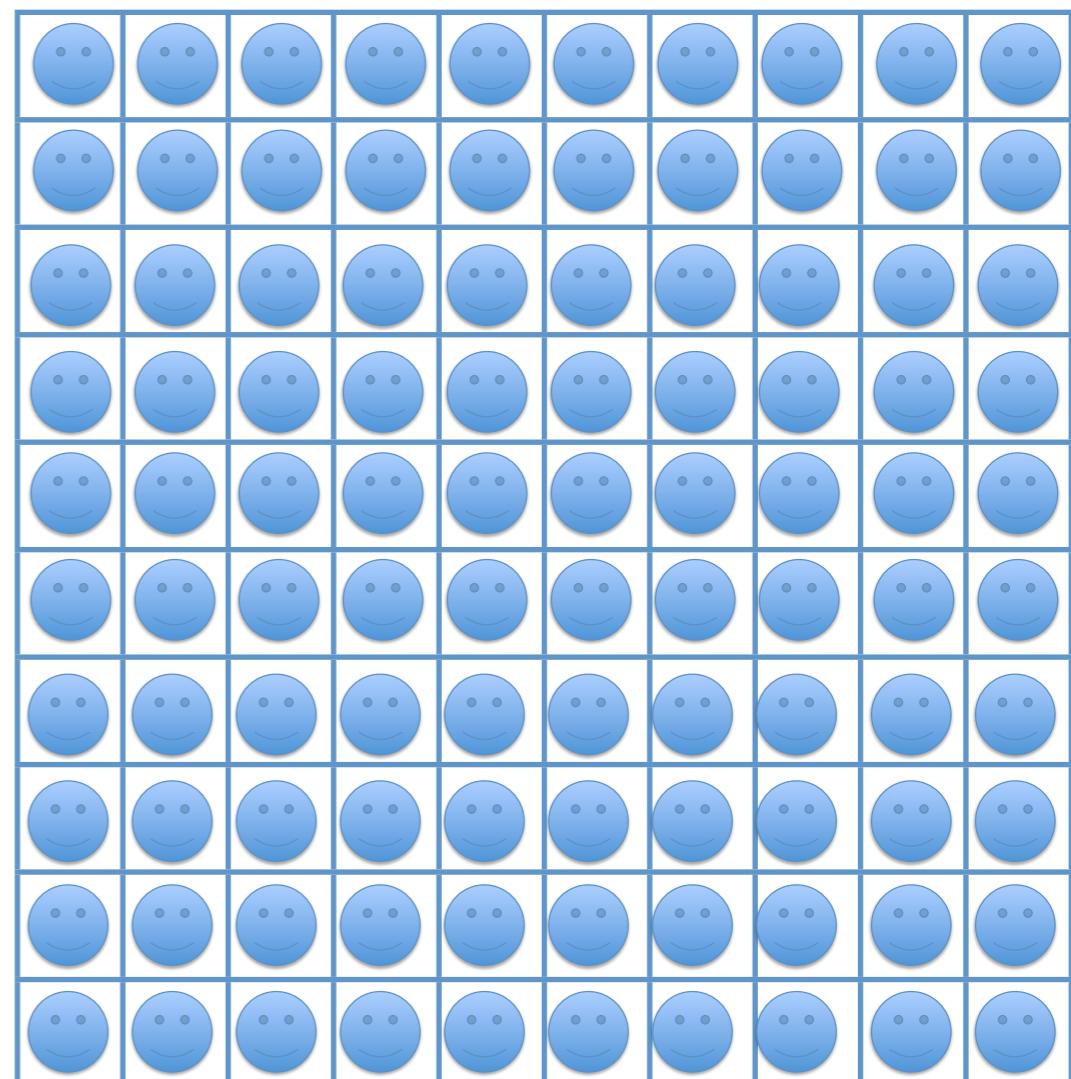


NO



YES

Dr. Michael Eichberg
Software Technology Group
Department of Computer Science
Technische Universität Darmstadt

Introduction to Software Engineering

Organization



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Teaser



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**“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.**



