Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Space Science and Technology as a Master's with 1 major

with the degree "Master of Science" (120 ECTS credits)

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

13-Jul-2015 (2015-24)

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 specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of assessment							
	Only after successful completion of	if applicable						
	Other prerequisites	if applicable						
	Participants and allocation of places	if applicable						
	Additional information	if applicable						
	Referred to in LPO I	if applicable (examination regulations for teaching-degree programmes)						

Compulsory Courses (60 ECTS credits)								
Space Science (30,50 ECTS credits)								
10-I=ISP-152-m01	**Space Physics (Introduction)**							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (4) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 120 minutes) creditable for bonus					
10-I=ORO-152-m01	**Optics- and Radar-based Observations**							
	ECTS	7,50	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (0) + P (0) + T (0) In Lulea/Sweden					
	Method of assessment		written examination (approx. 60 to 120 minutes)					
10-I=SP-152-m01	**Image Processing and Remote Sensing (Space Physics)**							
	ECTS	7,50	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (0) + P (0) + T (0) In Lulea/Sweden					
	Method of assessment		written examination (approx. 60 to 120 minutes)					
10-I=SEI-152-m01	**Spacecraft Environment Interactions**							
	ECTS	7,50	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (0) + P (0) In Lulea/Sweden					
	Method of assessment		written examination (approx. 60 to 120 minutes)					
Space Technology (29,50 ECTS credits)								
10-I=CSD-152-m01	**CanSat / FloatSat Design Workshop**							
	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		R (6)					
	Method of assessment		project and oral presentation delivered by one candidate each, weighted 4:1					
10-I=SSD-152-m01	**Spacecraft System Design**							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (4) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 120 minutes) creditable for bonus					
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): ES, LR					
	Referred to in LPO I		§ 22 II Nr. 3 b)					

10-I=SD-152-m01	**Space Dynamics**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 120 minutes) creditable for bonus					
10-I=EIS-152-m01	**Electronics in Space**							
	ECTS	7,50	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (0) + P (0) In Lulea/Sweden					
	Method of assessment		written examination (approx. 60 to 120 minutes)					
Compulsory Electives (30 ECTS credits)								
10-I=TDP-152-m01	**Team Design Project**							
	ECTS	9	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		R (6)					
	Method of assessment		a) written examination (approx. 60 to 90 minutes) or b) project (approx. 20 pages) or c) oral examination of one candidate each or oral examination in groups (15 to 30 minutes per candidate)					
10-I=AA-152-m01	**Advanced Automation**							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (4) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 120 minutes) creditable for bonus					
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT,IS,ES,LR,GE					
	Referred to in LPO I		§ 22 II Nr. 3 b)					
10-I=RO1-152-m01	**Robotics 1**							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (4) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 90 minutes) creditable for bonus					
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IS,ES,LR,HCI					
	Referred to in LPO I		§ 22 II Nr. 3 b)					

10-I=RO2-152-m01	**Robotics 2**							
	ECTS	8	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (4) + Ü (2)					
	Method of assessment		written examination (approx. 60 to 90 minutes) creditable for bonus					
	Additional Information		Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT, ES, LR					
	Referred to in LPO I		§ 22 II Nr. 3 b)					
10-I=SA-152-m01	**Aerospace Seminar**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2)					
	Method of assessment		Seminar paper (approx. 20 pages)					
	Referred to in LPO I		§ 22 II Nr. 3 b)					
10-I=ATAI-152-m01	**Advanced Topics in Aerospace and Informatics**							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (2)					
	Method of assessment		written examination (60 to 120 minutes) Language of assessment: English creditable for bonus					
Thesis (30 ECTS credits)								
10-I=The-sisSST-152-m01	**Master's Thesis Space Science and Technology**							
	ECTS	25	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		written thesis (50 to 100 pages)					
	Additional Information		Time to complete: 6 months					
10-I=DEF-152-m01	**Oral Examination Space Science and Technology**							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		K (0)					
	Method of assessment		final colloquium (approx. 60 minutes) comprising: talk on thesis (45 minutes) and subsequent defence of thesis (15 minutes); defence usually public					
	Modules successfully completed		10-I=ThesisSST					