

Lecture on Diploma Thesis

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- 10:00-11:00
 - Time management
 - Literature review
 - File organization
 - Exercise
- 11:15-12:15
 - The Structure and
 - The Layout of the Diploma Thesis
 - Exercise
- 12:45-14:00
 - How to write an Abstract
 - 2 Exercises
- 14:00 -14:30 – Questions and Discussion

■ Part One

- General Information
- Diploma Thesis Setup
- Exercise

■ Part Two

- Structure of the Diploma Thesis
- **Layout**

■ Part Three

- Abstract



Part One

■ General Information

- Prerequisite to get the Diploma from University of Applied Science
- Schedule

■ Diploma Thesis Setup

- First Step
- Searching for materials
- File Organisation

■ Exercise

- Prerequisite to get the Diploma from University of Applied Science
 - All the remaining exams, tests, labs have to be passed
 - The diploma thesis has to be accepted by your supervisor
 - The diploma thesis has to be delivered in two copies (**Deadline: 25.06.2012!!!**)
 - You have to pass the final oral examination (Colloquium) (26.06. – 11.07.2012)

20.02.2012 Start of the Diploma thesis (Set up)

23.03.2012 Registration official start date

25.06.2012

2 hardbound copies of the Diploma thesis has to be submitted.

26.06. - 11.07.2012

colloquium (if the last exams are passed and the thesis was accepted)

Before we discuss the Diploma Thesis Setup
open a Word document and answer the
following questions.

1. What is your topic?
2. Describe your task.



First step

After you have the topic and task description start

- planning your time (Time management)
- searching for literature (**Literature review**)
- to organise your file – (Tip)

- You have 3 fixed dates
 - 20.02.2012 (Setup)
 - 23.03. – 25.06.2012 (Diploma Thesis)
 - 26.06. – 11.07.2012 (Colloquium)
- Plan (Setup – Diploma Thesis)
 - Monthly
 - 20.02 → 20.03. → 20.04. → 20.05 → 20.06 + 4 days
 - Weekly
 - Daily
- Plan (Colloquium)

Open Excel and start planning your time following the instruction in class.

Monthly

17.03 → 17.04. → 17.05 → 17.06 → 25.06

Weekly

Daily

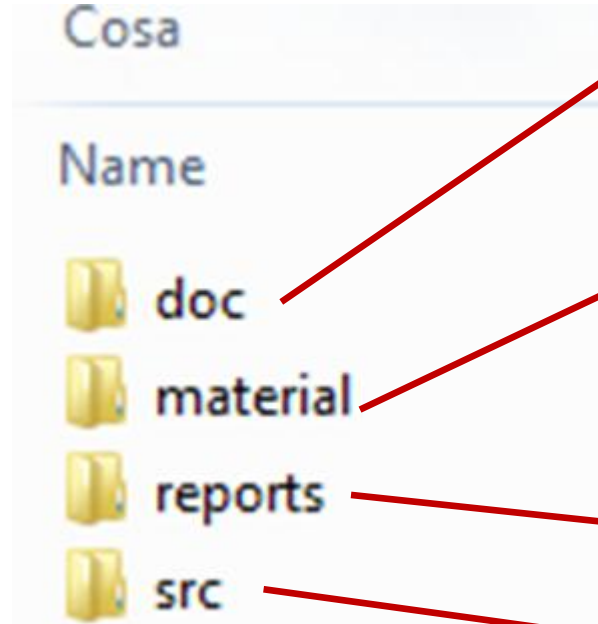
■ Where are you going to search materials for your thesis?

- Library – books
- Online catalog
<http://kiopc4.ub.uni-kiel.de:8080/DB=4/LNG=DU&/>
- Internet
 - PDF search engine – <http://search-pdf-books.com/>
references with scientific content
 - Wikipedia
good for definition as well as introduction
not good for deep knowledge/understanding

➔ Depending on the Task these are the stuff you finally use in your text!

How to organise your file – (Tip)

<http://www.cosa.fh-luebeck.de>



- add Documents and images here
- references books, pdfs, articles, data sheets, webpages
- weekly reports
- programming sources

Exercise – Search and organise

- Search in the PDF search engine some material for your Diploma thesis

<http://search-pdf-books.com/>

- Organize your material using the file system

<http://www.cosa.fh-luebeck.de>

Important!

Write down all Url address and the date !!



