

Academic Skills in Computer Science Summer Term 2018

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<http://st.inf.tu-dresden.de/teaching/acse>



DRESDEN
concept
Exzellenz aus
Wissenschaft
und Kultur



What this course is about

- ▶ You will learn and practice how to work scientifically
 - From an initial idea
 - Until a published thesis or paper
 - Including its disputation in various forms
- ▶ Course adequate for all levels
 - Bachelor
 - Master
 - PhD
- ▶ The goal of this course is to enable you to **conduct your thesis**.
 - Spanning the full process from the idea until the submitted thesis

The nature of this course

- ▶ This course is not a typical lecture
 - The German term “Vorlesung” originates from Middle Age
 - Most people couldn't read
 - The lecturer read out loud books for his/her students

- ▶ You can read yourself
- ▶ Hence, there is no need to read out loud to you

- ▶ Instead:
 - We will discuss specific topics
 - You need to participate in these discussions
 - There is no single truth → question the facts presented to you

Course Outline (can be shaped by you)

Date	Topic
10.04.2018	Introduction
17.04.2018	What is science?
24.04.2018	Research Processes – How to work structurally?
01.05.2018	Public Holiday / No lecture
08.05.2018	Information Gathering – How to find what to read?
15.05.2018	Solution Design Processes – How to analyse and present your solution?
22.05.2018	Pentecost / No lecture
29.05.2018	Research Hypotheses
05.06.2018	Types of Research Papers
12.06.2018	Revising and Reviewing Papers
20.06.2018	How to do scientific presentations?
27.06.2018	t.b.d.
04.07.2018	t.b.d.
11.07.2018	t.b.d.
18.07.2018	t.b.d.

Course Outline (can be shaped by you)

- ▶ 4 lectures are „to be defined“
- ▶ Also the other topics can be exchanged, if you want

- ▶ Topics depend on your current academic level
 - Special topics mostly relevant to PhD students:
 - How to write a research proposal?
 - How to organize a scientific workshop?
 - Topics interesting for Master+PhD students
 - The PhD process
 - Topics interesting for all
 - Ethics in Computer Science

- ▶ Special topics depending on your research focus
 - How to collect and evaluate measurements? (The „R“ Language)

- ▶ LaTeX will be taught as part of the exercise

Discussion

- ▶ What are your expectations from this course?