Research Planning, 3p
www.mrtc.mdh.se/han/FoPlan/

Hans Hansson
Mälardalen University

MRT C
MÄLARDALEN REAL-TIME RESEARCH CENTRE

RPC WS 2

• Timing:
  – Today: 10.15 – 17.00 (possibly slightly later if we need the time)
  – Tomorrow: 9 – 12.00
• Presentations and discussions of Assignment 2:
  – Larisa (10.30 – 11.15)
  – Susanna (11.15 – 12.00)
  – Najeem (13.15 – 14.00)
  – Phoebe (15.30 – 16.15)
  – Christer (16.15 – 17.00)
  – Ewa (Wed 9.15 – 10.30)
• Distinguished guest:
  – Kimmo Eriksson, Prof. in Mathematics at MdH (14-15 today)
• WS 3 – time, place and content
• Assignment 3 (presentation/discussion)
A PhD/Lic thesis

- Generic structure (not always in this order and structuring into sections/chapters varies)
  - Motivation (why?)
  - Problem definition (what?)
  - Contributions (what’s new?)
  - Related work (what’s already done?)
  - Approach/Methodology (how?)
  - Organization of thesis (how presented?)
  - YOUR WORK
  - Conclusions (this is what I think I’ve done)
  - Future work (this is what I didn’t have time to do)
  - References

Overview of course

1. Assignment 1
   - You know all about it; presentations and discussions expected.
2. Assignment 2
   - Research area overview (state of art and practice).
   - Report + review of reports
3. Assignment 3
   - Research overview and plan
   - Report + review of reports
4. Guest lectures
   - My experiences (a former PhD give his/her story)
   - My research (a senior researcher presents a research area)
   - Specific topics (if needed)
Assignment 2

• Updated version of assignment 1 (considering today’s discussions etc.)
• Research overview
  – Current research issues and hot topics
  – State of practice (key industrial players, type of “technology” available, etc.)
  – Central literature, including seminal papers
  – Key conferences and leading research groups
  – Relation to and relevance for own research
  – References

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Planning the course

• Workshop 1 (Done!)
• Workshop 2 (lunch-lunch)
  – Dates: October 4-5 (MdH)
• Workshop 3 (lunch-lunch)
  – Dates: November 2-3 (MdH/Västerås)
  (Assignment deadline Oct 23)
    • Is 45min/person sufficient?
    • Andreas “Ebbe” Ermedahl will present “life before and after PhD”
    • Any other suggestions?
    • Starting time? Finishing time?

Assignment 3

• an updated version of assignment 2 (approx 10 pages)
• a plan of the own research activities, including
  – Hypothesis
  – Concrete research questions
  – Concrete expected results
  – Activities, including planned publications and co-
    operations, and conference trips etc.
  – Time plan
  – Milestones
The final report

From Gunnar Mathiason’s report last year:

- 5 Research issues 10
  - 5.1 Problem ................................................. 10
  - 5.2 Definitions ................................. 10
  - 5.3 Hypothesis ........................................... 11
  - 5.4 Concrete research questions ................. 11
  - 5.5 Expected results .............................. 12
- 6 Activities and milestones 13
  - 6.1 Prior publications .................................. 13
  - 6.2 Planned publications .............................. 13
  - 6.3 Tentative publications .............................. 14
  - 6.4 Cooperation ......................................... 16
  - 6.5 Conference trips .................................... 16
  - 6.6 Time plan and milestones ......................... 17

**Comment: Separate activities and publications**
- Activities aims at producing research result
- Publications are milestones (could also be other milestones)
- Gunnar lists too many publication/activities
- You may want to include longer int’l visit

Procedure

- Deadline final reports: Sunday Oct 23
- Distribution of reports: Monday Oct 24
- Prepare oral feedback and brief written statement
  - to be given to author and Hans
  - Include
    - Overall statements
    - Required improvements
    - Suggested improvements (including detailed comments)
    - Other comments
- WS3: Wed Nov 2 – Thu Nov 3
- Nov 7: Examination result from Hans
  - Pass as is (no improvements needed)
  - Pass after minor improvements
    - Hans will check
  - Pass after major improvement
    - essential element missing or insufficient
    - Hans and reviewers will check
- Dec 1: Deadline for improved report
Questions/Discussion

• About assignment(s)
• About course
• Special requests
  – Lectures by guests etc.