



Technische  
Universität  
Braunschweig



# Space Technology Laboratory Introductory Session Summer Semester 2026

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14 April 2026

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# Agenda

- Organisation
- Structure
- Experiment overview
- Experiments and Submission Deadlines
- Group Allocation
- Remarks and Questions

# Organisation – Supervision

## Points of contact for organizational questions about the Space Technology Laboratory

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# Organisation – Module: Satellite Technology with Lab

## Module consists of Lecture and Exercise “Satellite Technology” (5/11 ECTS) + Lab “Satellite Technology Laboratory” (6/11 ECTS)

- Recommended to have lecture in the same semester as the lab
- “Satellite Technology” can be taken without the Lab (“Profilbereich” or elective “Wahlbereich”)

### Lecture and Exercise

- Tuesdays 13:15 to 15:45, [teresa.klinner-teo@tu-braunschweig.de](mailto:teresa.klinner-teo@tu-braunschweig.de)
- Assessment: Written exam for the Satellite Technology lecture

### Lab

- Introductory session
- 3 experiments spread throughout the summer semester

# Structure - General

Written  
assignment



Experiment  
attendance



Lab report

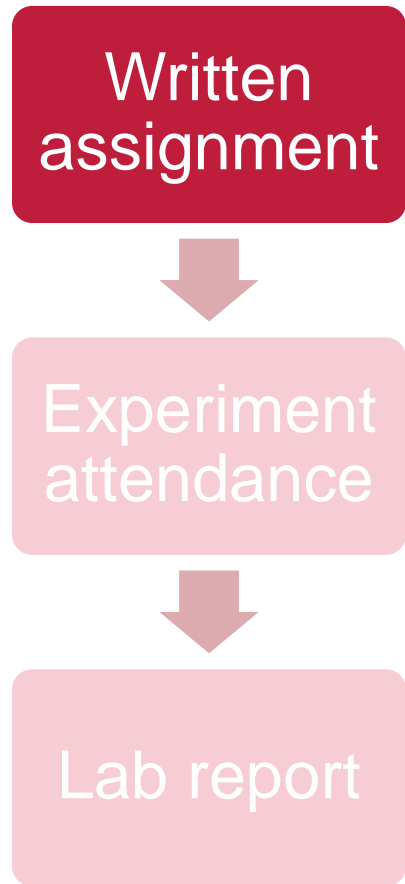
## Organisation

- Organisation and information exchange via StudIP („Labor: Raumfahrttechnikfachlabor“)
- Materials provided in StudIP

## General:

- 6 ECTS → 2 ECTS = 60 h / Experiment
- Every experiments (written assignment & report) must be passed individually to pass the laboratory module
- Average grade from all experiments
- Group work: 4-5 students

# Structure – Written Assignment



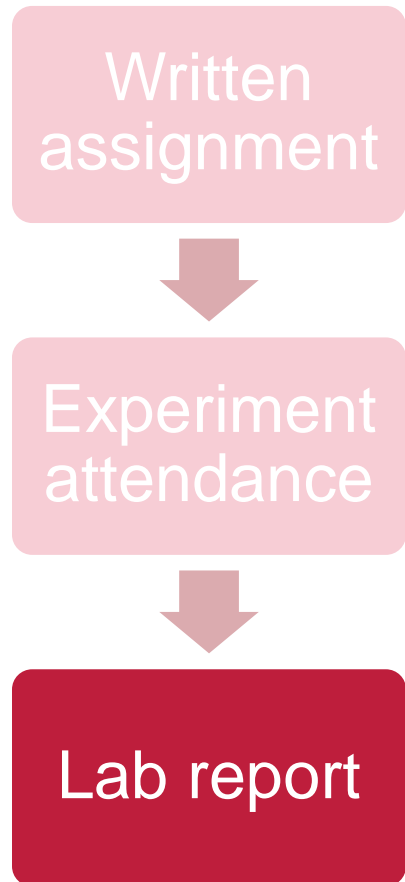
- Mandatory submission of a written assignment before the experiment
  - Theory has to be prepared
- Details about the individual assignments to be shared by the respective experiment supervisors

# Structure – Experiments



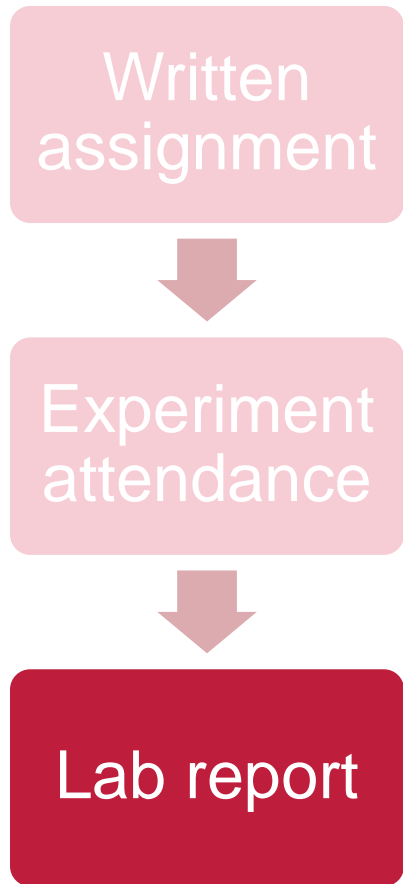
- Dates are subject to change → announcement via StudIP
- Experiments scheduled min. two weeks before report submission deadline

# Structure – Lab Report (1)



- **Preparation of the report is a group task**
  - Distribution of tasks must be decided within the groups
  - Practicing communication in a project team is a key learning objective of this course
- [Overleaf template](#)
  - Includes guidelines for the report
- Commonly 15 – 30 pages in total per report
- Focus in the report on the analysis and discussion of the results and if applicable the tasks specified in the script
- Report language: English
- Use of AI is allowed, but it needs to be transparently indicated where and how it was used
  - The content is graded. Empty AI phrases will lead to point deduction.

# Structure – Lab Report (2)



- Submission: report as a PDF-file and code (if applicable) as a ZIP-file via StudIP uploader folder
  - For confirmation: brief e-mail to organisers that the report has been submitted
  - Naming scheme of the ZIP-file: “**ExperimentX\_GroupY.zip**“

# Experiment Dates and Submission Deadlines

No.	Experiment	Date	Submission	Supervisor
1	Orbit determination of earthbound satellites	Option 1: 22.04.2026 Option 2: 23.04.2026 Option 3: 29.04.2026 (weather dependent) 18:00 – 22:00 Sternfreunde Hondelage	15.05.2026 17:00	Teresa Kliner-Teo <a href="mailto:teresa.kliner-teo@tu-braunschweig.de">teresa.kliner-teo@tu-braunschweig.de</a>
2	Thermal Engineering	18.05.2026 + 19.05.2026 IRAS	11.06.2026 17:00	Declan Jonckers <a href="mailto:d.jonckers@tu-braunschweig.de">d.jonckers@tu-braunschweig.de</a>
3	Orifice Calibration on a rocket engine test bench	17.06.2026 IRAS	03.07.2026 17:00	Justus Caspar <a href="mailto:justus.caspar@tu-braunschweig.de">justus.caspar@tu-braunschweig.de</a>

# Questions?

