

**Title of my Thesis Plus Some Text to Exceed
a Single Line and Maybe Even Long Enough
to Produce Three Lines (but not More!)¹**

Template for preparing Bachelor Theses at the Faculty of
Engineering Sciences, Universität Innsbruck²

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Innsbruck, December 8, 2022

Bachelorarbeit

verfasst im Rahmen eines gemeinsamen Bachelorstudienprogramms
von UIBK und UMIT – Joint Degree Programme

eingereicht an der Universität Innsbruck, Fakultät für Technische
Wissenschaften zur Erlangung des akademischen Grades

Bachelor of Science

Beurteilerin:³

Univ.-Prof. Dr. Anke Bockreis

Institut für Infrastruktur

Arbeitsbereich für Umwelttechnik

¹Title and subtitle in English if text is written in English. Remaining parts of titlepage must be in German!

²Subtitle is optional.

³Evaluator is instructor of lecture in which bachelor thesis is written.

Formal Structure of a Bachelor Thesis

This bachelor thesis is to be printed one-sided.

- The bachelor thesis is structured as follows:
 - Page 1: Titlepage
 - Page 2: Acknowledgment (optional)
 - Page 3: Kurzfassung (in German!)
 - Page 4: Abstract (in English!)
- This is followed by:
 - Table of Contents
 - List of Figures (optional)
 - List of Tables (optional)
 - First Chapter
 - ...
 - Last Chapter
 - Bibliography (numeric citation style as in this template is not obligatory; you may also use an author-year style)
 - Appendix (optional)
 - Last page: Verpflichtungs- und Einverständniserklärung (in German!)

Electronic Submission

For electronic submission the thesis is to be converted into pdf-format. It is required that this file is not password protected!

Using the LaTeX Template

The LaTeX template is based on the KOMA-script bundle. You may use configuration options of this group of classes to customize the look of your thesis.

Markus Kohm. *KOMA-Script*. Edition DANTE. Lehmanns Media, Berlin, 7. Auflage, 2020, ISBN 978-3-96543-097-6. Print Ausgabe.

<https://komascript.de/mkohm/scrguide.pdf>.

Short description of class options

uni: Options are UIBK or UMIT.

type: Options are BA (Bachelor), MA (Master), or PhD (PhD).

lang Options are english or german.

study Options are BauUmwelt (Bau und Umweltingenieurwissenschaften), Bau (Bauingenieurwissenschaften), Umwelt (Umweltingenieurwissenschaften), Mech (Mechatronik), Elek (Elektrotechnik), or Doktorat (Doktorat Technische Wissenschaften).

specialization Options are

- BBP (Baustoffe, Baubetrieb und Projektmanagement)
- KIB (Konstruktiver Ingenieurbau)

- MOS (Modellierung und Simulation)
- EEG (Energieeffiziente Gebäude)
- GVW (Geotechnik, Vermessung und Wasserbau)
- UVW (Umwelttechnik und Verkehrswesen)

This option only has an effect for the Master programs Bauingenieurwissenschaften or Umweltingenieurwissenschaften.

expose Options are false and true. Default is is false. Can be used for all sorts of exposés (BA, MA, PhD).

explanation Options are false and true. Set to false for final version!

```
\documentclass[
uni=UIBK,
type=MA,
lang=english,
study=Mech,
% specialization=BBP,
% expose=false,
% explanation=false,
]{ftwthesis}
```

Acknowledgment

Optional. If not needed, just delete or leave empty.

Kurzfassung

Kurzfassung Ihrer Arbeit in deutscher Sprache. Verpflichtend!

Abstract

Abstract of your thesis in English. Compulsory!

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1 Information on this Class

The documentclass `ftwthesis` is based on the KOMA-script class bundle by Markus Kohm, see [1]. You may use the configuration option of this class to change the layout of your thesis.

2 Heading at Level 1 (section)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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2.1 Heading at Level 2 (subection)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Heading at Level 3 (subsubsection)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Heading at Level 4 (paragraph) Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should

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3 Lists

Example of a List (itemize)

- First item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Example of a List (4 * itemize)

- First item in a list
 - First item in a list
 - * First item in a list
 - First item in a list
 - Second item in a list
 - Third item in a list
 - Fourth item in a list

- Fifth item in a list
- * Second item in a list
- * Third item in a list
- * Fourth item in a list
- * Fifth item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list
- Second item in a list
- Third item in a list
- Fourth item in a list
- Fifth item in a list

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Example of a List (enumerate)

1. First item in a list
2. Second item in a list
3. Third item in a list
4. Fourth item in a list
5. Fifth item in a list

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Example of a List (4 * enumerate)

1. First item in a list
 - a) First item in a list
 - i. First item in a list
 - A. First item in a list
 - B. Second item in a list

- C. Third item in a list
- D. Fourth item in a list
- E. Fifth item in a list
- ii. Second item in a list
- iii. Third item in a list
- iv. Fourth item in a list
- v. Fifth item in a list
- b) Second item in a list
- c) Third item in a list
- d) Fourth item in a list
- e) Fifth item in a list
- 2. Second item in a list
- 3. