



UiO : **Department of informatics**  
University of Oslo

# Smart processes and agile methods in software engineering (IN5140)

Information on Master Course Autumn 2023

- Antonio Martini
- Yngve Lindsjörn

# Teachers

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**Antonio  
Martini**



**Yngve  
Lindsjørn**



**Dag  
Sjøberg**



**Viktoria  
Stray**



**Gunnar  
Rye  
Bergersen**



**Marthe  
Berntzen**

**Additional guest lecturers  
from industry!**

# Yngve Lindsjørn

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- **Current position: Associate Professor at University of Oslo**
  - Agile and Lean Methods,
  - Teamwork in agile teams
- **Education:**
  - MSc, University of Oslo, 1987
- **Work experience**
  - University of Oslo (IFI) since 2010
  - OsloMet since 2012
  - Comptel (now Nokia), 2008-2010
  - Own company, Kompetanseweb, 2000–2008
  - Tieto Enator, 1997-2000
  - Norsk Regnesentral 1987–1997
- Leading a large research project (TeamIT) from 2009 to 2014

# Antonio Martini

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- **Currently:**
  - Professor at UiO
  - Teaching the course from 2017
- **Previously**
  - Worked as a Software Developer
  - PhD in Software Engineering (Chalmers)
  - Postdoc (Chalmers)
  - Independent Consultant
  - Principal, Strategic Researcher at CA Technologies
- **Hobbies**
  - Board games, strategy computer games, pool, etc.
  - Football, volleyball, beach volley, medieval fencing
  - Piano, Drumset, etc.
  - Travel!
  - ...and no time for them! 😊

# Group Teachers

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- Karthik Shivashankar
  - [karths@ifi.uio.no](mailto:karths@ifi.uio.no)
  
- Gyda Elisa Sæter
  - [gydaes@ifi.uio.no](mailto:gydaes@ifi.uio.no)

# Organization

## Schedule

- Course is offered
  - For Master students (IN5140)
  - For PhD students (IN9140)
- Lectures
  - Live physical
  - Recorded and available on the website
- Group sessions
  - Tasks to support the lectures
  - Work on the project
  - Learning by doing

## Assessment

- Project (graded)
  - Design of a process improvement case
  - Case given by teacher or self-provided
  - Groups of 3-5 students
  - Write a report
- Written exam (graded)
  - 4 hours physical exam
- Final grade
  - Written exam 70%
  - Project 30%

# More information

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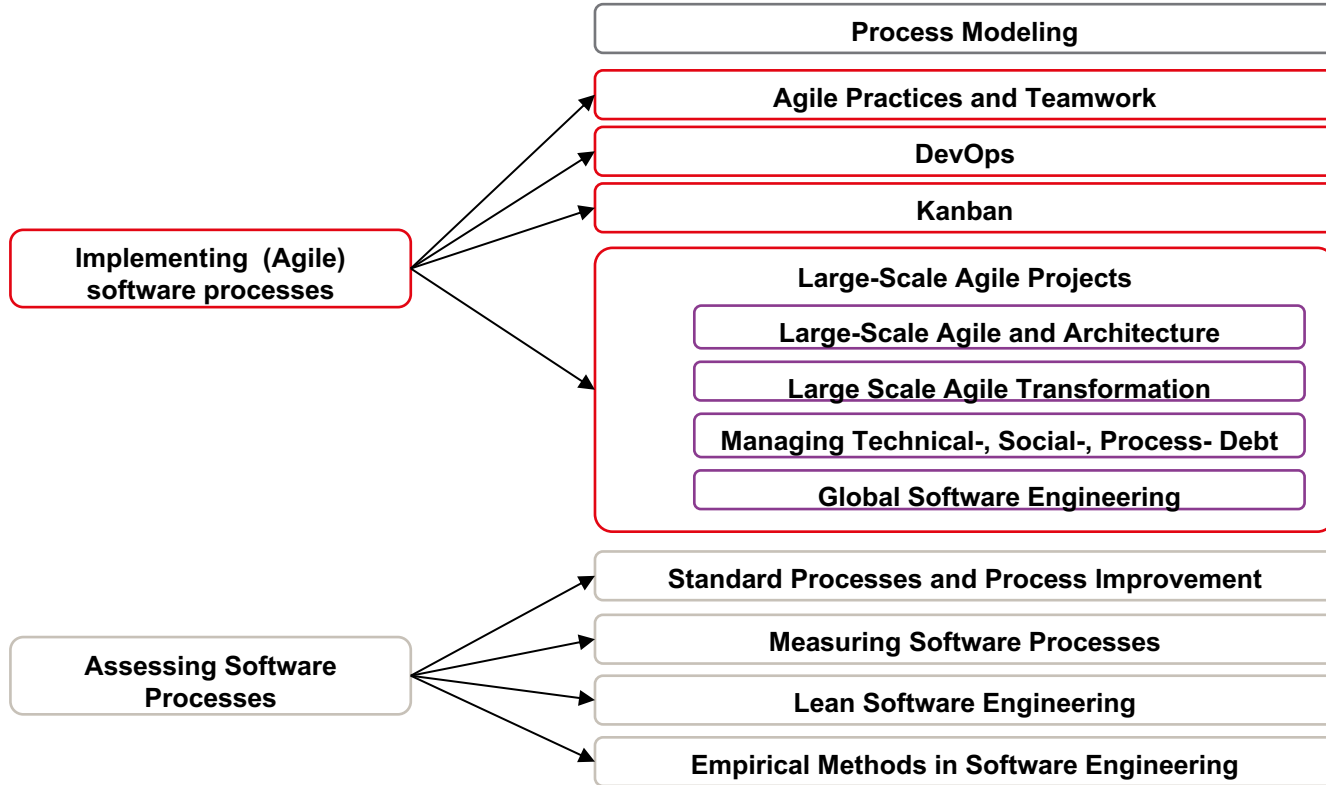
- Course page
  - <https://www.uio.no/studier/emner/matnat/ifi/IN5140/h23/>
- Questions (via mail)
  - [ynglin@ifi.uio.no](mailto:ynglin@ifi.uio.no)
  - [antonima@ifi.uio.no](mailto:antonima@ifi.uio.no)
- First lecture
  - 23. august, 14.15