E.W. Dijkstra

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

The Team



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The Team

Organization | 6



Dr. Michael Eichberg



Ralf Mitschke



Johannes Lerch

Contact

WWW

http://www.stg.tu-darmstadt.de/teaching/courses/ws2011/eise_ws2011

Forum

<http://www.d120.de/forum/>

→kanonische Einführungsveranstaltungen

→Einführung in Software Engineering

The Team



Dr. Michael Eichberg

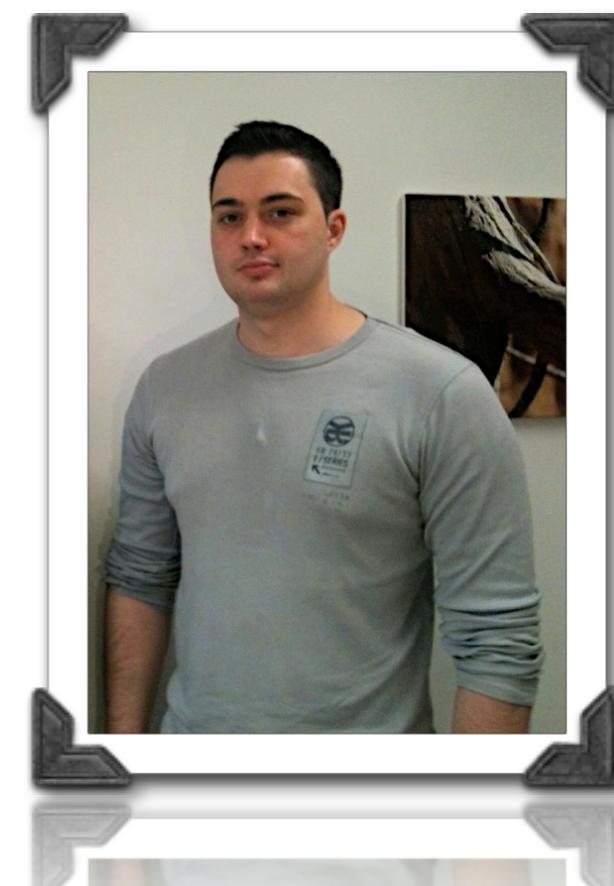
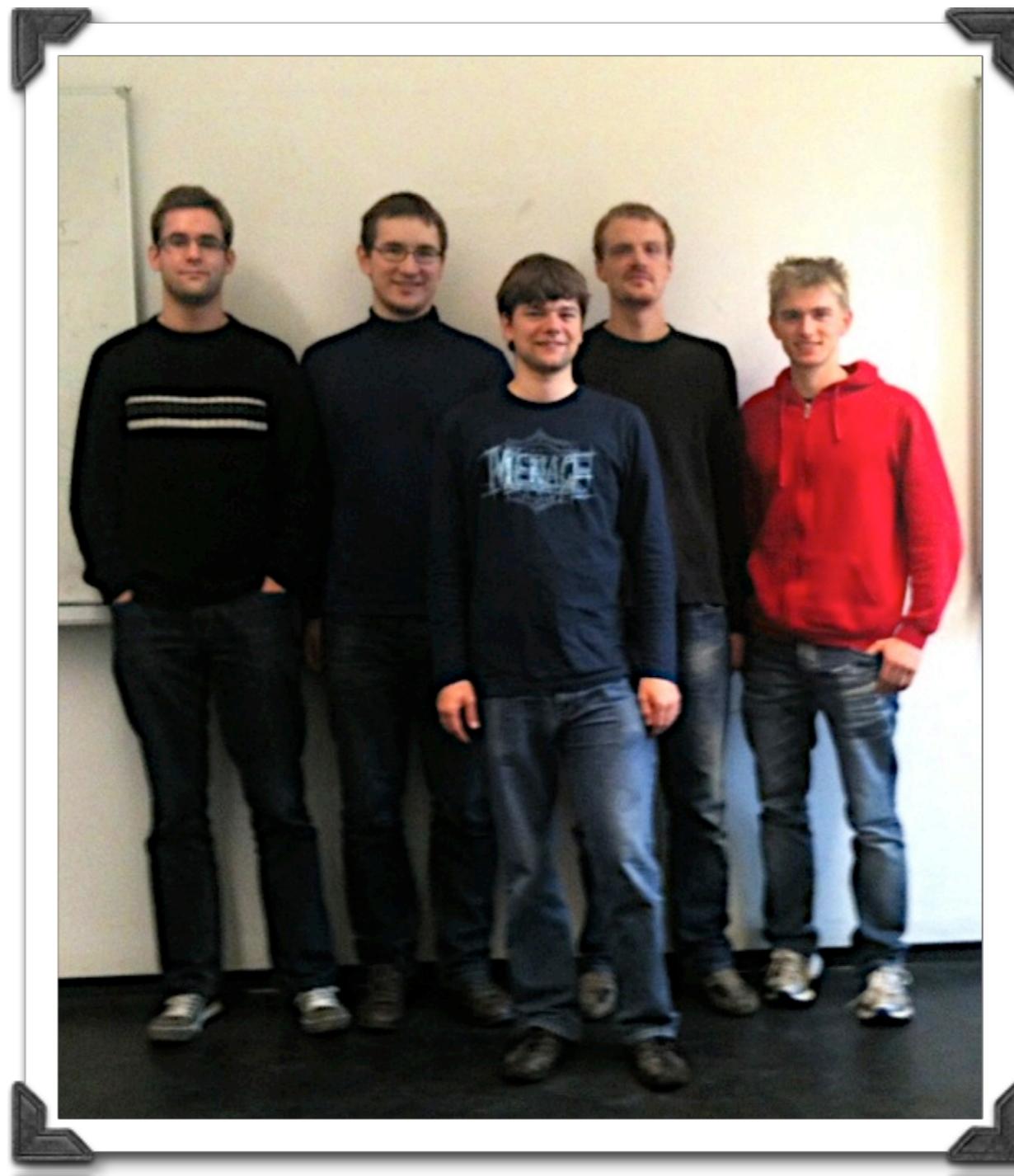
Office hour:
Thursdays, 17:00-18:00 hours (S2 | 02 A206)



Ralf Mitschke

Office hour:
Tuesdays, 15:00-16:00 hours (S2 | 02 A207)

