inf650 - Transport Systems

Module label: Transport Systems
Module code: inf650
Credit points: 6.0 KP
Workload: 180 h

Used in course of study:
- Master's Programme Business Informatics > Akzentsetzungsmodule Bereich Wirtschaftsinformatik
- Master's Programme Computing Science > Angewandte 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:
- Axel Hahn
- Die im Modul Lehrenden

Authorized examiners:
- Axel Hahn
- Die im Modul Lehrenden

Entry requirements:
Skills to be acquired in this module:

Objective of the module/skills:
The Module Transport systems deals with planning and controlling systems of internal and external company logistics as well as public transport. It provides basic knowledge and recent research topics. The focus is on a resource orientated holistic view of company logistics as well as the planning of transport infrastructure. Furthermore, trends such as autonomous vehicles and intelligent transport systems are discussed.

Professional competence
The students:
- name the basics of planning and controlling company logistics
- assess transport systems of companies
- name methods and approaches of computer aided transport systems and classify them
- characterise software to plan complex logistics

Methodological competence
The students:
- display topics and concepts of transport systems
- simulate transport and its systems with appropriate methods

Social competence
The students:
- work in groups
- discuss their results appropriately

Self-competence
The students:
- realise their limits while working on a project containing aspects of modelling and implementation
- question the presentation of their results

Module contents:
- Transport and logistics concepts
- Data acquisition of company logistics
• Planning- and simulation software for complex logistics- and transport processes
• Energy- and resource efficient transport systems
• Resource oriented transport cost calculations (e.g. CO2, noise pollution)
• Planning models for transport infrastructure

Reader’s advisory
Suggested reading:


Links
http://wi-ol.de
Languages of instruction
German, English
Duration (semesters)
1 Semester
Module frequency
jährlich
Module capacity
unlimited
Modullevel
AS (Akzentsetzung / Accentuation)
Modulart
Pflicht o. Wahlpflicht / compulsory or optional
Lern-/Lehrform / Type of program
V+Ü
Vorkenntnisse / Previous knowledge
Produktionsorientierte Wirtschaftsinformatik

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<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
<th>Exercises and written exam</th>
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Total time of attendance for the module
56 h