





Homework assignments: (HWAs)

- Two assignments (handed out on Apr 16 and May 2)
- Problem solving + paper reading (16-day deadlines)
- Written report (computer generated, electronically submitted)
- Presentation (summarize, and argue for, proposed solutions)

Examination:

- Passed homework assignments (report + presentation)
- Passed final written exam (May 23 at 14:00, in the V building)
- Grading policy: homework (60%) + final exam (40%)
- Grades: Failed, 3, 4, 5
- − Successful examination \Rightarrow 7.5 credit points



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Resources
Consultation sessions: – Fridays at 15:15 – 17:00 in room EL43
Student portal: – Administration of HWAs (form groups, submit documents, etc) – Results from the grading of HWAs and written exam
Information board: Follow @pdrtschalmers http://www.cse.chalmers.se/edu/course/EDA421
Lecture notes will be available on the information board no later than 48 hours before the corresponding lecture



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Course contents
 What this course is all about: real-time systems modeling real-time application constraints real-time performance measures real-time task assignment and scheduling algorithms real-time inter-processor communication techniques complexity theory and NP-completeness distributed clock synchronization
 – radictolerance techniques for real-time systems – estimation of program run times























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Specification
Examples of application constraints:
 Timing constraints A task must complete its execution within given time frames (example: task periodicity or deadline)
 Exclusion constraints A task must execute a code region without being interrupted (example: a task needs exclusive access to a shared resource)
Precedence constraints
 A task must complete its execution before another task can start (example: a data exchange must take place between the tasks)













