

# Secure Mobile Networking Lab

## Lab Exercise (Praktikum, 6CP)

## Project (Projektpraktikum, 9CP)

## Teaching Lab (Praktikum in der Lehre, xCP)

### Summer 2016 – Organisation and Rules



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<http://seemoo.de> or <http://www.seemoo.tu-darmstadt.de>



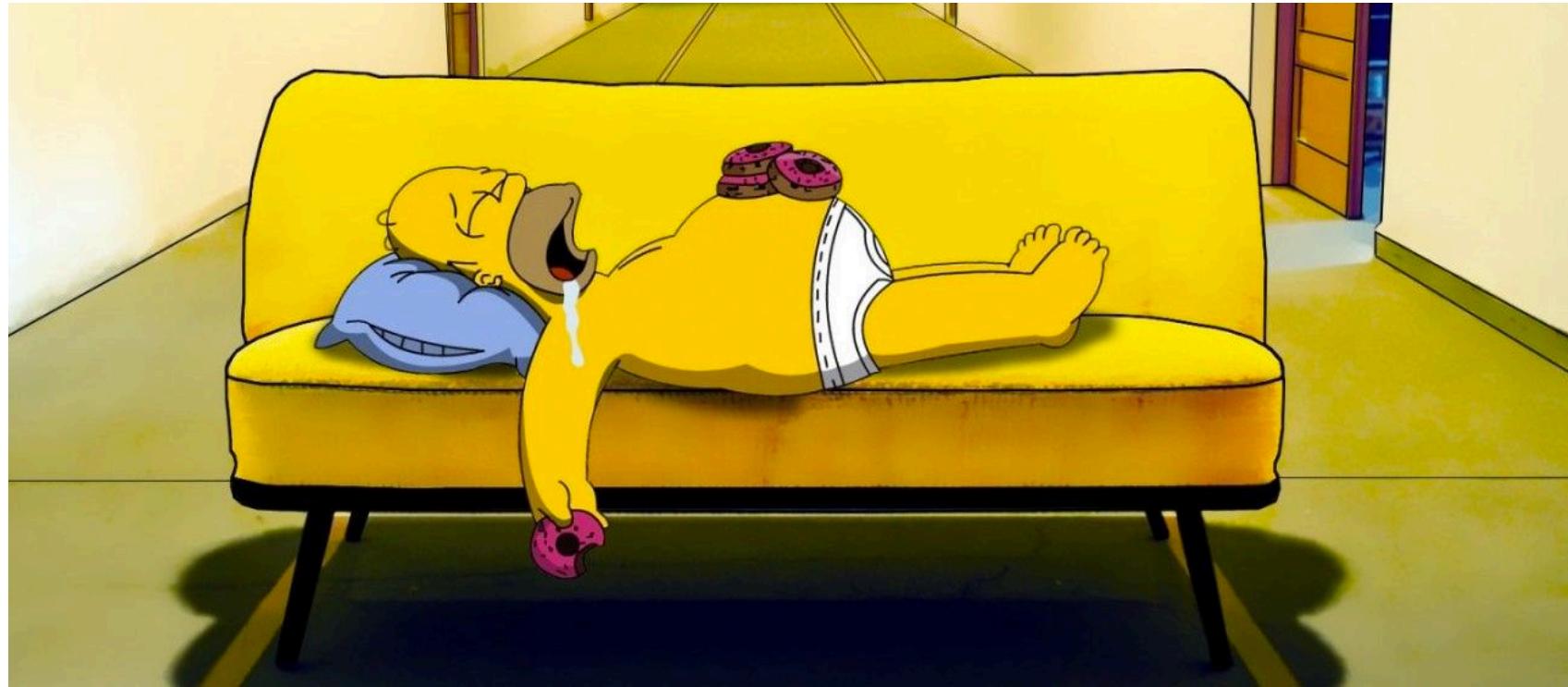
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# General Remarks

