## Module title
Space Dynamics

## Abbreviation
10-I=SD-182-m01

## Module coordinator
holder of the Chair of Computer Science VII

## Module offered by
Institute of Computer Science

## ECTS
5

## Method of grading
numerical grade

## Only after succ. compl. of module(s)
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## Duration
1 semester

## Module level
graduate

## Other prerequisites
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## Contents
Fundamental principles of astrodynamics, orientation control of satellites, sensors, actuators, control software, example realisations, spin-stabilised satellites, 3-axis stabilised satellites.

## Intended learning outcomes
The students master the fundamentals of dynamic aspects of the design of spacecraft and are familiar with the essential sensors and actuators as well as their areas of use in spaceflight.

## Courses (type, number of weekly contact hours, language — if other than German)
V (2) + Ü (2)
Module taught in: 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)
written examination (approx. 90 to 120 minutes)
Language of assessment: English
creditable for bonus

## Allocation of places
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## Additional information
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## Workload
150 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) Satellite Technology (2018)