### Module description

<table>
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<tr>
<th>Operating Systems</th>
<th>10-I-BS-152-m01</th>
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**Module coordinator**
holder of the Chair of Computer Science II

**Module offered by**
Institute of Computer Science

**ECTS**
5

**Method of grading**
umerical grade

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

**Module level**
undergraduate

**Other prerequisites**
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### Contents

Introduction to computer systems, development of operating systems, architecture principles, interrupt processing in operating systems, processes and threads, CPU scheduling, synchronisation and communication, memory management, device and file management, operating system virtualisation.

### Intended learning outcomes

The students possess knowledge and practical skills in building and using essential parts of operating systems.

### Courses

<table>
<thead>
<tr>
<th>type</th>
<th>number of weekly contact hours, language — if other than German</th>
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**Method of assessment**

written examination (approx. 60 to 120 minutes).

If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Language of assessment: German and/or English

### Allocation of places

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### Additional information

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### Referred to in LPO I

(examination regulations for teaching-degree programmes)

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### Module appears in

- Bachelor' degree (1 major) Computer Science (2015)
- Bachelor' degree (1 major) Mathematics (2015)
- Bachelor' degree (1 major) Computational Mathematics (2015)
- Bachelor' degree (1 major) Aerospace Computer Science (2015)
- Master's degree (1 major) Physics (2016)
- Master's degree (1 major) Nanostructure Technology (2016)
- Bachelor' degree (1 major) Aerospace Computer Science (2017)
- Bachelor' degree (1 major) Computer Science (2017)