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| Tero Ala-Hulkko |
| Modernization of a legacy codebase |
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| Cloud-Based Software Engineering |
| 2024 |

VAASAN AMMATTIKORKEAKOULU (koko 12)

Cloud-Based Software Engineering

**TIIVISTELMÄ (koko 14)**

Tekijä Etunimi Sukunimi

Opinnäytetyön nimi Opinnäytetyön nimi :

Mahdollinen alaotsikko

Vuosi 202X

Kieli suomi

Sivumäärä 43 + 3 liitettä

Ohjaaja Etunimi Sukunimi

Tiivistelmässä käytetään rivinväliä 1. Tiivistelmä kirjoitetaan täydellisinä lauseina. Sähketyyliä ei käytetä, ei liioin alleviivauksia, kursivointeja tai harvennuksia. Tiivistelmän pituus on 75 - 200 sanaa. Teksti on hyvä jakaa kappaleisiin luettavuuden takia, esimerkiksi seuraavan kaavan mukaan:

Ensimmäisessä kappaleessa kuvaillaan lyhyesti tutkimuksen taustaa ja tutkimusongelmaa sekä tutkimuksen tehtävää.

Toisessa kappaleessa kuvaillaan lyhyesti tutkimuksen teoreettista viitekehystä, keskeisiä käsitteitä sekä tutkimuksessa käytettyjä menetelmiä ja tutkimusaineistoa.

Kolmannessa kappaleessa esitetään lyhyesti tutkimuksen keskeisiä havaintoja ja tuloksia sekä keskeisiä johtopäätöksiä ja tulkintoja.

Note: Only Finnish students include an abstract in Finnish if the thesis is writ-ten in English.

Avainsanat oppiminen, tehokkuus, opetusmenetelmät  
 (4–5 avainsanaa)

VAASAN AMMATTIKORKEAKOULU

Cloud-Based Software Engineering

**ABSTRACT (font size 14)**

Author Tero Ala-Hulkko

Title Title of the Thesis

Possible subtitle

Year 202X

Language Finnish

Pages 43 + 3 Appendices

Name of Supervisor First name last name

The abstract is written here using single spacing. The abstract should briefly state the background, aim, material and methods, as well as results and conclusions of the thesis.

Always use the official name of your degree programme (the official name in degree programmes instructed in Finnish is in Finnish)

Use Finto (n.d.) to find keywords.

Keywords learning, stimulation, teaching methods

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# Introduction

Use this base when writing an exercise or thesis for VAMK. In the exercises, you can remove the cover and table of contents pages, follow the teacher's instructions.

The more familiar you are with this template, accessibility and other features of the word processing program you use before starting the thesis, the better you will be able to focus on the writing itself.

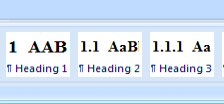
See more detailed instructions at <https://vamk.libguides.com/writinginstructions/writing>

## Examples of figures and tables

Make sure that you make reference to figures and tables in the text.

Take accessibility into account by adding alternative text to images/figures and defining a title line for tables.

Example of the figure:



**Figure 1.** Style menu window. (MS Office screen capture)

Example of the table:

**Table 1.** Examples of rows.

| **This is heading** | **This is heading too** |
| --- | --- |
| First | Check the reading order with the tab key |
| Second |  |
| Third |  |

# Layout

## Margins, spacing and font sizes

As in this template, the margins are: the upper margin 3 cm, the lower margin 3 cm, the left margin 4 cm and the right margin 3 cm. The recommended font is either Calibri (Body) and Arial. The font size in the body text and in lists is 12. The font size can be 14 in headings and 10 in for example tables. The captions of figures, photos and tables are written in font size 12.

The spacing is 1.5 in the body text. The hyphenation is on and the text is aligned to both the left and right margins. Let the word processor do the row change, press enter only when starting a new paragraph. The spacing between the paragraphs is 12 points (settings: before 0, after 12 pt). A new chapter starts on a new page.

## Use of Styles and Contents Page

The style attached with the text can be determined by taking the mouse onto the text and right-clicking the mouse. The style chosen can be seen in the style menu (Figure 1). On the same window, you can change the style.

When the heading has been formatted using the styles, the contents page can be updated by clicking on the contents page and choosing ”update field” and then by choosing ”update entire table”. The pre-entered heading styles are not used in the abstract and on the contents page or the list of appendices page (heading size 14), the body text on these pages uses style Abstract (font size 12, line spacing 1, paragraph spacing 12 points after).

Errors in the layout are most often caused by the wrong style or the fact that the style has been copied from another Word document.

## Referencing and the List of References

You can use either an APA 7 reference style name reference or a Vancouver style number reference.

Each source cited in the text is also cited in the bibliography. Correspondingly, every source mentioned in the bibliography must have a reference in the text.

# References

Finto. (n.d.). YSO - General Finnish ontology. Retreived 2023-06-27. <https://finto.fi/yso/en/>

# Appendices

APPENDIX 1

**WHAT TO INCLUDE TO APPENDICES**

You can enclose as appendices for example a questionnaire used in the study or other material that is related to the study.

Material that the client wished to classify can be enclosed as an appendix; in this case, the appendix is not included in the published version submitted to Theseus or in the hardbound version.

**THE TITLES AND NUMBERING OF APPENDICES**

The appendices are numbered and given a title. When you refer to an appendix in the text, use the correct referencing practice. Remember to mention the number of the appendix.

APPENDIX 2