

INF5040/9040

Open Distributed Systems

Course overview

Lecturers: **Frank Eliassen (frank)**
 Roman Vitenberg (romanvi)

Teaching assistant:
 Sabita Maharjan Khadka
 (sabita)

Lectures and exercises

➤ **Exercises**

- Monday 10:15 -12:00, seminar room 3A, Informatikkbygningen
- First time 31. August

➤ **Lectures**

- Tuesday 14:15-16:00, seminar room 3B, Informatikkbygningen
- First time right now...

Learning goals

- Provide a basic understanding of
 - fundamental principles, concepts and state-of-the-art
 - key technologies for realising distributed interactive systems of the future
- Gain practical experience with state-of-the-art platforms to realise distributed applications
- Provide knowledge about today's challenges to open distributed processing technology, including
 - multimedia
 - mobility

Course elements

- 13 lectures
 - overview
- about 10 exercises
 - Introduction to Mandatory programming exercises
 - Programming exercises (small projects)
 - A few theoretical exercises
- Mandatory programming exercises (2)

Syllabus

- Taken from
 - G. Coulouris, J. Dollimore, T. Kindberg, "Distributed Systems – Concepts and Design", fourth edition, Addison-Wesley.
 - A. Tanenbaum, M. van Steen, "Distributed Systems – Principles and Paradigms", 2nd edition, Prentice-Hall
- A detailed plan will be provided later (also see lecture plan)

Topics

- Introductory lecture (overview)
- System models
- Distributed objects and object-based middleware
- Object interaction using RMI
- Software components and distributed systems
- Communication paradigms
- Time and coordination
- Distributed transactions
- Replication
- Peer-to-peer
- Mobile and ubiquitous computing
- Distributed multimedia systems
- Web-based systems

Announcement seminar talk

- Title: "Exploring Epidemics in Distributed Systems"
- Speaker: Prof. Maarten Van Steen, VU University Amsterdam (author of INF5040 text book)
- Place: Store Auditorium, Informatikkbygningen
- Time: Thursday 27th of August 14:15-15:00

Quality assurance at the Department of informatics

- As a student you have the right and duty to contribute to the quality assurance of your study program. This is done primarily by participating in mid term evaluation. The course lecturer will initiate the mid term evaluation for each course
- The mid term evaluation provides you with the opportunity to give feed back and suggestions regarding the teaching during the semester, to ensure that improvements can be done during the course
- You may find more information on the main page of Institutt for informatikk under "Annet" – "Kvalitetssikring", or by following the link: <http://www.ifi.uio.no/studinf/kvalitetssikring/studenter>