Student Assistants



Organization



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Lecture

Organization | 10

- Thursdays 13:30-15:00 in S2 02 | C205 and C110
- The slides are in English
(Key terms will be translated into German.)
- The slides will generally be available after the lecture
(I will try hard to make a preliminary version available the day before the lecture.)
- The slides and exercises can be downloaded from:
<https://cage.st.informatik.tu-darmstadt.de/eise/public>
(SVN)
(RBG account required)

Exercises

Organization | 11

- Every week, we will have an exercise, starting **Thursday, Oct. 27th, ~15:00-15:45** in **S2 02 | C205 and C110**
- Team exercises (not-graded) are expected to be solved in teams of 3 to 4 students
- Graded exercises *need to be solved on your own*
- Register for the exercise using Webreg; **sign-up for the exercise until Oct. 26th**
<https://www.dekanat.informatik.tu-darmstadt.de/webreg/index.php>
WebReg is only used to sign-up for the exercise.
- Sign-up as a team; if you don't have a team, **we will** assign you to a team

Written Exam

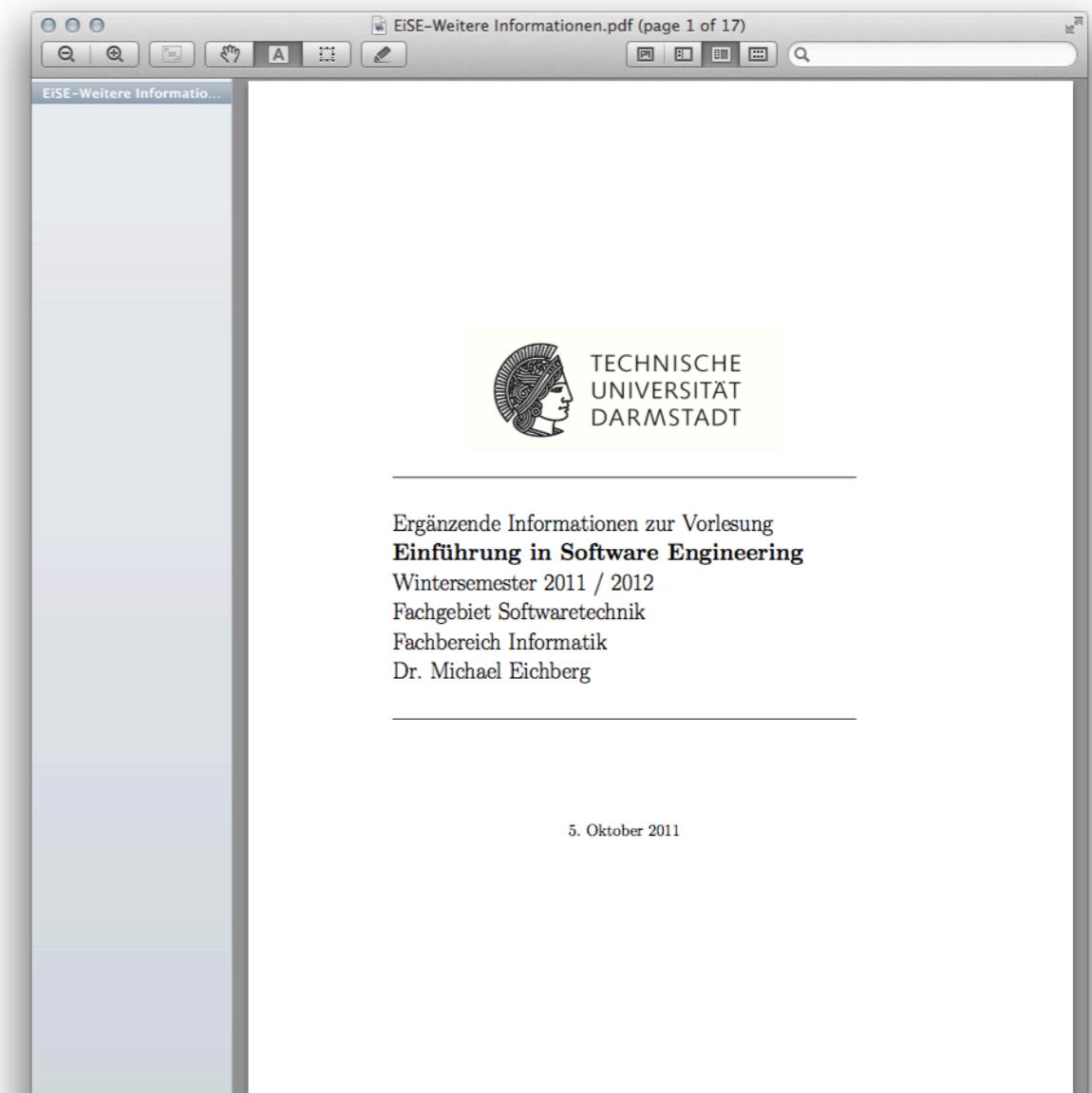
Organization | 12

- The exam will be on February, 22nd 2012 - 10:00 - 12:00
(The room will be announced in due time. The exam will take 90min.)
- You need to register for the exam in TUCaN
(There are no further prerequisites; “everyone” can attend the exam.)
- The exam will be an open book exam
- The exam will enable you to choose the tasks that you are particular good at
(I.e., it will not be possible to solve the entire exam in 90 minutes.)

