Overview

- The course is given as a 50% pace 7.5 credit course
- Examination based on three parts
  - 1 assignment
  - 1 group project
  - 3 + 1 take-home written exams
- Majority of grade based on theoretical work
Course Information

Overview

Teachers

▶ Ewenetu Bayuh Lakew
▶ Ahmed Ali-Eldin
▶ P-O Östberg

Modules

▶ Three modules
  - foundations
  - coordination
  - consistency

Foundations

▶ Introduction
▶ Foundations
▶ Performance analysis

Coordination

▶ Time and global states
▶ Mutual exclusions and elections
▶ Group communication
▶ Distributed agreements

Consistency

▶ Replication
▶ Consistency
▶ Transactions
▶ Concurrency control

Tutorials

▶ One tutorial per assignment
  - systems performance
  - group communication
▶ Introduction to the assignment development environments
▶ A chance to get started with a teacher in the room
Course Information – Literature

- Handouts
- Research papers illustrating core concepts
  - listed on the course web page
  - tentative list (more could be added)
- Reference literature discussing specific topics
  - extensive reading (not mandatory)

Course Information – Assignment

1. To be solved in groups of 2 (-3) students
2. Systems performance
   - concurrency
   - system decomposition
   - basic statistics, analysis, visualization

Course Information – Course Project

- To be solved in groups of 2 (-3) students
- Large programming project
  - roughly the size of (at least) two assignments
- Group communication
  - middleware construction
  - message ordering
  - coordination

Course Information – Grades, Grading, and Bonus Credits

- 1 Assignment
  - group (2 [-3] students)
  - minimum score 10, maximum 15
- 1 Project (mandatory)
  - group (2 [-3] students)
  - minimum score 20, maximum 30
- 4 Written (take-home) examinations
  - individual
  - 3 module-oriented, 1 mixed content
  - minimum score 10, maximum 15
- Grade based on accumulated score
  - U: 0 - 49
  - 3: 50 - 64
  - 4: 65 - 79
  - 5: 80 +
- Bonus credits do not carry over to make-up exam

Course Information – Assignments and Project

- Register (as students taking the course)
- Follow instructions in the assignment specifications
- Hard deadlines
  - one second chance, within five (working) days
  - bonus credits do not carry over to resubmissions
  - make-up exam only available once
- Assignment and project reports
  - design decisions, issues, discussion
  - evaluate (task, solution, results)
  - demonstrate knowledge and understanding