IT-Security

Karl C. Posch (Karl.Posch@iaik.tugraz.at)

http://www.iaik.tugraz.at/content/teaching/bachelor_courses/einfuehrung_in_das_wissenschaftliche_arbeiten

Topic...

• …is just here in order to direct you to an area of interest.  
• …find out about the topic’s connection to the people in this house, i.e. at IAIK.
• Choose your own title for your essay
Work load

- 3 ECTS points = 75 work hours on average

- We have approx. 70 hours remaining:
  - Roughly 15 hours in the seminar room (“contact hours”)
  - 55 hours of work

- Start a journal („Tagebuch“) today.

Plan ahead:
I assume that you distribute these 55 hours over the remaining 6 weeks of the semester. This results in roughly 9 hours average work per week.

Meetings

- We 31.10. 15:45-17:15 preparation
- We 7.11. 16:30-18:00 working in science
- We 14.11. 16:30-18:00 short presentation
- We 21.11. 16:30-18:00 the craft of scientific writing
- We 28.11. 16:30-18:00 der glücksfall im leben
- We 5.12. 16:30-18:00 what remains to be done

- Mo 10.12. 8:15-11:00 final presentation
- We 12.12. 16:30-19:30 final presentation

- individually: review of results
Timeline for presentations

- Today
- Short presentations
- Final presentations

November: 31, 7, 14, 21, 28
December: 5, 10/12

Timeline

- Plagiarism statement + structure of papers
- First summary of research
- Draft paper
- Final version of paper

November: 31, 6, 7, 11, 14, 21, 27, 28
December: 5, 9, 10/12

Working in science
Writing
Reviewing
Presenting

Karl C. Posch
Graz University of Technology
Einführung in das wissenschaftliche Arbeiten
Meetings. Deliverables. **Deadlines.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activity Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tue, Nov 6</td>
<td>14:00</td>
<td>plagiarism statement &amp; summary of findings about the structure of scientific papers</td>
</tr>
<tr>
<td>We, Nov 7</td>
<td></td>
<td>seminar: working in science</td>
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<tr>
<td>Su, Nov 11</td>
<td>23:59</td>
<td>first summary of research</td>
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<tr>
<td>We, Nov 14</td>
<td></td>
<td>short presentations; hand in slides by 10 am.</td>
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<tr>
<td>We, Nov 21</td>
<td></td>
<td>seminar: writing</td>
</tr>
<tr>
<td><strong>Tue, Nov 27</strong></td>
<td>14:00</td>
<td>deadline for draft version</td>
</tr>
<tr>
<td>We, Nov 28</td>
<td></td>
<td>review short presentations</td>
</tr>
<tr>
<td>We, Dec 5</td>
<td></td>
<td>seminar: presenting</td>
</tr>
<tr>
<td><strong>Su, Dec 9</strong></td>
<td>23:59</td>
<td>deadline for final version</td>
</tr>
<tr>
<td>Mo, Dec 10</td>
<td>08:15</td>
<td>presentations &amp; discussion</td>
</tr>
<tr>
<td>We, Dec 12</td>
<td>16:30</td>
<td>presentations &amp; discussion</td>
</tr>
<tr>
<td><strong>Upone appointment:</strong></td>
<td></td>
<td>individual review with trainer</td>
</tr>
</tbody>
</table>

**Grace period**

- You have 24 hours of grace period.
- Choose wisely.

- After consumption of grace period you are losing 10 grading points per 24 hours.
Plagiarism

- What is plagiarism?
- How do I avoid plagiarisms?
- Why should I avoid plagiarisms?

- Check out
  http://www.plagiarism.org
  http://owl.english.purdue.edu/owl/resource/589/01/

- Read and learn from the sources above. Hand in an email to the teacher that you have done so. State that you do not intend to plagiarize within this class. Deadline is Nov 6.
Week 1

- Analysis of the structure of scientific papers
  - Take 3 essays: distill the common structural elements
  - Analysis: which elements, how long, what do they have in common, how do they diverge?

- Analysis of the structure of “Introductions”
  - Take 3 essays: distill the common structural elements
  - Analysis: which elements, how long, what do they have in common, how do they diverge?

- Analysis of sentences in “Introductions”
  - Types of sentences, conjunctural words, conjunctural phrases, length of sentences, “sound” of sentences, word repetitions, abbreviations, etc.

Sources for papers

- Partner A:
  ACM Transactions on Information and System Security (TISSEC), Volume 15
  [Link](http://ftubhan.tugraz.at/han/3456/portal.acm.org/browse_dl.cfm?linked=1&part=transaction&id=J789&coll=portal&dl=ACM)

- Partner B:
  IEEE Transactions on Dependable and Secure Computing, Volume 6
Start searching at the university library

- [http://www.ub.tugraz.at/](http://www.ub.tugraz.at/)
- Search for E-journals

- [http://ieeexplore.ieee.org/xpl/periodicals.jsp](http://ieeexplore.ieee.org/xpl/periodicals.jsp)
- „Transactions on Dependable and Secure Computing“


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Working in science

- One knows parts of “the world”
- One tries to understand unknown parts of “the world”
  - Sometimes these parts are not known by yourself, sometimes they are not known by mankind
  - You need to read critically, write critically, you do experiments, you discuss, you do an excursion, you think critically, you reflect, …
- One follows an established method (– or one documents her thoughts as if she would have followed an established method)
- One documents for oneself what you intend to do, what you have done, what you have achieved, what has not worked, which ideas you have, which plans you have; this you do in order to keep track.
- One documents for the group, for the boss, for the public; always in an appropriate form, either orally or written or most often both.
- One divides the „non-ending work“ into manageable portions:
  - projects, work packages, tasks, deliverables, time sheets, …
- One plans ahead, as good as possible. Sometimes you have to re-plan.
- One takes more or less risk. Best is a mix of both.
Grades

- 0-50% Nicht genügend
- 51-62% Genügend
- 63-75% Befriedigend
- 76-87% Gut
- 88-100% Sehr gut

- Once more: For getting a passing grade you need to hand in all components specified above. In time!

Latex, MS Word

- [http://www.iaik.tugraz.at/content/teaching/bachelor_courses/einfuehrung_in_das_wissenschaftliche_arbeiten/gruppe_posch/downloads/index.php](http://www.iaik.tugraz.at/content/teaching/bachelor_courses/einfuehrung_in_das_wissenschaftliche_arbeiten/gruppe_posch/downloads/index.php)