

## Module description

Module title					Abbreviation
Spacecraft System Analysis 10-I=SSA-182-mo1					
Module coordinator				Module offered by	
holder	of the	Chair of Computer Science	e VII	Institute of Computer Science	
ECTS Method of grading		Only after succ. compl. of module(s)			
10	nume	cal grade			
Duration		Module level	Other prerequisites		
1 semester		graduate			
Contents					
Spacecraft system Analysis examines the design of spacecraft and launch vehicles, including the impacts of the atmosphere and the space environment on requirements and configurations. The principles and design aspects of the structure, propulsion, power, thermal, communication, and control subsystems are studied.  Intended learning outcomes					
the course students will learn to translate mission requirements in to orbit and subsystem definitions. Thermal and Mechanical qualification including testing for space is additionally covered.  Courses (type, number of weekly contact hours, language — if other than German)					
$V(4) + \ddot{U}(2) + E(2)$ Module taught in: English					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 90 to 120 minutes) and field trip report (4 to 8 pages) Language of assessment: English creditable for bonus					
Allocation of places					
Additional information					
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
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Module	e appea	ars in			

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Master's degree (1 major) Satellite Technology (2018)