

## Module description

Module title					Abbreviation
Design of Planetary Bases and Orbital Stations 10-LURI=EPB-232-mo1					
Module coordinator				Module offered by	
holder of the Chair of Computer Science			VIII Institute of Computer Science		
ECTS	ECTS Method of grading		Only after succ. compl. of module(s)		
10 nume		rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate			
Contents					
components like satellites. The content will be decided upon each semester (for example lunar base, mars base etc) The most important aspects like motivation, goals, prerequisites, constraints, environment, localization, construction and operation scenarios, planning of modules and structures, lifesupport, energy, communication, production, transport between earth and moon as well as mobility on the surface of the moon will be conceptually layed out and analyzed.					
Intended learning outcomes					
support of the acquired knowledge of methods they are able to create dedicated tools and processes to support the planning in the area of planetary bases and orbital stations. Also projectmanagement for the development of planetary bases and orbital stations will be trained.  Courses (type, number of weekly contact hours, language — if other than German)  R (8)  Module taught in: German and/or 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)					
project report (10 to 15 pages) and presentation of project (15 to 30 minutes)					
Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester					
Allocation of places					
Additional information					
Workload					
300 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					

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Master's degree (1 major) Aerospace Computer Science (2023)