

Prof. Dr.-Ing. Bernd Noche

# Course Syllabus

# Warehouse Logistics

WiSe 2016/2017

Fakultät für Ingenieurwissenschaften  
Abteilung Maschinenbau  
Transportsysteme und -logistik  
Keetmanstraße 3-9  
47058 Duisburg

Telefon: 0203 379-2785  
Telefax: 0203 379-3048  
E-Mail: [bernd.noche@uni-due.de](mailto:bernd.noche@uni-due.de)

## Course Facts

- Course: Lagerlogistik (Logistik und Materialfluss) / Warehouse Logistics (Logistics and Material flow)
- Semester: Winter, 3 SWS
- Duration: 1 Semester
- Classes day: Tuesday
- Classes time: 04:30 p.m. – 06:00 p.m.
- Room: MD 162
- Interval: weekly
  - Check regularly <http://www.uni-due.de/tul/> → “Kurznachrichten“ and
  - under <http://moodle.uni-due.de> – Lagerlogistik (WS16/17) – Nachrichtenforum informieren
- Practice in lecture integrated
- First lecture: 10/17/2016
- Last lecture: 02/06/2017
- No lecture: 12/23/2016 – 01/08/2017 – Christmas holidays

# Lecture Team

## Professor

- Prof. Dr.-Ing. Bernd Noche

Office: Campus Duisburg - Building SK - Room 215

Phone: +49 203 379-2785

E-mail: bernd.noché@uni-due.de

Consultation hours: appointment with the scientific assistant Mrs. Frank(Registration: petra.frank@uni-due.de)



## 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.



# Study material

## Instructional material (german/english)

- Department's website: <http://www.uni-due.de/tul/> → "Downloads" → "Prof. Dr.-Ing. Bernd Noche" → "Warehouse Logistics" → "WS 2016/2017"
  - User name: Download
  - Passwort: tulwise
- Moodle-Plattform under <http://www.moodle.uni-due.de> → Lagerlogistik WS16/17
  - Registration key: tulwise

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

# Grading

Performance on the course will be assessed with:

- Final exam (Questions alternatively in German and English) 100 %  
Two exam dates: 02/14/2017 and 03/14/2017
  
- Homework (additional to resulting note of final exam)
  - $\geq 13$  Points + 1,0
  - $\geq 10$  Points + 0,7
  - $\geq 7$  Points + 0,3

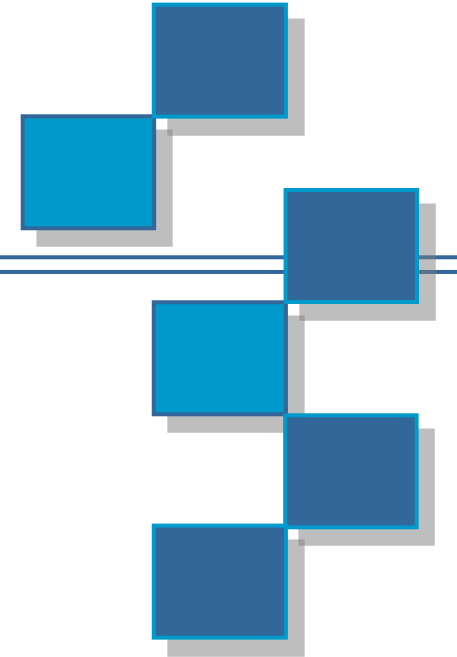
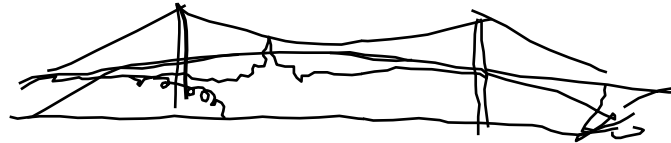
**Note 1:** Points of homework can only be granted after passing final exam!

**Note 2:** Homework, due date: 02/10/2017

# Lecture Topics

## Topics (German/English)

- Knowledge module logistic strategies
- ABC-/XYZ Analysis
- Material requirements planning
- Inventory planning (Safety stock)
- Static, deterministic lot size planning
- Dynamic, deterministic lot size planning
- Stochastic lot size planning
- Dimensioning of storage (static, dynamic)
- Cycle time calculation (fork-lift, RBG)
- Warehouse general planning
- Queuing theory (Markov-chain, M/M/1-Model)
- Queuing theory (Special cases)



Thank you for your  
kind attention!

Prof. Dr.-Ing. Bernd Noche  
Dr.-Ing. Alexander Goudz

E-Mail:

[bernd.noch@uni-due.de](mailto:bernd.noch@uni-due.de)

[alexander.goudz@uni-due.de](mailto:alexander.goudz@uni-due.de)