

# PHILOSOPHY OF COMPUTER SCIENCE

CD5650



## COURSE PLANNING

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Department of Computer Science and Engineering  
Mälardalen University, 23 January 2004

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## COURSE HOME PAGE

[http://www.idt.mdh.se/~gdc/04\\_PI/index.html](http://www.idt.mdh.se/~gdc/04_PI/index.html)

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## ADMINISTRATION

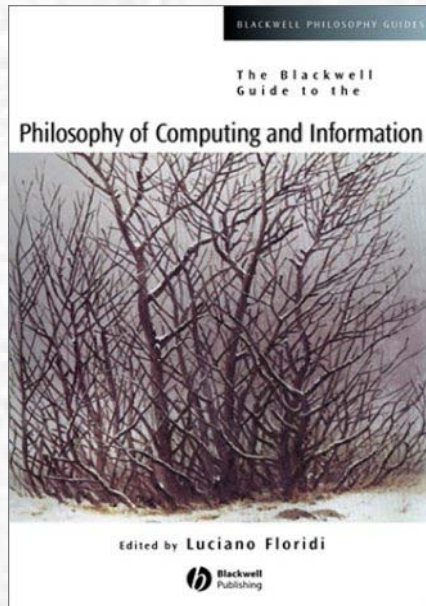
- D-level students contact Malin at IDt to register for the course, in order to get it into the LADOK.
- PhD students are going to get certificate of the course.

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## CLASS ATTENDANCE

- Remember to sign the class list each time!
- 80% class attendance is required
- If you miss the class you get extra assignment – read a chapter in a book, read web-material and write extra detailed class notes.

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## TEXTBOOK

The Blackwell Guide to  
The Philosophy of  
Computing and  
Information

(Blackwell Philosophy  
Guides), Luciano Floridi  
Ed.

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## EXAMINATION

The seminar is research-oriented and will prepare the participants for collaborative research in this interdisciplinary area.

- 3 points: class attendance + class notes (at minimum 15 pages, at minimum 5 pages per course block)
- 2 points: research paper, presented at mini conference

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## RESEARCH PAPER

- You choose a topic approved by teacher and study its philosophical aspects.
- Keep in mind that this is a research paper so *careful background research and analysis* are essential to writing a sound paper.
- The essay should be about 6-10 pages (6000-8000 words) written in the given format (see course home page).

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## DEADLINES

Research Paper:

- Topic (Title): **30 Jan.**
- Abstract: **7 Feb.**
- First draft: **20 Feb.**
- My comments to your first draft: **5 Mar.**
- Final version: **15 Apr.**

Class Notes:

- Complete file with all class notes sent by mail: **25 May.**

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## COURSE POLICIES

- Keeping Up
- Lateness
- Taking Lecture and Class Notes
- Doing Your Own Work
- Late Assignments
- In-Class Activities
- Grading
- Examination Forms
- Environmental Policy
- Equity Policy
- Statement on Students with Disabilities

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## LECTURES – PART I

22 January

- 09-12 Introduction to PI - Luciano Floridi
- 13-14 Discussion on Introduction to PI
- 14-15 Physics as an “Ideal Science” -  
Philosophical Foundations and Consequences  
Lars-Göran Johansson
- 15-17 The Function of Natural Laws in Physics  
Lars-Göran Johansson

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## LECTURES – PART I

23 January

- 09-12 Philosophical Foundations of Computability  
Gordana Dodig-Crnkovic
- 13-14 Discussion on Phil. Found. of Computability
- 14-15 Planning for the Course and Mini-Conference  
Closing Remarks (GDC)

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## LECTURES – PART II

04 March

- 09-12 Methodological Foundations of CS  
Erik Sandewall
- 13-14 Discussion on Meth. Found. of CS
- 14-15 Critical Analysis of CS Methodology  
Björn Lisper, Jan Gustafsson
- 15-16 Discussion on Critical Analysis of CS  
Methodology, Björn Lisper, Jan Gustafsson

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## LECTURES – PART II

05 March

09-12 Modelling and Simulation

Kimmo Eriksson, Lars-Göran Johansson

13-14 BEE-HIVE on Modelling and Simulation

14-15 DISCUSSION OF PAPER DRAFTS (GDC)

15-16 Closing Remarks

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## LECTURES – PART III

13 May

09-12 Ethics and Professional Issues in Computing

Gordana Dodig-Crnkovic

13-14 BEE-HIVE on Ethics and Professional Issues  
in Computing

14-15 Ethics and AI (Peter Funk)

15-16 BEE-HIVE on Ethics and AI

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## LECTURES – PART III

14 May

09-16 MINI-CONFERENCE

16-17 Closing Remarks

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## ACKNOWLEDGEMENTS

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PI NETWORK

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