### Module title

**Practical course - Rocket Engineering and Payloads**

**Abbreviation**

10-I=PRT-182-m01

### Module coordinator

holder of the Chair of Computer Science VIII

### Module offered by

Institute of Computer Science

### ECTS

10

### Method of grading

(10) successfully completed

### Duration

1 semester

### Module level

graduate

### Other prerequisites

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### Contents

In this internship, students are supposed to acquire practical experience in the design, building, execution and analysis of rocket experiments (including their payload). The goal is the design, building and testing of rocket experiments and their payloads.

### Intended learning outcomes

The students gain fundamental knowledge about the design of spacecraft experiments, fundamental knowledge about rocket science, including launch preparations as well as the execution. They are able to analyse the elementary design aspects of rocket payloads, pose according requirements and respects those in the design. With the aid of the acquired methodic knowledge, they are able to apply dedicated tools and method in bigger projects.

### Courses

**P (6)**

### Method of assessment

Report on practical course (4 to 5 pages) and presentation of results (15 to 30 minutes)

Language of assessment: German and/or English

### Allocation of places

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### Additional information

Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): LR.

Cf. Section 3 Subsection 3 Sentence 8 FSB (subject-specific provisions).

### Referred to in LPO I

(examination regulations for teaching-degree programmes)

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### Module appears in

Master's degree (1 major) Computer Science (2018)