“Additional Information”

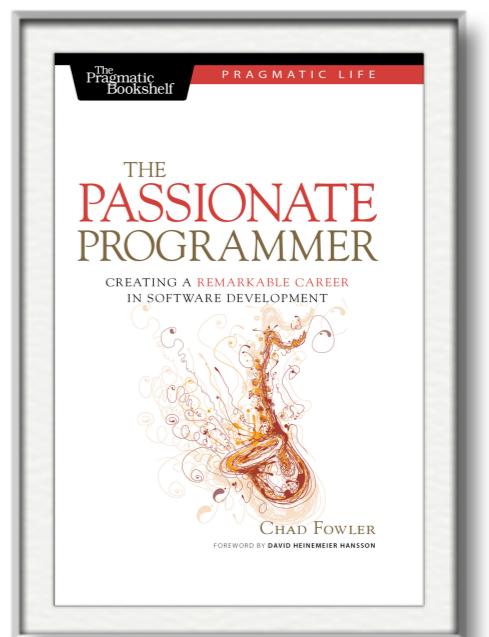
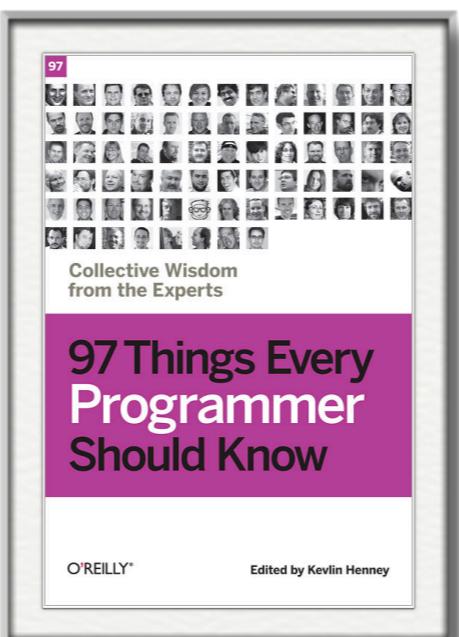
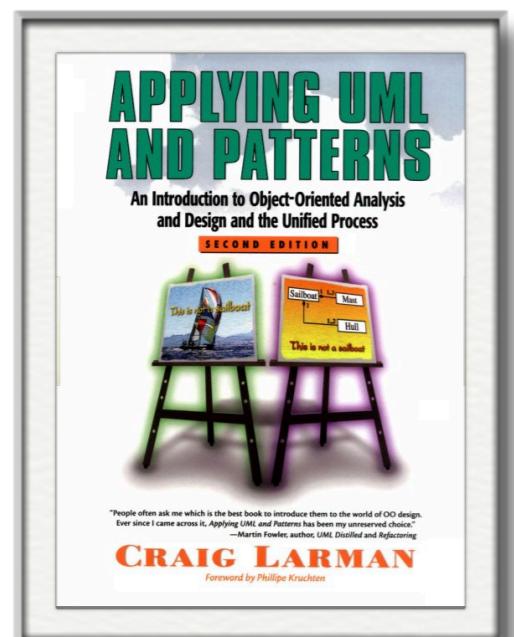
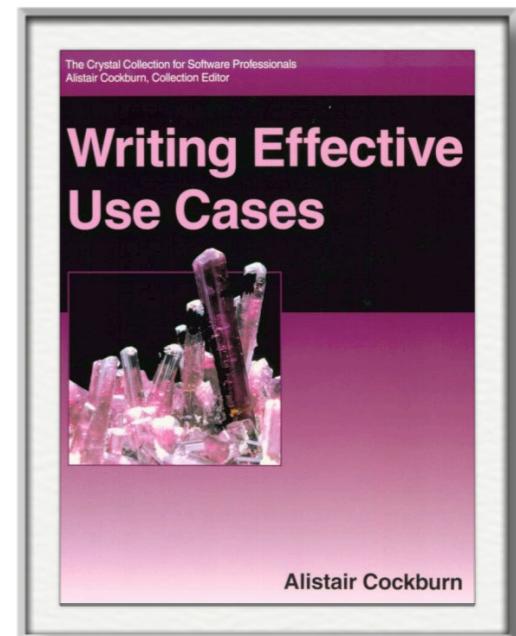
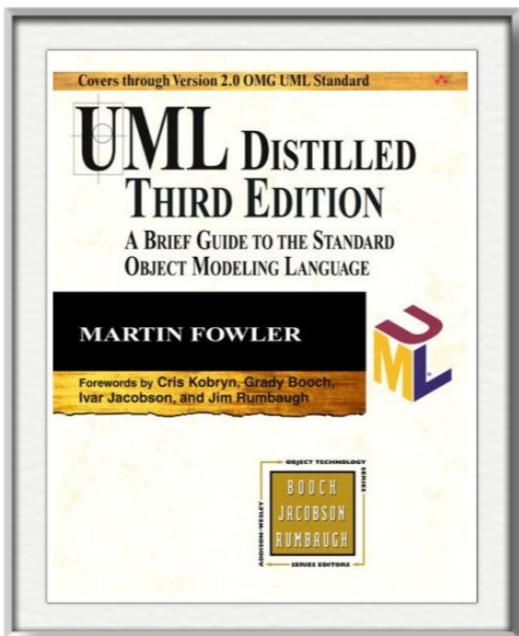
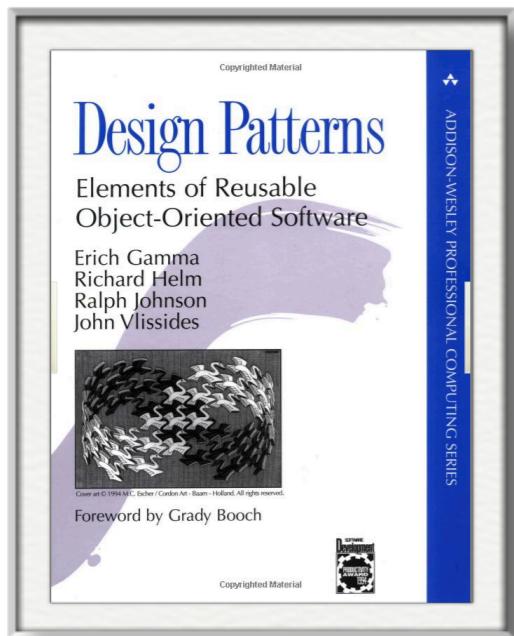
Organization | 13

