**Module title**  
Performance Engineering & Benchmarking of Computer Systems

**Abbreviation**  
10-I=PEB-141-m01

**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**  
graduate

**Other prerequisites**  
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**Contents**

Introduction to performance engineering of commercial software systems, performance measurement techniques, benchmarking of commercial software systems, modelling for performance prediction, case studies.

**Intended learning outcomes**

The students possess a fundamental and applicable knowledge in the areas of performance metrics, measurement techniques, multi-factorial variance analysis, data analysis with R, benchmark approaches, modelling with queue networks, modelling methods, resource demand approximation, petri nets.

**Courses**

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<thead>
<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
</tr>
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<tbody>
<tr>
<td>V + Ü</td>
<td>(no information on SWS)</td>
<td>English, German</td>
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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 can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes)

Language of assessment: German, 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**

Master's degree (1 major) Computer Science (2014)