

Prof. Dr.-Ing. Bernd Noche

Intermodal Transport Chains

Course Syllabus

Summer semester 2018

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Course details

Course Facts

- Course : Intermodal Transport Chains / Intermodale Transportketten
- Semester: Summer
- Duration: 1 Semester
- Classes – day: Tuesdays
- Classes – time: 04:00 p.m – 05:30 p.m.
- Room: MD 162
- Interval: Weekly
 - Check regularly <http://www.uni-due.de/tul/> → “News headlines“and
 - under <http://moodle.uni-due.de> – Intermodale Transportketten – Nachrichtenforum
- First lecture: 04/10/2018
- Last lecture: 07/17/2018
- Holidays: 05/01/2018, 05/22/2018

Lecture Team

Professor

- Prof. Dr.-Ing. Bernd Noche

Office: Duisburg Campus - Building SK - Room 215
 Phone: +49 203 379-2785
 Email: bernd.noch@uni-due.de
 Consultation hours: appointment with the scientific assistant Mrs. Frank

Scientific associates

- Dr.-Ing. Alexander Goudz

Office : Campus Duisburg - Building SK - Room 212
 Phone: +49 203 379-2784
 E-mail: alexander.goudz@uni-due.de
 Consultation hours : flexibel (by appointment!)
 Experiences: Supply Chain Management, Inventory planning and control, Vehicle routing and scheduling, Transportation and logistic system analysis.

Course overview

Instructional Material

Instructional material

- Department's website: <http://www.uni-due.de/tul/> → “Downloads” → “Prof. Dr.-Ing. Bernd Noche” → “Intermodal Transport Chains” → “SoSe 2018”
 - User name: Download
 - Passwort: tulse
- Moodle-Plattform under <http://www.moodle.uni-due.de> → Intermodale Transportketten SoSe 2018
 - Registration key: tulse

Instructional Material [2]

UNIVERSITÄT DUISBURG-ESSEN | Product Engineering | Mechanical and Process Engineering | Engineering | University

Transport Systems and Logistics
Professorship Logistics Engineering

UNIVERSITÄT DUISBURG ESSEN
Open-Minded

Downloads
Home TUL > Downloads - Lecturer > Downloads - Lecturer - Prof. Dr.-Ing. Bernd Noche > Lecture - Accompanying instructional materials

Lecturer - Prof. Dr.-Ing. Bernd Noche
Intermodal Transport Chains
accompanying instructional materials SS 2012

Lecture
by date and chronological sequence

[2012/04/17 - Lecture 1: Intermodal Transport Chains](#) [4.403 KB]
[2012/04/24 - Lecture 2: Intermodal Passenger Transport - Focus: Sustainable People Mobility](#) [1.962 KB]
[2012/05/15 - Lecture 3: Integrated Distribution Network Design](#) [3.935 KB]

Exercise course
by date and chronological sequence

Accompanying introductory materials
by date and chronological sequence

[Recommended reading](#) [108 KB]

Homework
Topic title

[PROFIL](#)
[STUDY PROGRAM LOGISTICS ENGINEERING](#)
[MINIMUM REQUIREMENTS FOR A PH.D STUDY AT THE PROFESSORSHIP TUL](#)
[CONSULTING SERVICE](#)
[INFORMATION BOARD](#)
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A-Z
SEARCH
 DEUTSCH

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Language version of website!



Course policies

Grading

Performance on the course will be assessed with:

- Final exam (Questions alternatively in German and English) 100 %

- Homework (additional to resulting note of final exam)
 - ≥ 13 Points + 1,0
 - ≥ 10 Points + 0,7
 - ≥ 7 Points + 0,3

Note 1: Points of homework can only be granted after passing final exam!

Note 2: Homework – in the Download area. Due date: 07/22/2018

Study material (german/englisch):

- Lectures, practice material and additional material
- Exam examples under <http://www.uni-due.de/tul/> → “Downloads” → “Prof. Dr.-Ing. Bernd Noche” → “Beispiele zu Prüfungsaufgaben zum Lehrgebiet” → “Intermodal Transport Chains course term SoSe”

Note 3: Please bring additional material (tables, etc.) to class lectures!



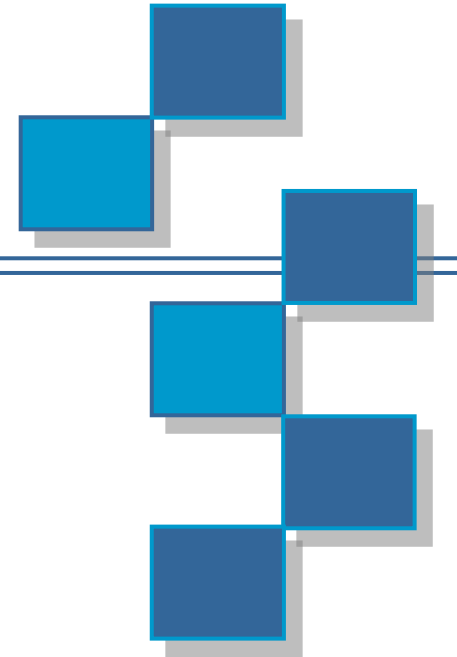
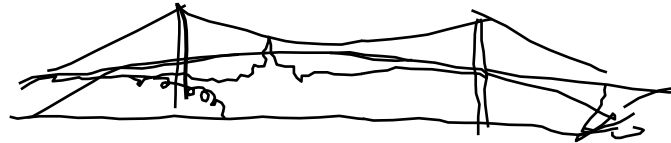
Final Exam Dates

The screenshot shows a web browser window displaying the website <https://www.uni-due.de/tul/index.shtml>. The page features a navigation menu on the left with categories like 'PROFIL', 'MASTER-STUDIENGANG TECHNISCHE LOGISTIK', and 'LEHRE'. The main content area contains several news items, including 'Termine für das SoSe 2016' and 'Ausschreibung Bachelor-/Master-/Diplomarbeiten, Fallstudie/Projektarbeit'. A yellow box highlights a section titled 'Vorlesungen - Seminare - Prüfungen - Klausureinsicht - Prüfungstermine' with details about Prof. Dr.-Ing. Bernd Noche and exam dates for SoSe 2016. The right sidebar contains additional information like 'Fachschaft Logistik' and 'Semesterinformationen'.

Lectures Plan

Lectures

- Intermodal transport chains - introduction
- Design of intermodal transport chains
- Estimation of the tour lengths
- Optimization of route planning: static vs. dynamic
- MODI - approach
- Stepping Stone - Method
- Savings - Procedure
- Modification of savings procedure: heterogeneous fleet, customer time window etc.
- Reload planning
- Genetic algorithms and their application in route planning
Heuristic Algorithms for Vehicle Routing Problems
- Multi-level decision planning under security and at risk



Thank you for your
kind attention!

Prof.Dr.-Ing. Bernd Noche

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