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 optioal

**Lern-/Lehrform / Type of program**

V+Ü

**Vorkenntnisse / Previous knowledge**

Produktionsorientierte Wirtschaftsinformatik

**Final exam of module**

At the end of the lecture period

**Exercises and written exam**

Exercises and written exam

**Comment**

Time of examination

Type of examination

**Course type**

Lecture

Exercises

**SWS**

2.00

2.00

**Frequency**

SuSe

SuSe

**Workload attendance**

28 h

28 h

**Total time of attendance for the module**

56 h