First name and surname

**Title**

Bachelor Thesis

in the Area Supply Chain Management

Supervisor: [Prof. Dr. Mustermann]

Bachelor of Science (B. Sc.) in Business Administration

Faculty of Management, Economics and Social Sciences

University of Cologne

Cologne, [date of submission]

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# List of figures

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# List of abbreviations

All abbreviations that are used in the bachelor thesis have to be listed here, if there are a lot of them and it appears to make sense. Common abbreviations, such as etc., should not be listed. There are also a few abbreviations that do not need to be mentioned in the List of Abbreviations. They should rater be explained directly in the text when they appear for the first time.

The following table can be used as a template. After listing all abbreviations, you should delete spare lines, select the entire table and then arrange the components of the table in alphabetical (ascending) order, using the tab “Layout of tables”.

|  |  |
| --- | --- |
| CR | Critical Ratio |
| DC | Distribution Center |
| DimWt | Dimensional Weight |
| DP | Demand Planning |
| ROI | Return on Investment |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |
| ... |  |

# Introduction (Format „Heading 1“)

Usually, the format „Standard“ is used for the text. All other format templates should be self-explanatory.

For further information regarding theses at the Wiso-Faculty, please visit the website of the examination office („WiSo-Prüfungsamt“).

For examination regulations of 2015, please click this link:

<https://www.wiso.uni-koeln.de/de/fakultaet/dekanat/pruefungsaemter/po-2015/abschlussarbeiten/>,
For examination regulations of 2008, please click this link:

<https://www.wiso.uni-koeln.de/de/fakultaet/dekanat/pruefungsaemter/po-20072008/abschlussarbeiten/>

(Status: 09.04.2020)

# Main body

There always has to be a (mostly introductory) text between two headings. Please note that a new chapter does **not** have to start on a new page. The main body usually consists of more than one chapter.

## First sub-section (Format „Heading 2“)

You should use a spacing of 1.5, a serif font (such as Times New Roman) with a size of 12pt and the format “full justification” (“Blocksatz”).

The margins of the pages have to be set as follows: Left: 4 cm, Right: 2,5 cm, Upper: 2,5 cm, Lower: 2,5 cm.

All pages have to be numbered consecutively. For the pages prior to the introduction, you should use Roman numbering (I, II, III, ...). However, please note that even though the front page counts as a page, it should not be numbered. For the pages starting with the introduction you have to use Arabic numbers (1, 2, 3,…).

The bachelor thesis should be 25 pages long (excluding table of contents, list of abbreviations, list of tables and figures, and appendix). All figures and tables in the main body are included in the 25 pages.

## Other sub-sections follow...

Each sections should have at least two sub-sections, meaning that 1.1 has to be followed by 1.2.

## Other sub-section

The figures should be inserted using the button „Insert picture from file“. Afterwards, they should be centered. See the example Figure 1

Figure 1: Number of visitors of the zoo in Cologne

The caption for the figure in the following line has to be generated via the format „Caption“. This formatting is necessary for the List of Figures and Tables. To create a caption, go to the tab „Reference“, then click „Insert Caption“. Select „Figure“ or „Table“ and fill in the description.

## An example of a table

|  |  |  |
| --- | --- | --- |
| Size | μ | σ |
| M | 40 | 20 |
| L | 40 | 20 |
| XL | 100 | 40 |

Table 1: Sales quantity of Zoo T-Shirts per month

The labelling of tables follows the same procedure as the one for figures and should be consistent. The caption is either placed below or above the table and should be formatted as „Caption“ (see 2.2 for an instruction). All used figures and tables have to be mentioned in the text (e.g. see Table 1). The corresponding reference can be inserted via „Insert 🡪 Cross-Reference“.

## Submission

Please always check the current guidelines on the Website of the examination office (“Wiso-Prüfungsamt”).

In addition to the official submission at the examination office, please also send your bachelor thesis in digital form (pdf-format) to your supervisor.

## Citations

The use of knowledge from external sources has to be labelled with a reference to the author and the year of publication. Corresponding to that, the source has to be mentioned in the Reference List.

### Citations in the text

For all citations in the text, please use the Harvard citation style. In the case of word-for-word reproduction, you have to use quotation marks before and at the end of the quotation. If content is only indirectly reproduced in own words, no quotation marks are needed. However, you should make it clear that the knowledge and the ideas you are using are not your own. You do that by inserting a citation at the end of your sentence as follows:

* Surname of the author (if there are two authors, both names are connected with “and”; if there are three or more authors, only the surname of the first author is mentioned and “et al.” is added)
* Year of publication, e.g. 2009
* Page number, if relevant (with abbreviation “p.” for page)

If you are quoting something word-for-word, it is recommended to add the corresponding page number. The same can be applied to the citation of books (e.g. “Thonemann 2010, S.198”). If you reproduce something indirectly, the latter is not necessary.

Examples:

* Human behavior, such as misunderstandings concerning information about storage and demand, can cause the bullwhip-effect (Sherman 1989).
* Lee et al. (1997) analyzed four sources of the bullwhip-effekt ...

