (app | orox. 120 minutes) | | | | | |
| | Particip cation o | oants an of place | id allo- s | Only a | as part of pool of ge | eneral key skills (ASQ |): 20 places. Places will | be allocate | ed by lot. | | |
| 11-ENNF2-062-m01 | Introdu | iction to | Physics | Part 2 | for students of Phy | sics Related Minor S | ubjects | | | | |
| | ECTS | 7 | Duratio | 1 | 1 semester | Method of grading | numerical grade | М | odul level | undergraduate | |
| | Course | S | - | V + Ü | (no information on | SWS (weekly contact | hours) and course lang | guage availa | able) | | |
| | Method | d of asse | essment | writte | n examination (app | orox. 120 minutes) | | | | , | |
| | Particip cation o | oants an of place | id allo- s | Only a | as part of pool of ge | eneral key skills (ASQ |): 20 places. Places will | be allocate | ed by lot. | | |

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| 11-P-PA-092-m01 | Practic | al Cours | se A | | | | | | | | | |
|---------------------------|----------------------|-----------|----------|---|--|--|--|--|---|--|--|--|
| | ECTS | 5 | Duration | n | 1 semester | Method of grading | (not) successfully cor | mpleted Modul leve | undergraduate | | | |
| | Course | 'S | | Ausw conta Beisp week | iswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 we ntact hour), once a year (winter semester) sispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P eekly contact hours) | | | | | | | |
| | Metho | d of asse | essment | This r 1. Top 2. Lat (ex (ap | nodule has the follo pics covered in lectu course: a) Preparin am) is passed. b) Ta prox. 30 minutes). | owing assessment co ures and exercises: w ng, performing and ev alk (with discussion) | nponents ritten examination (ap) aluating the experime to test the students' ur | prox. 120 minutes) nts will be considered nderstanding of the pł | successfully completed if a Testat sysics-related contents of the course | | | |
| | Referred to in LPO I | | | | essful completion o ss assessment com e element a) and/or | f approx. 50% of prac ponent 2, students n r element b). | tice work is a prerequi nust pass both elemen | site for admission to a ts a) and b). Students | ssessment component 1 . will be offered one opportunity to | | | |
| | | | | | Students must register for assessment components rand 2 on the (details to be announced). Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity). To pass this module, students must pass both assessment component 1 and assessment component 2. | | | | | | | |
| | | | | | § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. c) Physik physikalische Grundpraktika § 77 (1) 1. d) Physik "physikalische Praktika" | | | | | | | |
| Compulsory Electiv | ves (18 E | CTS cre | dits) | | | | | | | | | |
| 10-I-EinP-141-m01 | Introdu | uction to | Program | ming | | | | | | | | |
| | ECTS | 5 | Duration | n | 1 semester | Method of grading | numerical grade | Modul leve | undergraduate | | | |
| | Course | S | | V + Ü | (no information on | SWS (weekly contact | hours) and course lan | guage available) | | | | |
| | Method of assessment | | essment | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) | | | | | | | | |
| 10-I-AGT-141-m01 | Algorit | hmic Gr | aph Theo | ry | | | | | | | | |
| | ECTS | 5 | Duration | n | 1 semester | Method of grading | numerical grade | Modul leve | undergraduate | | | |
| | Course | S | | V + Ü | (no information on | SWS (weekly contact | hours) and course lan | guage available) | | | | |
| Method of assess | | | essment | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German. English | | | | | | | | |