- The document stored in the SVN named “**Weitere Informationen**” contains information relevant for the written exam (e.g., the bonus system) and the lecture
(All statements in the document are binding.)



Related Bibliography

Organization | 14



Essential Bibliography

Organization | 15

- **Design Patterns - Elements of Reusable Object-Oriented Software;** Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides; Addison-Wesley, 1995
- **Applying UML and Patterns - An Introduction to Object-oriented Analysis and Design;** Craig Larman; Prentice Hall

A Recommended / Very Useful Podcast

Organization | 16

The screenshot shows a web browser displaying the Software Engineering Radio website. The page features a blue header with the site's logo and navigation links for 'About', 'Praise', and 'Support Us'. Below the header, there are three main content sections, each representing a different episode.

- Episode 146: Interesting Patterns at EuroPLoP 2009**
2009-10-05 - This episode is a discussion with various authors of patterns reviewed at EuroPLoP 2009. Topics include Product Line Engineering, Distributed Development, Open Source and Embedded Systems
[Download MP3](#)
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- Spring in 2009 with Eberhard Wolff**
2009-09-21 - In this episode we discuss the current state of the spring framework. We talk about core features as Spring Batch.
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- Episode 144: The Maxine Research Virtual Machine with Doug Simon**
2009-09-07 - In this episode we talk with Doug Simon from Sun Microsystems Laboratories about the Maxine Research VM, a so-called meta-circular virtual machine. Maxine is a JVM that is written itself in Java, but aims at taking JVM development to the next level while using highly integrated Java IDEs as ...
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- agile architecture
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- embedded systems
- java languages
- mdsd
- middleware
- patterns
- processes
- soa
- [more tags](#)
- Interview - Technology -
- Technology / Guest - Round Table - News

External Talks / Events

Organization | 17

- **Capgemini**
Excursion / One-day Workshop
December, 1st, 2011
- **ACCSO** - Working Title:
“Beschleunigte Softwareentwicklung”
January, 19th, 2012

The Lecture



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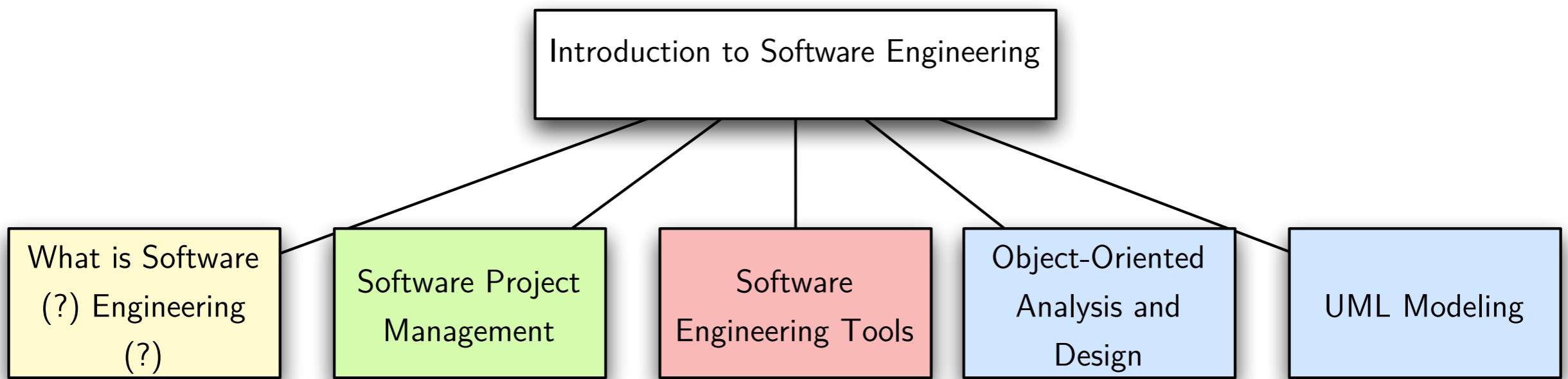
Basic programming skills are required.

