inf336 - Application Area Automotive

<table>
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<tr>
<th>Module label</th>
<th>Application Area Automotive</th>
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<tbody>
<tr>
<td>Module code</td>
<td>inf336</td>
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<tr>
<td>Credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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**Used in course of study**
- Master's Programme Computing Science > Technische Informatik
- Master's Programme Engineering of Socio-Technical Systems > Embedded Brain Computer Interaction
- Master's Programme Engineering of Socio-Technical Systems > Human-Computer Interaction
- Master's Programme Engineering of Socio-Technical Systems > Systems Engineering

**Contact person**

- Module responsibility
  - Frank Köster
  - Die im Modul Lehrenden

**Authorized examiners**
- Die im Modul Lehrenden
- Frank Köster

**Entry requirements**

**Skills to be acquired in this module**

**Professional competences:**

The students:

- Discuss core-concepts of the transportation domain
- Discuss different modes of transportation (focus on the automotive sector)
- Discuss automated and connected driving (short introduction/overview)
- Discuss human factors in the automotive sector
- Discuss traffic infrastructure (focus on intersections)
- Discuss basic principles in traffic management

**Methodological competences:**

The students:

- Analyze vehicle systems
- Analyze traffic infrastructure
- Analyze cooperative vehicle/infrastructure systems
- Analyze socio-technical systems

**Social competences:**

The students:

- Work in teams
- Discuss their outcomes appropriately

**Self-competences:**

The students:

- Acknowledge the limits of their ability to cope with pressure during the work on the topics of the module

**Module contents**

- Core-concepts of the transportation domain
- Modes of transportation (focus on the automotive sector)
- Automated and connected driving (short introduction/overview)
- Human factors in the automotive sector
- Traffic infrastructure (focus on intersections)
- Basic principles in traffic management
Reader’s advisory


Links

<table>
<thead>
<tr>
<th>Language of instruction</th>
<th>English</th>
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<tbody>
<tr>
<td>Duration (semesters)</td>
<td>1 Semester</td>
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<tr>
<td>Module frequency</td>
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<td>Module capacity</td>
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<td>Modulart</td>
<td>AC (Aufbaucurriculum / Composition)</td>
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<tr>
<td>Lern-/Lehrform</td>
<td>Pflicht o. Wahlpflicht / compulsory or optional</td>
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<tr>
<th>Examination</th>
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<th>Type of examination</th>
<th>Practical Work and oral Exam</th>
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<tr>
<td>Final exam of module</td>
<td>At the end of the lecture period</td>
<td>Practical Work and oral Exam</td>
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<th>Comment</th>
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<tr>
<td>Exercises</td>
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| Total time of attendance for the module | 56 h |

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