## Module title
Telecommunication Systems Lab

### Abbreviation
10-I=TEL-212-m01

### Module coordinator
Dean of Studies Informatik (Computer Science)

### 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
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#### Other prerequisites
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### Contents
The students realise projects in popular research areas of telecommunications like, e.g.,
- satellite communications,
- non-terrestrial and highly dynamic networks,
- joint communications and sensing,
- free-space optical communications and
- quantum communications.

### Intended learning outcomes
Students will
- gain experience in project planning, organising tasks, setting goals, and managing project timelines,
- apply problem-solving strategies and critical thinking skills to overcome project challenges and find innovative solutions,
- develop effective teamworking skills, including communication, coordination and cooperation within a project team,
- acquire and enhance technical skills and knowledge relevant to the project's subject matter and requirements and
- effectively communicate project progress, findings and outcomes to team members and wider audiences.

### Courses

<table>
<thead>
<tr>
<th>(type, number of weekly contact hours, language — if other than German)</th>
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<td>V (2) + P (4)</td>
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Module taught in: English

### Method of assessment

<table>
<thead>
<tr>
<th>(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)</th>
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<tbody>
<tr>
<td>a) written examination (approx. 20 minutes) or</td>
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<td>b) oral group examination (max. 3 candidates, approx. 15 minutes each) or</td>
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<td>c) report (4-8pages)</td>
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Language of assessment: 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

### 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) Computer Science (2021)
Master's degree (1 major) Aerospace Computer Science (2021)