| 10-I-WBS-141-m01 | Knowledge-based Systems | | | | | | | | | |
|-------------------|--|-------------|---|---|--------------------------------------|--------------------------|------------------|---------------------------------|--|--|
| | ECTS 5 | Duratior | า | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü | (no information on | SWS (weekly contact hours) | and course language av | ailable) | | | |
| | Method of ass | essment | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written | | | | | | | |
| | | | exam | examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in | | | | | | |
| | Language of assessment: German, English | | | | | | | | | |
| 10-l-DM-141-m01 | Data Mining | | 34 | | | | | | | |
| | ECTS 5 | Duratior | ı | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü | (no information on | SWS (weekly contact hours) | and course language av | ailable) | | | |
| | Method of ass | essment | writte | n examination (app | rox. 60 to 120 minutes); if a | innounced by the lecture | r at the beginni | ng of the course, the written | | |
| | | | exam | ination can be repla | iced by an oral examination | of one candidate each (a | approx. 20 minu | utes) or an oral examination in | | |
| | | | group | is (groups of 2, app | rox. 30 minutes) • German English | | | | | |
| 10-l-00P-141-m01 | Obiect oriente | d Progran | nming | | | | | | | |
| | ECTS 5 | Duration | 1 | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü | (no information on | SWS (weekly contact hours) | and course language av | ailable) | | | |
| | Method of ass | essment | writte | n examination (app | rox. 60 to 120 minutes); if a | innounced by the lecture | r at the beginni | ng of the course, the written | | |
| | | | exam | examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in | | | | | | |
| | | | group | anguage of assessment: German, English | | | | | | |
| 10-I-TIV-1/11-m01 | Theoretical Inf | ormatics | Lange | | | | | | | |
| | FCTS 5 | Duration | 1 | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Courses | | V (no | information on SWS | 6 (weekly contact hours) and | d course language availa | ble) | | | |
| | Method of ass | essment | writte | n examination (app | rox. 60 to 120 minutes): if a | innounced by the lecture | r at the beginni | ng of the course, the written | | |
| | | | exam | examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in | | | | | | |
| | groups (groups of 2, approx. 30 minutes) | | | | | | | | | |
| 10-I-TIT-141-m01 | Tutorial Theore | etical Info | ormatio | S | | | | | | |
| | ECTS 5 | Duratior | 1 | 1 semester | Method of grading (not) | successfully completed | Modul level | undergraduate | | |
| | Courses | | U (no | information on SW | 6 (weekly contact hours) and | d course language availa | ble) | | | |
| | Method of ass | essment | a) cor b) wri | a) completion of approx. 11 exercise sheets with approx. 4 exercises per sheet (50% of exercises to be completed correctly) or b) written examination (approx. 180 to 240 minutes). Method of assessment to be selected by the candidate. | | | | | | |
| 10-I-RALV-141-m01 | Digital comput | er system | ns | | | | | | | |
| | ECTS 5 | Duration | 1 | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Courses | | V (no | information on SWS | 6 (weekly contact hours) and | d course language availa | ble) | | | |
| | Method of ass | essment | writte | n examination (app | rox. 60 to 120 minutes); if a | nnounced by the lecture | r at the beginni | ng of the course, the written | | |
| | | | exam | ination can be repla | rox 30 minutes) | or one candidate each (a | approx. 20 mini | utes) or an oral examination in | | |
| 1 | | | Sivup | s (groups or z, app | | | | | | |

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| 10-I-RALT-141-m01 | Tutorial Di | Tutorial Digital computer systems | | | | | | | | | | |
|-------------------|--|-----------------------------------|---|--|--|---|------------------------|--|--|--|--|--|
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | g (not) successfully com | pleted | Modul level | undergraduate | | | |
| | Courses | | Ü (no | information on SW | /S (weekly contact he | ours) and course language | e availab | ole) | | | | |
| | Method of | assessment | a) cor b) wri | npletion of approx. tten examination (a | . 11 exercise sheets v approx, 180 to 240 n | vith approx. 4 exercises p ninutes). Method of asses | oer sheet ssment to | (50% of exerc be selected b | ises to be completed correctly) or by the candidate. | | | |
| 10-I-RAK-141-m01 | Computer | Computer Architecture | | | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | g numerical grade | | Modul level | undergraduate | | | |
| | Courses | Į | V + Ü | (no information on | SWS (weekly contac | t hours) and course lang | uage ava | ailable) | | | | |
| | Method of | assessment | writte exam group Langu | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | | |
| 10-I-STV-141-m01 | Software 1 | Fechnology | | | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | g numerical grade | | Modul level | undergraduate | | | |
| | Courses | | V (no | information on SW | 'S (weekly contact ho | ours) and course language | e availab | ole) | | | | |
| | Method of assessment written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of one candidate each (approx. 20 minutes) or an oral examination of o | | | | | | | | ng of the course, the written utes) or an oral examination in | | | |
| 10-I-STT-141-m01 | Tutorial Software Technology | | | | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | g (not) successfully com | pleted | Modul level | undergraduate | | | |
| | Courses | | Ü (no | information on SW | /S (weekly contact he | ours) and course language | e availab | ole) | | | | |
| | Method of | assessment | a) completion of approx. 11 exercise sheets with approx. 4 exercises per sheet (50% of exercises to be completed correc b) written examination (approx. 180 to 240 minutes). Method of assessment to be selected by the candidate. | | | | | ises to be completed correctly) or by the candidate. | | | | |
| 10-I-RK-141-m01 | Computer | Networks | | | | | | | | | | |
| | ECTS 8 | Duratio | n | 1 semester | Method of grading | g numerical grade | | Modul level | undergraduate | | | |
| | Courses | | V + Ü | (no information on | SWS (weekly contac | t hours) and course lang | uage ava | ailable) | | | | |
| | Method of assessment written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the c examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | ng of the course, the written utes) or an oral examination in | | | | |
| 10-I-HWP-141-m01 | Practical of | ourse in hard | ware | | | | | | | | | |
| | ECTS 10 | Duratio | n | 1 semester | Method of grading | g (not) successfully com | pleted | Modul level | undergraduate | | | |
| | Courses | | P (no | information on SW | S (weekly contact ho | ours) and course language | e availab | ole) | _ | | | |
| | Method of | assessment | projec prox. | ct portfolio: comple 10 minutes per pro | etion of approx. 3 to ject) | lo project assignments (a | approx. 2 | 50 hours total |) and presentation of results (ap- | | | |

