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: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, 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 creditable 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 method 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:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS</td>
<td>Duration</td>
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<tr>
<td>Course</td>
<td>Method of grading</td>
</tr>
<tr>
<td>Courses</td>
<td>To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y</td>
</tr>
<tr>
<td>Method of assessment</td>
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<tr>
<td>Only after successful completion of</td>
<td>if applicable</td>
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<tr>
<td>Other prerequisites</td>
<td>if applicable</td>
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<tr>
<td>Participants and allocation of places</td>
<td>if applicable</td>
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<tr>
<td>Additional information</td>
<td>if applicable</td>
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<tr>
<td>Referred to in LPO I</td>
<td>if applicable (examination regulations for teaching-degree programmes)</td>
</tr>
</tbody>
</table>

Bachelor's with 1 major Aerospace Computer Science (2015)
### Compulsory Courses (130 ECTS credits)

#### Aerospace Science and Engineering (35 ECTS credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of Grading</th>
<th>Modul Level</th>
<th>Method of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-I-ELRS-152-m01</td>
<td><strong>Introduction to Aerospace Systems</strong></td>
<td>6</td>
<td>2 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
<td>V (2) + Ü (1) + V (2) + Ü (1)</td>
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<td>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</td>
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<tr>
<td>10-I-LRBE-152-m01</td>
<td><strong>Operations of Aerospace Systems</strong></td>
<td>10</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
<td>V (4) + Ü (2)</td>
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<td>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</td>
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<tr>
<td>10-I-LRDN-152-m01</td>
<td><strong>Dynamics of aerospace systems</strong></td>
<td>6</td>
<td>1 semester</td>
<td>numerical grade</td>
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<td>V (2) + Ü (2)</td>
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<td>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</td>
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<tr>
<td>10-I-BDV-152-m01</td>
<td><strong>On board data processing</strong></td>
<td>8</td>
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<td>undergraduate</td>
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<td>written examination (approx. 120 minutes) and approx. 6 practical exercises (approx. 4 hours each), weighted 1:1 creditable for bonus</td>
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<td>10-I-LMT-152-m01</td>
<td><strong>Measurement Technique</strong></td>
<td>5</td>
<td>1 semester</td>
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<td>undergraduate</td>
<td>V (2) + Ü (2)</td>
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<tr>
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<td>§ 69 I Nr. 1a</td>
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<td>10-I-PP-152-m01</td>
<td>Practical Course in Programming</td>
<td>10</td>
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<td>(not) successfully completed</td>
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<tr>
<td>Courses</td>
<td>P (6)</td>
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<td>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 candidate). Language of assessment: German and/or English</td>
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<td>project with presentation (approx. 15 minutes) and</td>
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<td>Mathematics (20 ECTS credits)</td>
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<td>10-M-LRI1-152-m01</td>
<td>Mathematics 1 for students of Space- and Aerospace Computer Science</td>
<td>10</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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<td>Courses:</td>
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<td>V (5) + Ü (2)</td>
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<td>Module taught in: Ü: German or English</td>
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<td>Method of assessment:</td>
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<td>a) written examination (approx. 90 to 120 minutes, usually</td>
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<td>chosen) or b) oral examination of one candidate each (approx.</td>
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<td>20 minutes) or c) oral examination in groups</td>
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<td>(groups of 2, 15 minutes per candidate)</td>
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<td></td>
<td>Language of assessment: German and/or English</td>
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<td>creditable for bonus</td>
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<td>numerical grade</td>
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<td>Courses:</td>
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<td>V (5) + Ü (2)</td>
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<td>Module taught in: Ü: German or English</td>
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<td>Method of assessment:</td>
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<td>a) written examination (approx. 90 to 120 minutes, usually</td>
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<td>chosen) or b) oral examination of one candidate each (approx.</td>
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<td>Language of assessment: German and/or English</td>
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<td>creditable for bonus</td>
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### Basics of Physics (19 ECTS credits)

#### Classical Physics 1 for Students of Physics related Disciplines

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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</tbody>
</table>

**Courses:** V (4) + Ü (2)

Module taught in: Ü: German or English

**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.

**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.

#### Classical Physics 2 for Students of Physics related Disciplines

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<td>7</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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</tbody>
</table>

**Courses:** V (4) + Ü (2)

Module taught in: Ü: German or English

**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.

**Additional Information:**
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Laboratory Course Physics A (Mechanics, Heat, Electromagnetism)

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<tbody>
<tr>
<td>3</td>
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</table>

Courses: P (2)

Method of assessment: practical assignment with talk (approx. 30 minutes)
Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully completed 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.

Data and Error Analysis

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<td>2</td>
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</table>

Courses: V (1) + Ü (1)

Module taught in: Ü: German or English

Method of assessment: written examination (approx. 120 minutes)
Language of assessment: German and/or English

Additional Information: 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.

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.

Compulsory Electives (18 ECTS credits)

Introduction to Programming

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<td>numerical grade</td>
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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 candidate).

Referral: § 53 I Nr. 1 c) § 77 I Nr. 1 d)
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<td>Algorithmic Graph Theory</td>
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<td>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.</td>
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<td>V (2) + Ü (2)</td>
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<td>Method of assessment</td>
<td>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 candidate). Language of assessment: German and/or English. Creditable for bonus.</td>
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<td>German or English</td>
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<td></td>
<td><strong>Method of assessment</strong></td>
<td>a) written examination (approx. 90 to 120 minutes) or 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).</td>
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<td>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.</td>
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<td><strong>Method of assessment</strong></td>
<td>practical assignment with talk (approx. 30 minutes)</td>
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<td>Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully completed 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.</td>
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<td>practical assignment with talk (approx. 30 minutes)</td>
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<td>Preparing, performing and evaluating (record of readings or lab report) the experiments will be considered successfully completed 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.</td>
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<td>Students are highly recommended to complete module 11-P-LRB prior to completing module 11-P-LRC.</td>
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### Key Skills Area (20 ECTS credits)

#### General Key Skills (5 ECTS credits)
All modules offered as part of the pool of general transferable skills (ASQ) that do not come from the area of Informatik (Computer Science) may be accredited.

#### Subject-specific Key Skills (15 ECTS credits)

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<th>ECTS</th>
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<td>Method of assessment</td>
<td>Completion of approx. 6 practical exercises (approx. 4 hours each)</td>
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<td>10-I-LRS1-152-m01</td>
<td>Seminar for students of Space- and Aerospace Computer Science 1</td>
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<td>Method of assessment</td>
<td>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</td>
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<td>10-I-LRS2-152-m01</td>
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<tr>
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<td>Method of assessment</td>
<td>Report (3 to 5 pages) and presentation (approx. 5 to 10 minutes) on practical work</td>
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### Thesis (12 ECTS credits)

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