## inf100 - Human Computer Interaction

<table>
<thead>
<tr>
<th>Module label</th>
<th>Human Computer Interaction</th>
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<tbody>
<tr>
<td>Module code</td>
<td>inf100</td>
</tr>
<tr>
<td>Credit points</td>
<td>6.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>180 h</td>
</tr>
</tbody>
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### Used in course of study
- Master's Programme Business Informatics > Bereichswahlmodule
- Master's Programme Computing Science > Praktische Informatik
- Master's Programme Embedded Systems and Microrobotics > Akzentsetzungsmodule
- Master's Programme Engineering of Socio-Technical Systems > Embedded Brain Computer Interaction
- Master's Programme Engineering of Socio-Technical Systems > Human-Computer Interaction

### Contact person
- Module responsibility
  - Susanne Boll-Westermann
  - Die im Modul Lehrenden
- Authorized examiners
  - Susanne Boll-Westermann
  - Die im Modul Lehrenden

### Entry requirements

#### Professional competence
The students:
- Name the human-computer interaction core principles
- Characterise the basic elements of the human-centered design of interactive systems

#### Methodological competence
The students:
- Comprehend context of use and user requirements of human-machine interfaces
- Design, develop and evaluate human-machine interfaces
- Conduct experiments with their prototypes

#### Social competence
The students:
- Implement human-computer interfaces in practical hands-on projects in teams
- Evaluate human-machine interfaces with potential users
- Develop and present solutions for Human-Computer Interaction related problems
- Integrate technical and factual comments into own results

### Module contents
The module introduces the field of human-computer interfaces and their historical context. Moreover, it shows motivating examples of human-computer interaction.
The module covers the core principles of human-computer interaction. In detail, the module deals with the design concepts of interactive systems: context of use, requirements and task analysis, human perception capabilities, design process, usability, prototyping and evaluation. During the practical project a concrete human-computer interface will be designed, developed and evaluated according to these concepts.

### Reader's advisory
- Markus Dahm, Grundlagen der Mensch Computer-Interaktion. Pearson, 2006
- Literature in the reserve shelf in the university bibliography. Link list in Stud.IP.

### Links
- medien.informatik.uni-oldenburg.de/lehre

### Language of instruction
- German

### Duration (semesters)
- 1 Semester

### Module frequency
- once a year

### Module capacity
- unlimited
**Modullevel** | AS (Akzentsetzung / Accentuation)
---|---
**Modulart** | Pflicht o. Wahlpflicht / compulsory or optional
**Lern-/Lehrform / Type of program** | V+P
**Vorkenntnisse / Previous knowledge** | Basic programming skills

### Examination

<table>
<thead>
<tr>
<th><strong>Final exam of module</strong></th>
<th><strong>Time of examination</strong></th>
<th><strong>Type of examination</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The completed practical projects will be presented on a single project day, which will take place at the end of the lecture period. The oral exam takes place within the last two weeks of the term. If necessary, re-examinations will take place at the end of the term. Find out more about the schedule on the websites of the department and in Stud.IP.</td>
<td>Practical group project which progress has to be presented regularly during the tutorials. Oral exam on the topics of the lecture. Practical project and oral exam count 50% each to the final grade. Both practical project and oral exam have to be passed individually.</td>
<td></td>
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</tbody>
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### Course type

<table>
<thead>
<tr>
<th><strong>Course type</strong></th>
<th><strong>Comment</strong></th>
<th><strong>SWS</strong></th>
<th><strong>Frequency</strong></th>
<th><strong>Workload attendance</strong></th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>2.00</td>
<td>SuSe</td>
<td>28 h</td>
</tr>
<tr>
<td>Tutorial</td>
<td></td>
<td>2.00</td>
<td>SuSe</td>
<td>28 h</td>
</tr>
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**Total time of attendance for the module**

56 h