How to fail the SEEMOO lab exercise/project

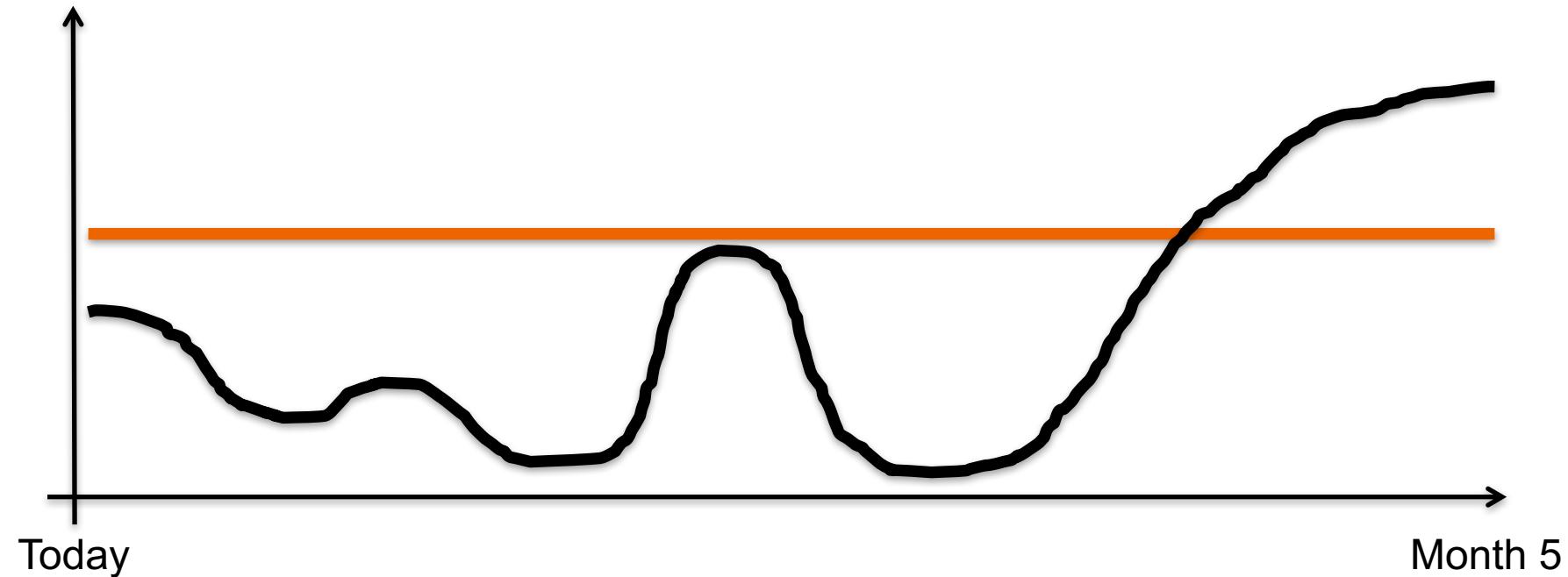
## (1) Laziness



# General Remarks

How to fail the SEEMOO lab exercise/project

(1) Laziness explained



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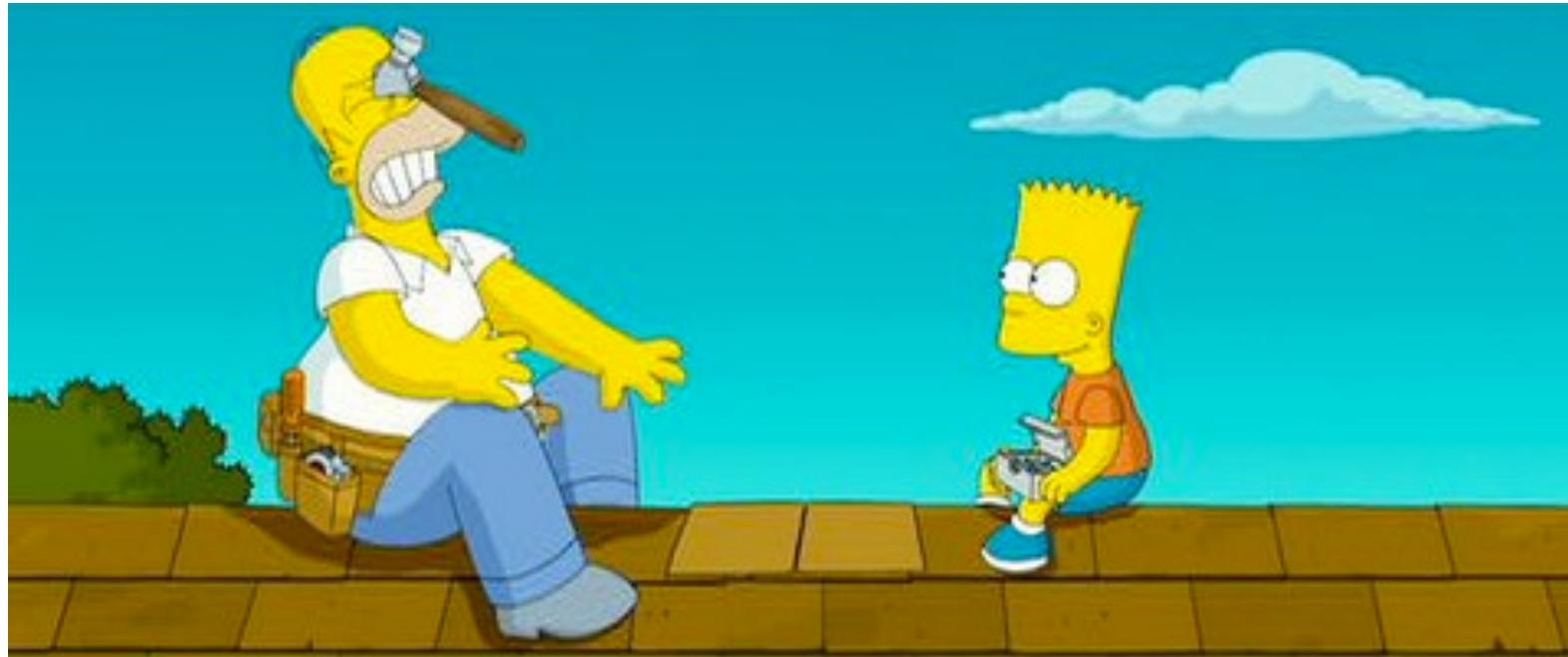
- (1) Laziness
- (2) Insufficient requirements