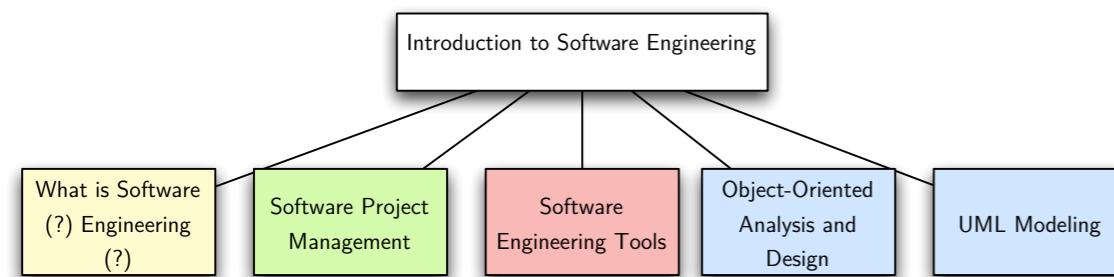
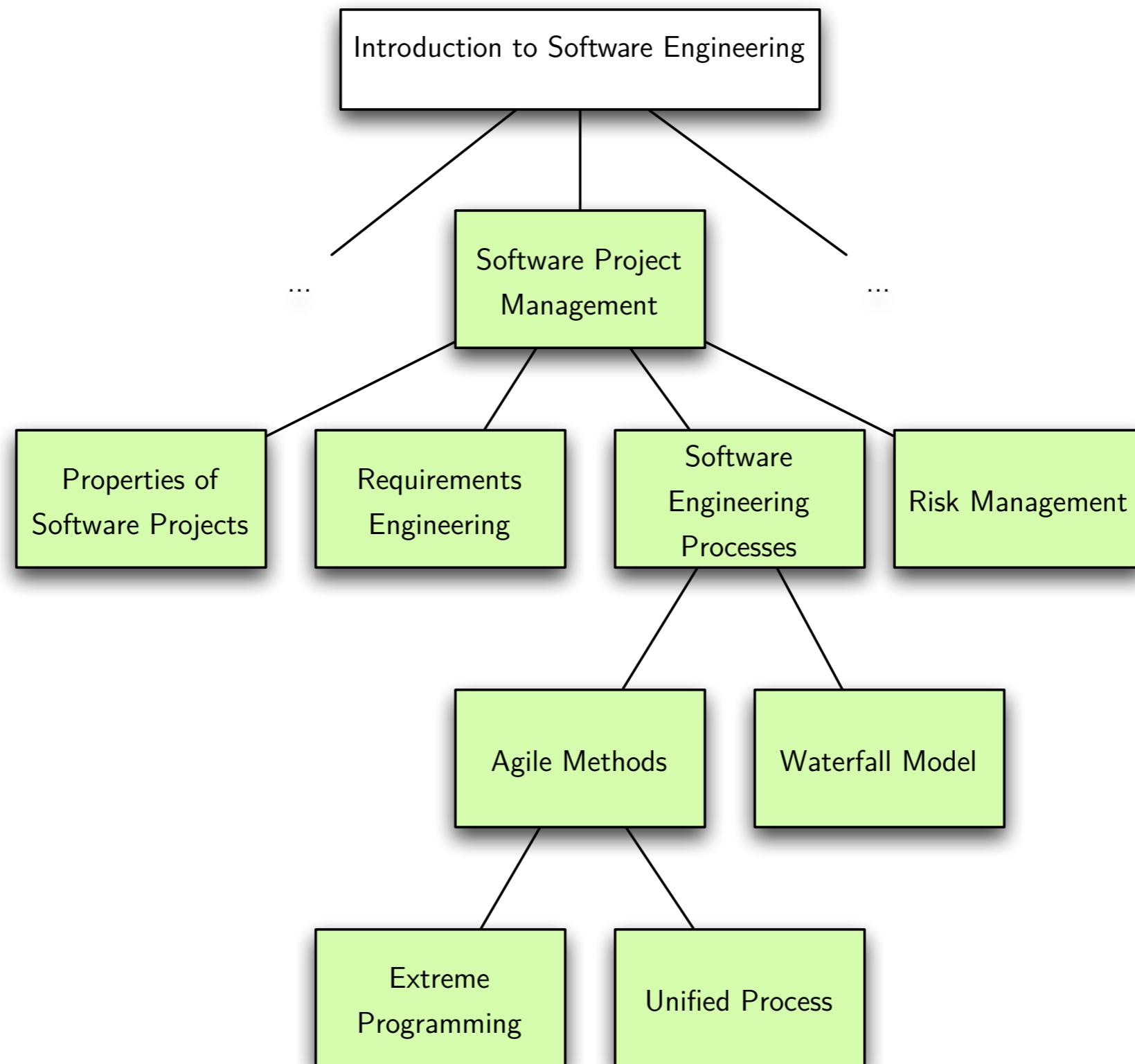
Teaser | 19