### Reference list

The literature has to be arranged in alphabetical order by the name of the first author. If one author has several publications, the year of publications is used for sorting. In the case of several publications in the same year, lower case letters are used (e.g. “Thonemann 2001a”). You can find examples for quoting different sources in the Reference List of this text.

## Listings/Numerations

For numerations or listings, you can use either bullet points or Arabic numbers.

First possibility looks as follows:

* …
* …

Second possibility looks as follows:

1. …
2. …

## Formulas

Formulas should be used if they support the explanation. For few formulas, the formula editor integrated in Microsoft Word is sufficient. Alternatively, LaTeX can be used.

A formula should - if it is not extremely short - be presented in a separate line. For referencing, formulas should be numbered consecutively with Arabic numbers. The numbers should be aligned right in the last line of a formula. Formulas and variables must always be explained in the text.

Example: The following formula describes the expected mean snake length LQ

of a (M/M/1) system, where represents the expected utilization:

$LQ= \frac{ρ^{2}}{1-ρ} .$ (1)

If you present an entire optimization model, the objective function and constraints should be numbered individaully. In addition, the model including variables, parameters and indices should be explained in the text.

# Conclusion and outlook

The fundamental findings of the bachelor thesis are summarized at the end. The Outlook is used for referring to possible future developments and research directions.

# Reference list

The Reference List is **not** created separately for different kinds of sources (books, papers, websites, etc.). The sources are only listed separately here to clarify how different types of sources need different citations. Please also refer to Section 2.6.2.

In order to simplify the management of literature, there are specific literature management programs, such as *Citavi*, *Zotero* or *Mendeley* with plug-ins or add-ins for Word. We highly recommend using such a program.

As an alternative, you can use the literature management of Word that allows you to create a reference list automatically. Click [here](https://support.office.com/en-us/article/create-a-bibliography-citations-and-references-17686589-4824-4940-9c69-342c289fa2a5) for the official instruction.

We do not recommend creating the reference list manually. This is very time-consuming and particularly prone to error.

**Articles in journals and magazines**

Fisher, M.L., Raman, A., McClelland, A. 2000. Rocket science retailing is almost here – Are you ready? *Harvard Business Review* 78(4), 115-124.

Sterman, J.D. 1989. Modeling managerial behavior: Misperceptions of feedback in a dynamic decision-making experiment. *Management Science* 35(3), 321-339.

Tversky, A., Kahneman, D. 1974. Judgment under uncertainty. Heuristics and biases. *Science* 185(4157), 1124-1131.

**Articles in reviewed editions and Proceedings**

Bolotin, V. 1994. Telephone circuit holding-time distributions. J. Labetoulle, J. W. Roberts, eds. *Proceedings of the International Teletraffic Congress, ITC* 14. North-Holland, Amsterdam, Netherlands, 125–134.

Cachon, G. P. 2003. Supply chain coordination with contracts. S. Graves, T. de Kok, eds. *Handbook of Operations Research and Management Science: Supply Chain Management*. Elsevier, Amsterdam, Netherlands, 227–339.

Kahneman, D., Frederick, S. 2002. Representativeness revisited. Attribute substitution in intuitive judgment. T. Gilovich, D. Griffi, D. Kahneman, eds. *Heuristics and biases. The psychology of intuitive judgment.* Cambridge University Press, New York, 49–81.

**Books**

Cachon, G. P., Terwiesch, C. 2009. *Matching supply with demand. An introduction to operations management.* 2nd ed. Irwin/McGraw-Hill, Boston, MA.

Hopp, W., Spearman, M. 1996. *Factory physics*. Irwin/McGraw-Hill, New York.

Thonemann, U. 2010. *Operations Management. Konzepte, Methoden und Anwendungen*. 2nd ed. Pearson Studium, München.

**Working Papers**

Schultz, K. L., McClain, J. O., Robinson, L. W., Thomas, L. J. 2007. The use of framing in inventory decisions. Working paper, Cornell University, Ithaca, NY.

**Websites**

Supply Chain Council. 2013. Supply Chain Operations Reference (SCOR) model – Overview – Version 10.0. Available online at https://supply-chain.org/f/SCOR-Overview-Web.pdf, checked on 26/02/2018.

# Appendix

The appendix lists all explanations, figures and tables that are not needed to understand the main body but provide additional insights. Examples could be further explanations of specific concepts or data that is mentioned only for the sake of completeness.

In the case of extensive documentation (e.g. program code or questionnaire), it can be agreed on an individual exception (e.g. appendix on a DVD).

If the appendix includes more than one point, you should put the different points in order (Appendix A, Appendix B, Appendix C,...).

**Statutory declaration**

The form for the statutory declaration can be found on the website of the examination office (“Wiso-Prüfungsamt”). The statutory declaration should not be integrated into the printed version. Instead, it should be printed out separately, filled in and enclosed as a loose paper.