DEGREE PROJECT IN TECHNOLOGY,
SECOND CYCLE, 30 CREDITS
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Template

KTH Thesis Report

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Abstract

This is a template for writing thesis reports for the ICT school at KTH. I do not own any of the images provided in the template and this can only be used to submit thesis work for KTH.

The report needs to be compiled using XeLaTeX as different fonts are needed for the project to look like the original report. You might have to change this manually in overleaf.

This template was created by Hannes Rabo <hannes.rabo@gmail.com or hrabo@kth.se> from the template provided by KTH. You can send me an email if you need help in making it work for you.

Write an abstract. Introduce the subject area for the project and describe the problems that are solved and described in the thesis. Present how the problems have been solved, methods used and present results for the project. Use probably one sentence for each chapter in the final report.

The presentation of the results should be the main part of the abstract. Use about ½ A4-page. English abstract

Keywords

Template, Thesis, Keywords ...

Abstract

Svenskt abstract Svensk version av abstract – samma titel på svenska som på engelska.

Skriv samma abstract på svenska. Introducera ämnet för projektet och beskriv problemen som löses i materialet. Presentera

Nyckelord

Kandidat examensarbete, ...

Acknowledgements

Write a short acknowledgements. Don't forget to give some credit to the examiner and supervisor.

Acronyms

CPU Central Processing Unit

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Chapter 1

Introduction

Provide a general introduction to the area for the degree project. Use references!

Link things together with references. This is a reference to a section: 1.1.

1.1 Background

Present the background for the area. Give the context by explaining the parts that are needed to understand the degree project and thesis. (Still, keep in mind that this is an introductory part, which does not require too detailed description).

Use references[1]

Detailed description of the area should be moved to Chapter 2, where detailed information about background is given together with related work.

This background presents background to writing a report in latex.

Example citation [1] or for two authors: [1, 2]

Look at sample table 1.1.1 for a table sample.

Boxes can be used to organize content

[1]You can also add footnotes if you want to clarify the content on the same page.

Table 1.1.1: Sample table. Make sure the column with adds up to 0.94 for a nice look.

SAMPLE	TABLE
One	Stuff 1
Two	Stuff 2
Three	Stuff 3

Development environment for prototype

```
Operating systems
computer: Linux - kernel 4.18.5-arch1-1-ARCH
android phone: 8.1.0

Build tools
exp (build tool): version 55.0.4

...
```

1.2 Problem

Present the problems found in the area. Preferable use and end this section with a question as a problem statement.

Use references Preferable, state the problem, to be solved, as a question. Do not use a question that can be answered with yes and/or no.

Use acronyms: The Central Processing Unit (CPU) is very nice. It is a CPU

1.3 Purpose

The purpose of the degree project/thesis is the purpose of the written material, i.e., the thesis. The thesis presents the work / discusses / illustrates and so on.

It is not “The project is about” even though this can be included in the purpose. If so, state the purpose of the project after purpose of the thesis).

1.4 Goal

The goal means the goal of the degree project. Present following: the goal(s), deliverables and results of the project.

1.5 Benefits, Ethics and Sustainability

Describe who will benefit from the degree project, the ethical issues (what ethical problems can arise) and the sustainability aspects of the project.

Use references!

1.6 Methodology

Introduce, theoretically, the methodologies and methods that can be used in a project and, then, select and introduce the methodologies and methods that are used in the degree project. Must be described on the level that is enough to understand the contents of the thesis.

Use references!

Preferably, the philosophical assumptions, research methods, and research approaches are presented here. Write quantitative / qualitative, deductive / inductive / abductive. Start with theory about methods, choose the methods that are used in the thesis and apply.

Detailed description of these methodologies and methods should be presented in Chapter 3. In chapter 3, the focus could be research strategies, data collection, data analysis, and quality assurance.

1.7 Stakeholders

Present the stakeholders for the degree project.

1.8 Delimitations

Explain the delimitations. These are all the things that could affect the study if they were examined and included in the degree project. Use references!

1.9 Outline

In text, describe what is presented in Chapters 2 and forward. Exclude the first chapter and references as well as appendix.

Chapter 2

<Theoretical Background>

In this chapter, a detailed description about background of the degree project is presented together with related work. Discuss what is found useful and what is less useful. Use valid arguments.

Explain what and how prior work / prior research will be applied on or used in the degree project /work (described in this thesis). Explain why and what is not used in the degree project and give valid reasons for rejecting the work/research.

Use references!

2.1 Use headings to break the text

Do not use subtitles after each other without text in between the sections.

2.1.1 Related Work

You should probably keep a heading about the related work here even though the entire chapter basically only contains related work.

Chapter 3

<Engineering-related content, Methodologies and Methods>

Describe the engineering-related contents (preferably with models) and the research methodology and methods that are used in the degree project.

Most likely it generally describes the method used in each step to make sure that you can answer the research question.

3.1 Engineering-related and scientific content:

Applying engineering related and scientific skills; modelling, analysing, developing, and evaluating engineering-related and scientific content; correct choice of methods based on problem formulation; consciousness of aspects relating to society and ethics (if applicable).

As mentioned earlier, give a theoretical description of methodologies and methods and how these are applied in the degree project.

Chapter 4

<The work>

Describe the degree project. What did you actually do? This is the practical description of how the method was applied.

Chapter 5

<Result>

Describe the results of the degree project.

Chapter 6

<Conclusions>

Describe the conclusions (reflect on the whole introduction given in Chapter 1).

Discuss the positive effects and the drawbacks.

Describe the evaluation of the results of the degree project.

Describe valid future work.

The sections below are optional but could be added here.

6.1 Discussion

6.1.1 Future Work

6.1.2 Final Words

If you are using mendeley to manage references, you might have to export them manually in the end as the automatic ways removes the ”date accessed” field

Bibliography

[1] Jones, Gareth J., Edwards, Michael B., Bocarro, Jason N., Bunds, Kyle S., and Smith, Jordan W. “Leveraging community sport organizations to promote community capacity: Strategic outcomes, challenges, and theoretical considerations”. In: *Sport Management Review* (2017). ISSN: 14413523. DOI: 10.1016/j.smr.2017.07.006. URL: http://dx.doi.org/10.1016/j.smr.2017.07.006.

[2] Liu, Bo, Zhang, Yanxin, Liu, Fangcui Jiang Lei, and Gao, Yanping. “Group consensus for a class of discrete-time heterogeneous multi-agent systems in directed topology”. In: *Proceedings - 2017 32nd Youth Academic Annual Conference of Chinese Association of Automation, YAC 2017* (2017), pp. 376–381. DOI: 10.1109/YAC.2017.7967437.

Appendix - Contents

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Appendix A

First Appendix

This is only slightly related to the rest of the report

Appendix B

Second Appendix

this is the information