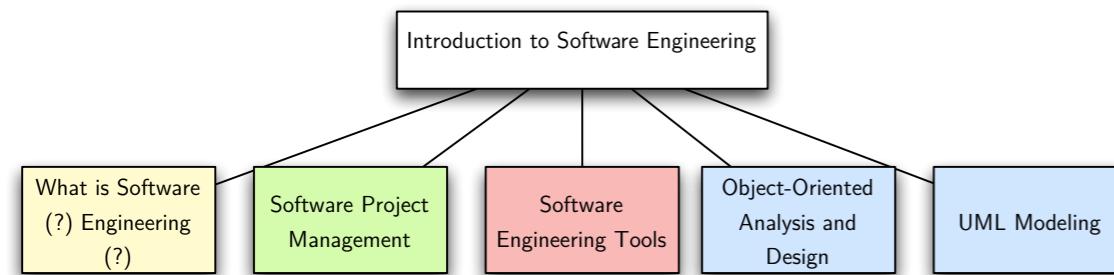
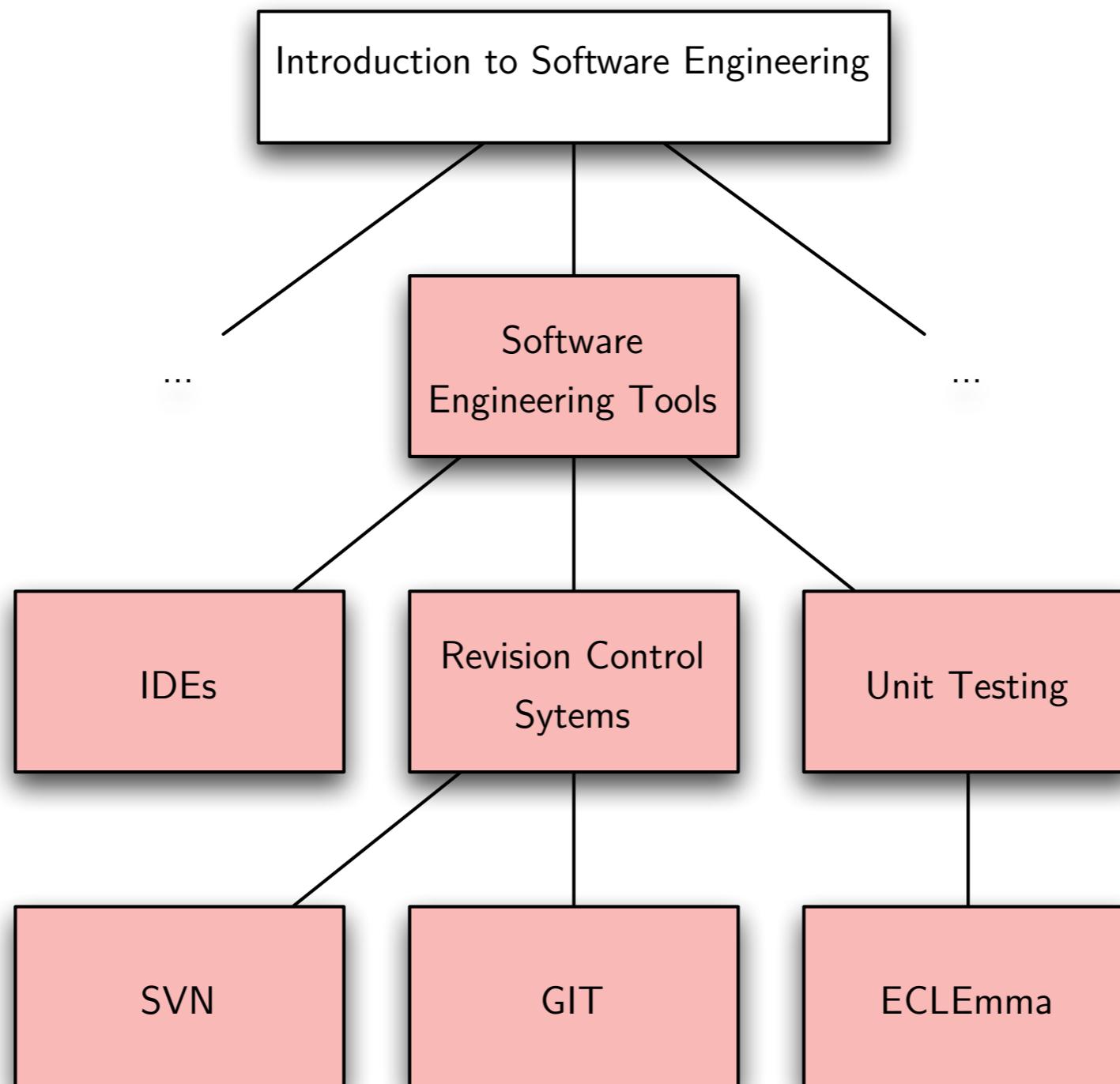
- Basic knowledge of **object-oriented programming** concepts is necessary
I.e., you should readily understand the following terms:
 - **class, interface**
 - **object**
 - **inheritance**
 - **polymorphism**
- Working knowledge of the **Java** programming language