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# Contents

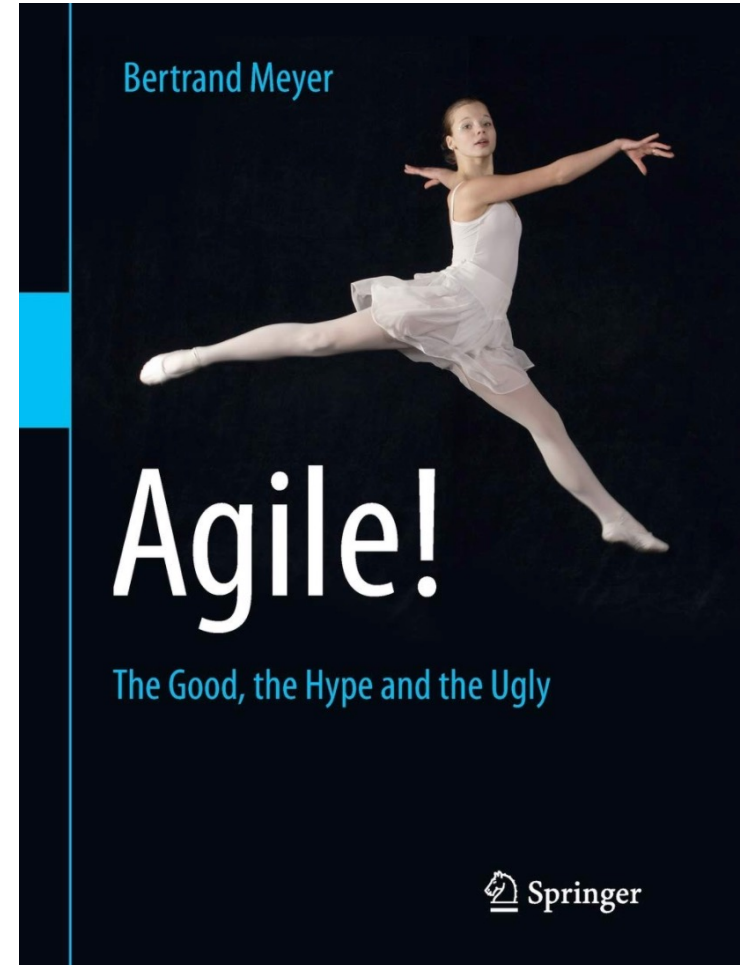
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# Recommended books

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- <https://www.springer.com/gp/book/9783319051543>
- [https://leanpub.com/integratingagilewithanoffshorestrategy/c/5140\\_2023](https://leanpub.com/integratingagilewithanoffshorestrategy/c/5140_2023)



# We use mentimeter!

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- [www.menti.com](http://www.menti.com)

# What to expect from the course

## What you get

- You learn how to reason about which process is best in which situation
- You understand when a process needs to be improved
- You learn the theoretical background about processes and their assessment
- You learn about Agile and its pros and cons
- You learn from real world research studies based on rigorous approaches and evidence
- You learn from practical experiences in different industrial contexts
- You practice reasoning about a given (real) case

## What you don't get

- You don't learn how to implement a specific process
- You don't apply a specific process during the project course