Tip - How to read

- Efficient Reading

http://john.regehr.org/reading_list/efficientReading.pdf

- Recession – Review



The Structure of the Diploma Thesis

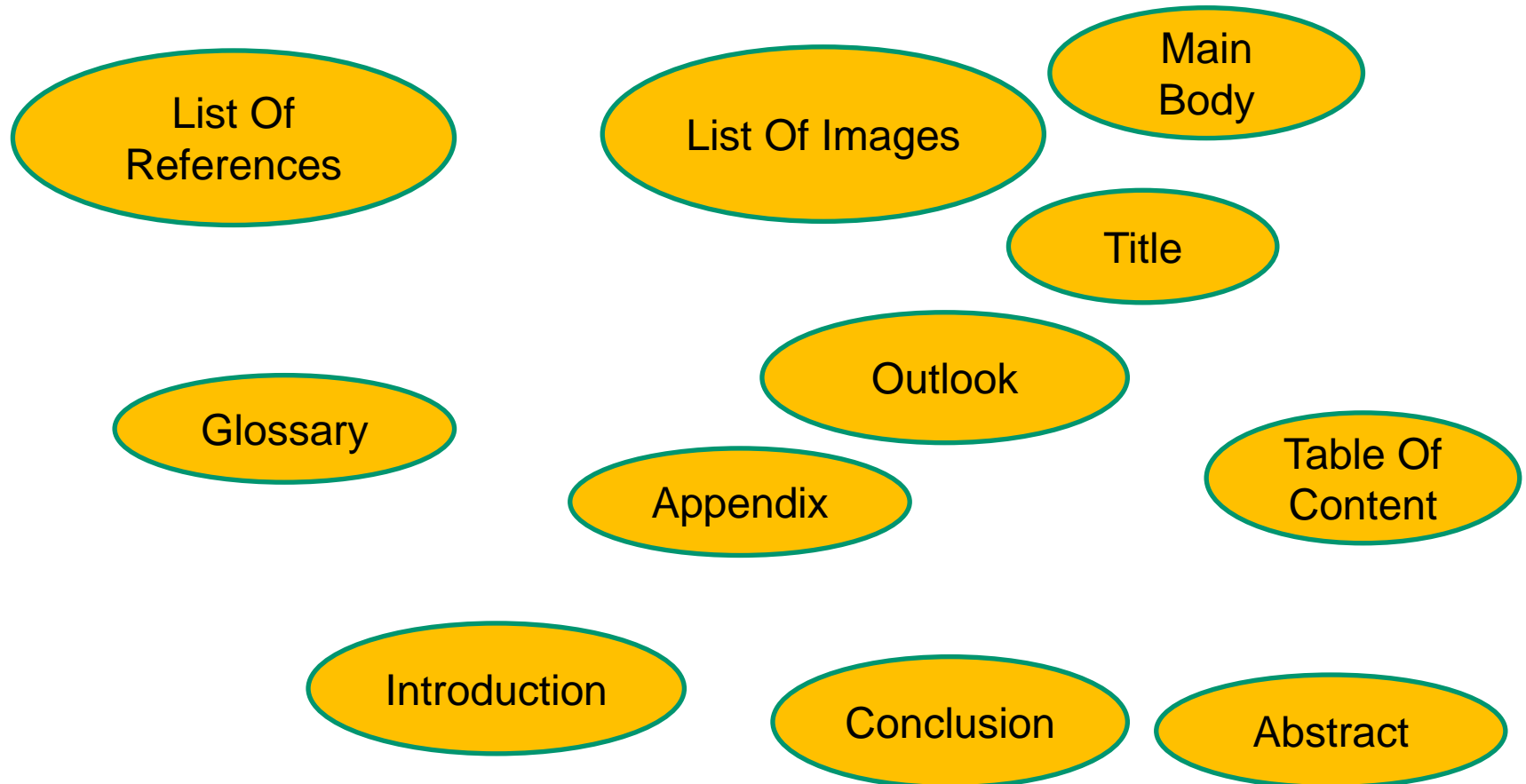
- What do you understand under Structure?
 - The thesis must show a clear and understandable structure
 - Outline, format (check if there is a preferable format)
- Basic Structure

Basic Structure

■ It should contain

- 1. Abstract
Summarise your research, results and conclusions
- 2. Introduction
Fundamentals and basic knowledge leading to your work
- 3. Problem, question
Theoretical or Experimental
- 4. solution, applications
Collection and presentation of your results
- 5. Conclusion
- 6. Future Developments

■ Sort the following Items to have a logical Outline



- 1. Title
- 2. Abstract - Short description / Summary
- 3. Table Of Content - Structure
- 4. Introduction
- 5. Main body
- 6. Conclusion
- 7. Outlook / Future Developments
- 8. Acknowledgements
- 9. List Of References
- 10. List Of Images – List of Figures
- 11. Glossary - Description of symbols and abbreviations
- 12. Appendix - supporting evidence (e.g. experimental data, or a written-out proof, program code)

- 1. Introduction
- 2. State of the Art
- 3. Experimental Set-Up
- 4. Experimental Procedure- Description of the realisation of the works
 - 4.1 ...
 - 4.2 ...
- 5. Results
- 6. Discussion - Critical analysis of the results
- 7. Conclusion (or Perspective)- Consequences and open questions
- 8. List of References
- 9. Appendix

To achieve logical Structure

- Scientific Research are all structured in the same way
 - **First** divide the work into section
 - **Second** break each section down into subsections
 - **Third** make a list of relevant points
 - **Finally** develop each points into a paragraph



Abstract

■ Definition

- Oxford English dictionary
 - as Summary of a contents of book, article ...
- ➔ “abstract” is used for a summary

■ Writing the abstract in logical steps

- by describing the domain, problems, questions
- by describing the task
- preparing data collection, background,
(Literature review)
- Explaining your own solution, why you have chosen,
to make it this way.
- Discussing Result

➔ Did you made a contribution knowledge?

- To define the task by yourself shows that you did understand what has to be done
- The supervisor will also see what was difficult to solve



Exercise

- 1. There are more than 20 mistakes in the given abstract. Find out the mistakes and correct them**



Further Reading

Article

- http://john.regehr.org/reading_list/efficientReading.pdf
- <http://www.sce.carleton.ca/faculty/chinneck/thesis.html>

Book

- Tim Skern, (2009). Writing Scientific English. Wien, Universtätsverlag: Facultas Verlags- und Buchhandels AG

Thank you for your attention

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Room 18 – 2.02