Module title	Abbreviation
Space Systems Design	10-LURI=RSE-232-m01

Module coordinator	Module offered by
holder of the Chair of Computer Science VIII	Institute of Computer Science

ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	

Duration	Module level	Other prerequisites	
1 semester	graduate	--	

Contents

In the course of a semesterproject, a spacecraft system will be designed in a team. The selection of the space-craftsystem is done anew each semester and draws inspiration from current trends and concrete research, often from the area of microsatellites, like "design of a nanosatellitemission for detection and observation of transient lunar phenomenons (TLP)".

Intended learning outcomes

The students gain fundamental knowledge about the design of spacecraft systems. They are able to analyse the elementary design aspects, create requirements accordingly and consider them in their system design. With the help of the acquired knowledge of methods they are able to create dedicated tools and methods to support the design in the area of spacecraft systems. Also projectmanagement for the development of spacecraft systems will be trained.

Courses (type, number of weekly contact hours, language — if other than German)

R (8)
Module taught in: German and/or English

Method of assessment (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

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Additional information

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Workload

300 h

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

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