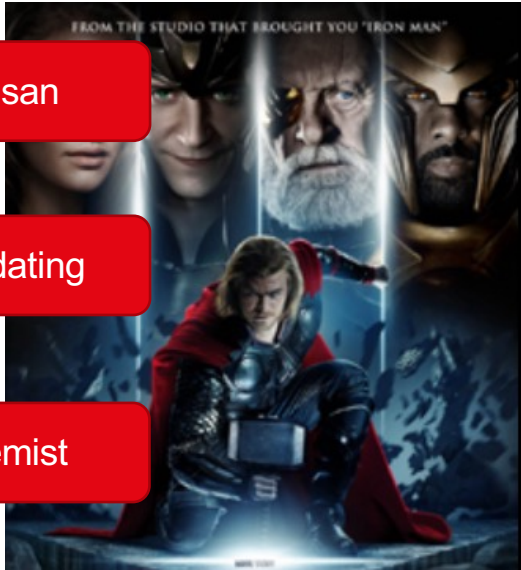
# What to expect from the book (see preface)

From

Partisan

Intimidating

Extremist



Do Agile like  
we say!



To

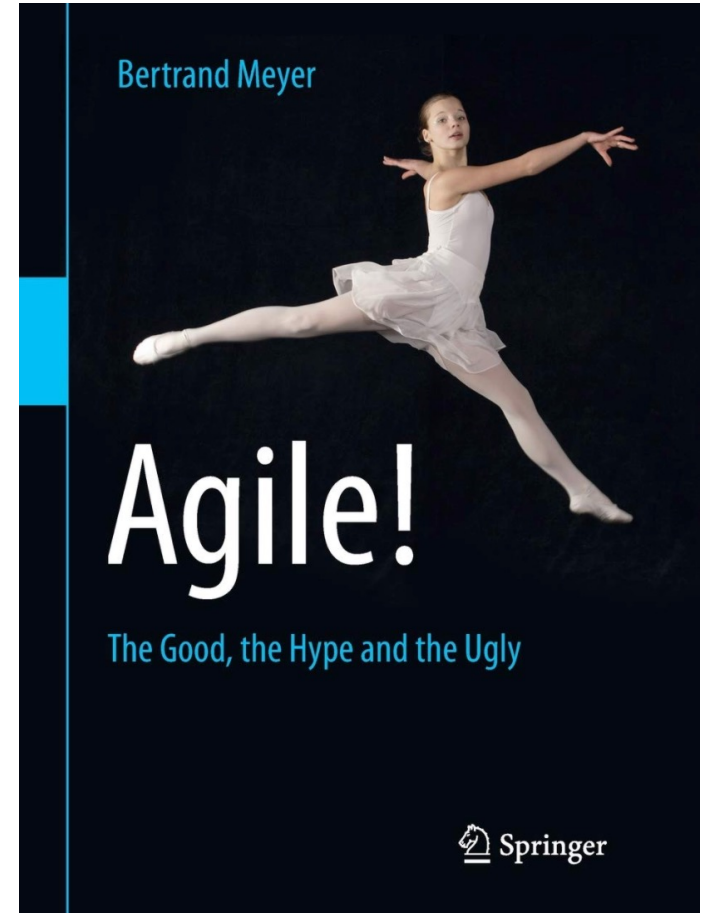


What works and  
what doesn't?

# Agile book

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<b>Preface</b>	<b>vii</b>
<b>Contents</b>	<b>xv</b>
<b>1 Overview</b>	<b>1</b>
<b>2 Deconstructing agile texts</b>	<b>17</b>
<b>3 The enemy: Big Upfront Anything</b>	<b>31</b>
<b>4 Agile principles</b>	<b>49</b>
<b>5 Agile roles</b>	<b>79</b>
<b>6 Agile practices: managerial</b>	<b>89</b>
<b>7 Agile practices: technical</b>	<b>103</b>
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<b>9 Agile methods</b>	<b>133</b>
<b>10 Dealing with agile teams</b>	<b>145</b>
<b>11 The Ugly, the Hype and the Good: an assessment of the agile approach</b>	<b>149</b>



# Book main points

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- **Concise description of Agile**
- **Assessment of Agile**
- The good (including the “brilliant”):
  - principles and practices — some new, some not — that agile authors rightly present as helpful to software quality and productivity.
- The hype:
  - widely touted ideas that will make little difference, good or bad, to the resulting software.
- The ugly:
  - agile-recommended techniques that are just plain wrong, contradicting proven rules of good software engineering, jeopardizing the success of projects, and harming the quality of the resulting software.

# Book, slides or group work?

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- Both!
- Read the books, they are easy to read, interesting and explain further the lectures
  - Using arguments from the book helps getting better grades at the exam
- Participate to the lecture and/or listen to recordings
  - The exam will cover any topic discussed in the lectures, including the guest lectures
- Participate in the group work, it will help you both for the written exam and for the project
  - We will also have some learning by doing activities