# General Remarks

How to fail the SEEMOO lab exercise/project

- (1) Laziness
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# General Remarks



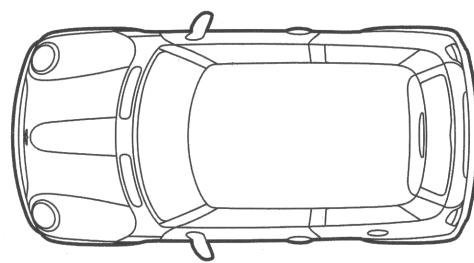
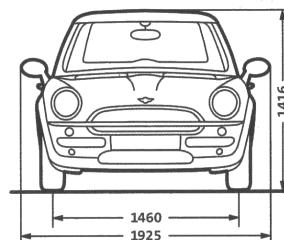
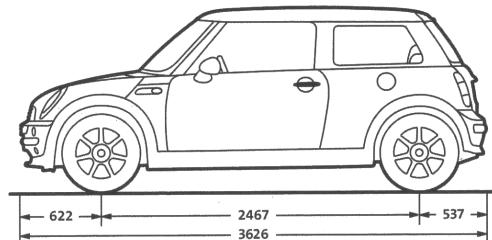
How to fail the SEEMOO lab exercise/project

- (1) Laziness
- (2) Insufficient requirements
- (3) No tangible results, i.e., failure in solving the problem

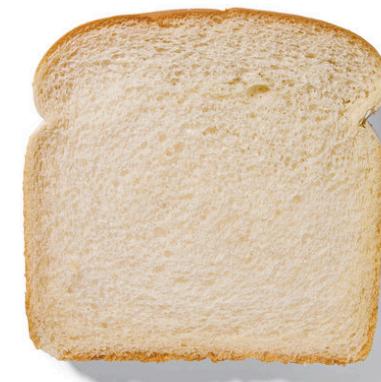
# General Remarks

How to fail the SEEMOO lab exercise/project

- (1) Laziness
- (2) Insufficient requirements
- (3) No tangible results explained



Your Goal



Your handed in Result

# Why Do I Stress This



How to fail the SEEMOO lab exercise/project

- (1) Laziness
- (2) Insufficient requirements
- (3) No tangible results

In summer 2014, we had four teams starting the lab exercise/project

Three teams failed the seminar due to either (1), (2), or (3) or a combination thereof

The fourth teams delivered a very good result and scored 1,0

# How To Get A Good Grade



It should be obvious how to get a good grade in the SEEMOO lab exercise/project:

- work hard and with dedication
- only start if you fulfill the requirements (we will enforce this)
- work towards solving the given problem

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Project (P6, 9CP)

→ Roundabout 270h/Semester.

→ Some ~9h in meetings/talks/etc. some 261h to work as a team

→ 5 months, ca. 13h/week)

Lab Exercise/Praktikum (P4, 6CP)

→ Roundabout 180h/Semester

→ Some ~6h in meetings/talks/etc. some 171h to work as a team

→ 5 months, ca. 8,5h/week)

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## Requirements

- Successfully passed an advanced course at SEEMOO
    - NetSec, MobNet, SeMoSy, PhySec, CriCom
  - You can convince us that you have the implementation skills
  - If you never attended a course at SEEMOO
    - You can demonstrate your experience/knowledge by either showing us a project you worked on, own publications, etc.
- Please contact the respective supervisor to clarify the requirements

# If You Performed Very Well

In winter 2014, we had  
one team that performed  
particularly well.