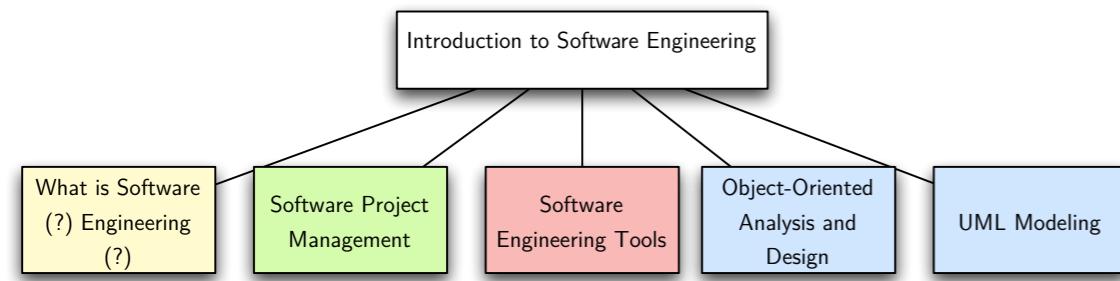
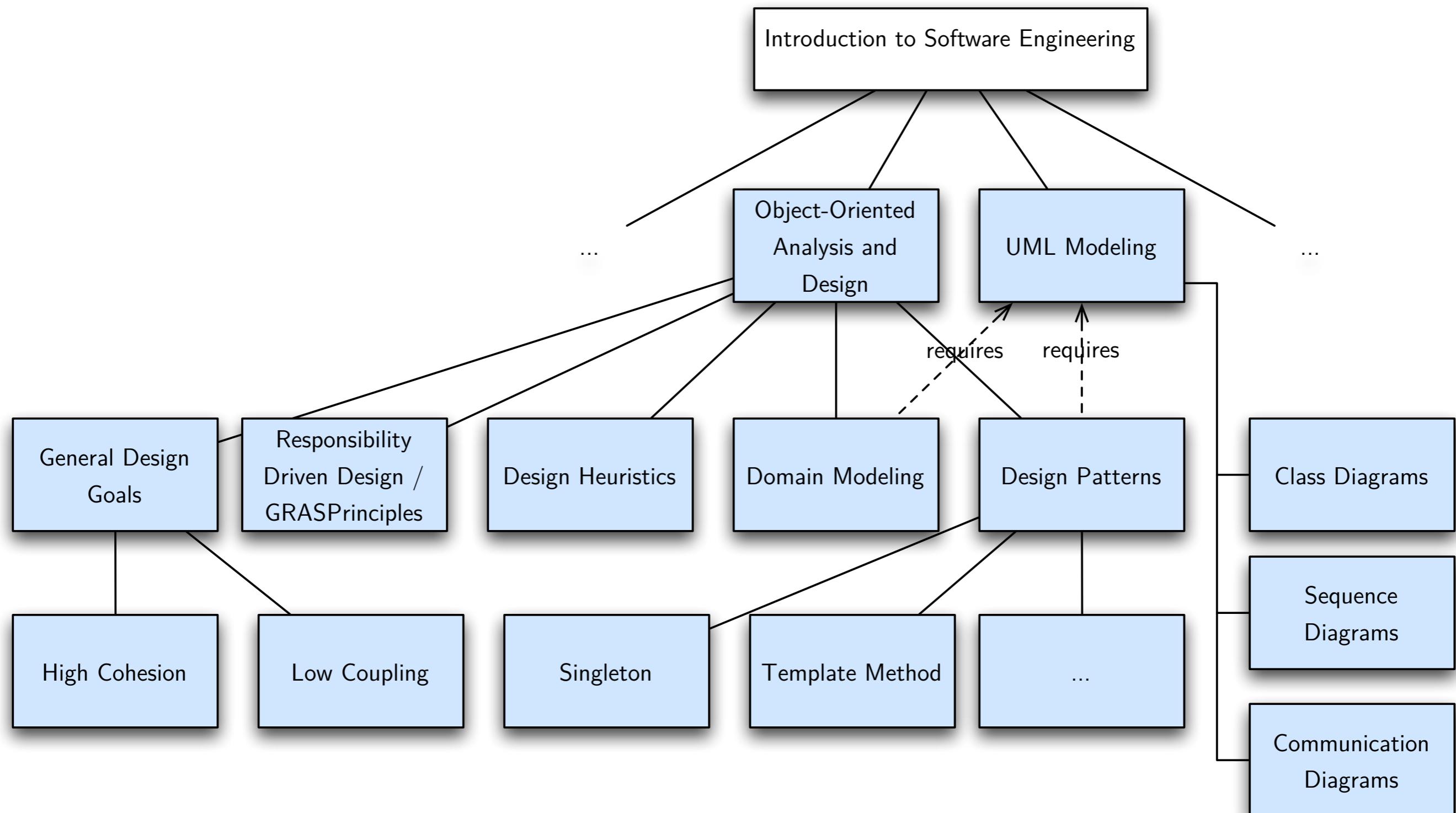
-
- To get a brief overview of “all” areas of software engineering
 - To understand agile software development processes
 - To be able to perform object-oriented analysis and design
 - To be able to read and create basic UML diagrams
 - To get first hands-on experience and to learn to use basic software development tools
-

The goal is to enable you to systematically carry out small(er) commercial or open-source software projects.









Content Distribution

