

Overview & Lecture Outline



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Downloads
URL
http://www.thewhitespace.de/teaching/sarch13
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The goal of this lecture is to improve your ability to design and implement object-oriented software systems.

3

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- · Plan: This lecture consists of three parts...
 - 1. Design Principles (2 sessions)
 - 2.Design Patterns (3 sessions)
 - 3.Enterprise Architecture (2 session)

Basic programming skills are required.

- Knowledge of OOP concepts is necessary; i.e., you should understand the following terms:
 - · class, interface
 - object
 - inheritance
 - polymorphism
- · Good knowledge of the Java programming language
- Working knowledge of UML
- Basic understanding of "Agile Software Development Processes"

The Humble Programmer Communications of the ACM, Vol. 15, Issue 10, 1972

As long as there were no machines, programming was no problem at all; when we had a few weak computers, programming became a mild problem, and now we have gigantic computers, programming has become a gigantic problem.



- Lecture: usually Fridays 14:00-17:15 (including a 15 minutes break), some dates don't follow this rule (see plan!)
- The slides are in English
 (Key terms will be translated to German.)
- Written exam: to be announced

- Design Patterns Elements of Reusable Object-Oriented Software; Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides; Addison-Wesley, 1995
- Patterns of Enterprise Application Architecture; Martin Fowler; Addison-Wesley, 2012



