

## Script generated by TTT

Title: Petter: Programmiersprachen (08.10.2014)

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## Overall Structure

This course is given by

- Michael Petter (*MP*): petter@in.tum.de
- Axel Simon (*AS*): Axel.Simon@in.tum.de
- there are 12 lectures
- there will be a written exam
- there is no repeat exam



## Programming Languages

Dr. Axel Simon and Dr. Michael Petter

Winter term 2014



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- Axel Simon (*AS*): Axel.Simon@in.tum.de
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We present selected topics that focus on current issues in the design or implementation of programming languages:

- concurrency (*AS*)
- object orientation (*MP*)





## 1. Concurrency (AS)

- 1 Low-Level Concurrency, Memory Barriers
- 2 Wait-Free Algorithms
- 3 Locks and Monitors
- 4 Transactional Memory

## 2. Object Orientation (MP)

- 1 Method dispatching
- 2 Multiple Inheritance
- 3 Mixins and Traits
- 4 Prototype based Languages
- 5 Aspect Orientation
- 6 Generics and Templates



## Lectures:

- every Wednesday at 14:15pm
- no lectures on bank holidays: 19.11., 24.12., 31.12.
- slides on <http://www2.in.tum.de/hp/Main?nid=233>
- lectures are recorded using the tele-teaching tool



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## Tutorial sessions:

- every Friday at 10.00am in this room (H2), starting Oct. 17
- there are exercises to complete at home
- solutions to these exercises will be presented
- be there!
  - ▶ if you have questions of the general kind ←
  - ▶ if you have problems with the exercise sheet ←