→ We sent them to  
ACM WiSec in New York  
to present a demo-paper



# Orga

# Overview

## Lab Exercise

- Credits: 6 CP
- Teams of 1-4 persons
- Design, Implementation and Documentation
- Documentation: 20 pages
- Expected Workload:
  - 180h/Semester
  - 8,5h/week

We expect you to dig deeper

## Project

- Credits: 9 CP
- Teams of 2-4 persons
- Design, Implementation, Documentation and Project Plan
- Advanced Tasks
- Documentation: 30 pages
- Expected Workload:
  - 270h/Semester
  - 13h/week

We expect you to dig much deeper

# Overview



## Legend:

- Black text applies to both lab exercise and project
- Orange text applies to the project only

## How to work

- Task: To work on a topic (practical research) in team
  - Research, design of a concept, implementation of a prototype
  - Report and Documentation
- Regular meetings with the advisor (1-2x per month)
  - It is the responsibility of the team to contact the advisor
  - PP: Protocol, send meeting report within 3 days to the advisor

# Rules

## Rules and hints

- All deadlines are hard deadlines (no extended deadlines)
- We follow scientific standards for lab and project
  - Plagiarism is unacceptable, see the rules of TU Darmstadt  
<http://www.informatik.tu-darmstadt.de/index.php?id=202>  
<https://www.uottawa.ca/about/sites/www.uottawa.ca.about/files/plagiarism.pdf> (in English)
- Along with the topic we provide some basic literature
- We will provide templates for slides/report/**documentation**

# Deliverables I

## Report

- Consist of ~20 pages (~30 pages) of content  
(not including cover, index, etc.)
- Content: project description, project plan, SW-documentation, and “user manual”
- Outline (example):
  - Introduction
  - Schedule, distribution of tasks, detailed project plan
  - Fundamentals, state-of-the-art
  - Methods, approach, design
  - Implementation (technical part), user manual
  - Summary
  - Bibliography
- Goal: the documentation must be detailed enough to allow for the continuation of the work

# Deliverables II



## Code

- Source code repository, executables
- Code must be documented (comply with conventions)
  - See, e.g., Robert C. Martin: CleanCode – A Handbook of Agile Software Craftsmanship

## Final presentation

- 10 Min. presentation
- 10 Min. live demo
- Questions and Answers

# Schedule Summer 2016

W1	THU, 14.04.2016	Meeting	Kick-off and selection of topics	18:05-18:50, S2/02 C120
W2		Meeting	Check skills with advisors <b>Workshop project management</b>	Tbd.
W3	THU, 28.04.2016	Deliver	Project definition, project schedule, tasks distribution <b>PP: formalize project definition</b>	Upload until 23:00 in Moodle
W5	THU, 12.05.2016	Deliver	Software design <b>PP: document progress</b>	Design has to be agreed with advisor, revisions have to be included in upload. Upload until 23:00 in Moodle
W9	THU, 09.06.2016	Deliver (Alpha Version)	Intermediate version of developed code <b>PP: document progress</b>	Has to be presented/demo'ed to advisor, change requests Upload until 23:00 in Moodle
W15	THU, 21.07.2016	Deliver (Beta Version)	Intermediate version of developed code, "better working as in Alpha" <b>PP: document progress</b>	Has to be presented/demo'ed to advisor, change requests for final Upload until 23:00 in Moodle
W20	THU, 25.08.2016	Deliver (Final Version)	Final version of developed code, including all change requests by advisor <b>PP: draft of documentation</b>	Upload until 23:00 in Moodle , Feedback within a week
W21	THU, 01.09.2016	Deliver	Final slides, final report <b>PP: final documentation</b>	Upload until 23:00 in Moodle
W21	02.09.2016	Meeting	Final presentation and code demo	Tbd.

# Topic selection

# Group Work

We highly recommend to look for other students with similar interests and register as group

- better experience
- more fun
- better results

Combine your expertise and apply for topics that matches your group size!

We cannot guarantee to assign you a topic that does not match your team size.

Discuss your preferences directly after the kick-off or online on our Moodle platform.



# Registration and Topic Selection



The course will be managed using the course portal Moodle

- <https://moodle.informatik.tu-darmstadt.de/course/view.php?id=41>

## Topic Selection

- Choose your top 3 priority topics
- State your team members
- Motivate your skills and background
- Until tomorrow 12:00 noon

Enrollment key:  
HandsOnWireless2016

## Next Steps

- Topics will be distributed according to your priority and background
- We announce topic assignments until tomorrow evening
- Contact your responsible supervisor for further instructions

# Contact



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