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| 10-I=RO-141-m01 | Robotics | | | | | | | | | | | |
|-----------------|--|--|----------|---|--------------------|----------------------|------------------------------|---------------|---------------|--|--|--|
| | ECTS 8 Duration | | n | 1 semester | Method of grading | g numerical grade | Modul level | graduate | | | | |
| | Courses | 5 | | V + Ü | (no information o | n SWS (weekly contac | t hours) and course languag | ge available) | | | | |
| | Method of assessment | | | written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) | | | | | | | | |
| 10-M-DGLaf-141- | Ordinar | Ordinary Differential Equations for students of other subjects | | | | | | | | | | |
| m01 | ECTS 10 Duration | | | n | 1 semester | Method of grading | g numerical grade | Modul level | undergraduate | | | |
| | Courses | 5 | <u> </u> | V + Ü | (no information o | n SWS (weekly contac | t hours) and course language | ge available) | | | | |
| | Method | of asse | essment | written examination (approx. 90 to 180 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | | |
| 10-M-NM1af-141- | Numeri | cal Matl | nematics | 1 for s | tudents of other s | subjects | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | g numerical grade | Modul level | undergraduate | | | |
| | Courses | 5 | | V + Ü (no information on SWS (weekly contact hours) and course language available) | | | | | | | | |
| | Method of assessment | | | written examination (approx. 90 to 180 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | | |
| 10-M-NM2af-141- | Numerical Mathematics 2 for students of other subjects | | | | | | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | g numerical grade | Modul level | undergraduate | | | |
| | Courses | 5 | | V + Ü | no information o | n SWS (weekly contac | t hours) and course languag | ge available) | | | | |
| | Method | of asse | essment | written examination (approx. 90 to 180 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | | |
| 10-M=ARTH-141- | Introdu | ction to | Control | Theory | | | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | g numerical grade | Modul level | graduate | | | |
| | Courses | | | V + Ü (no information on SWS (weekly contact hours) and course language available) | | | | | | | | |
| | Method of assessment | | | written examination (approx. 90 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Assessment offered: Assessment offered in the semester in which the course is offered and in the subsequent semester, cour- se offered on demand or every four semesters. Language of assessment: German, English | | | | | | | | |

| 10-I-AKLR-141-m01 | Selected Chapters of Aerospace Science and Engineering | | | | | | | | | |
|-------------------|--|-------------|---|--|---------------------|-------------------------------|-------------|---------------|--|--|
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü | V + Ü (no information on SWS (weekly contact hours) and course language available) | | | | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | |
| 10-I-AKI-141-m01 | Selected Chapters of Computer Science | | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü | (no information on | SWS (weekly contact | hours) and course language av | ailable) | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | |
| 10-l-3D-141-m01 | 3D Point Clou | ud Processi | ing | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü (no information on SWS (weekly contact hours) and course language available) | | | | | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | |
| 10-I-DB-141-m01 | Data Bases | | | | | | | | | |
| | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + U (no information on SWS (weekly contact hours) and course language available) | | | | | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | |
| 10-I-BS-141-m01 | Operating Sy | stems | | | | | | | | |
| | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + Ü (no information on SWS (weekly contact hours) and course language available) | | | | | | | |
| | 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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English | | | | | | | |

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| 11-A4-141-m01 | Astrophysics | | | | | | | | | |
|---------------------------|--|------------|--|---|----------------------|---|-------------|---------------|--|--|
| | ECTS 6 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V + S | V + S (no information on SWS (weekly contact hours) and course language available) | | | | | | |
| | Method of ass | essment | a) written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) or b) oral examination of one candidate each or oral examination in groups (approx. 30 minutes per candidate, for modules with less than 4 ECTS credits approx. 20 minutes) or c) project report (8 to 10 pages, time to complete: 1 to 4 weeks) or d) presentation/seminar presentation (approx. 30 minutes) | | | | | | | |
| | other prerequi | sites | Certain prerequisites may have to be met to qualify for admission to assessment: a) approx. 50% of exercises (approx. 6 to 12 exercise sheets; time to complete: 1 to 2 weeks each) to be completed correctly or b) preparing and delivering a seminar presentation or c) preparing a report on the progress and/or results of a project (approx. 8 to 10 pages). | | | | | | | |
| 11-P-LRB-141-m01 | Laboratory Course Physics B for Space- and Aerospace Computer Science | | | | | | | | | |
| | ECTS 4 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | P (no | information on SWS | 6 (weekly contact ho | urs) and course language availa | able) | | | |
| | Method of ass | essment | a) Pre am) is 30 mi not su | a) Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (ex- am) is passed. Experiments that were not successfully completed can be repeated once. And b) talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed. | | | | | | |
| | Modules succe completed | essfully | 11-P-P | 11-P-PA | | | | | | |
| | Additional Info | rmation | Additional information on module duration: 1 to 2 semesters. | | | | | | | |
| 11-P-LRC-141-m01 | 1 Laboratory Course Physics C for Space- and Aerospace Computer Science | | | | | | | | | |
| | ECTS 4 | Duratio | <u>n</u> | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | P (no | P (no information on SWS (weekly contact hours) and course language available) | | | | | | |
| | Method of asso | essment | a) Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (exam) is passed. Experiments that were not successfully completed can be repeated once. And b) talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed. | | | | | | | |
| | Modules succe completed | essfully | 11-P-PA and 11-P-LRB | | | | | | | |
| | Additional Info | rmation | Additional information on module duration: 1 to 2 semesters. | | | | | | | |
| Subject-specific Ke | y Skills (17 ECT | S credits) | | | | | | | | |
| 10-I-LRLA-141-m01 | Aerospace Laboratory | | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | 1 | V + Ü | (no information on : | SWS (weekly contact | hours) and course language a | vailable) | | | |
| | Method of ass | essment | completion of approx. 6 practical exercises (approx. 4 hours each) | | | | | | | |
| 10-I-LRS1-141-m01 | Seminar for st | udents of | Space | - and Aerospace Co | mputer Science 1 | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | S (no | information on SWS | (weekly contact ho | urs) and course language availa | able) | | | |
| | Method of ass | essment | talk (approx. 30 to 45 minutes) and written elab | | | aboration (approx. 5 to 10 pages) or film (running time approx. 15 to 20 minutes) | | | | |
| Bachelor's with 1 major A | 1 major Aerospace Computer Science (2014) JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 82 f25 - - H 2014 page 11 / 12 | | | | | | | | | |

| 10-I-LRS2-141-m01 | Seminar for students of Space- and Aerospace Computer Science 2 | | | | | | | | | | |
|-------------------|---|---|-------------|---------------|------------|-------------------|-----------------|-------------|---------------|--|--|
| | ECTS | 5 | Duration | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | ble) | | | | | | | |
| | Metho | ethod of assessment talk (approx. 30 to 45 minutes) and written elaboration (approx. 5 to 10 pages) or film (running time approx. 15 to 20 minutes) | | | | | | | | | |
| 10-I-PLR-141-m01 | Practical work | | | | | | | | | | |
| | ECTS | 2 | Modul level | undergraduate | | | | | | | |
| | Courses P (no information on SWS (weekly contact hours) and course language available) | | | | | | | | | | |
| | Method of assessment report (approx. 3 to 5 pages) and presentation (approx. 5 to 10 minutes) on practical work | | | | | | | | | | |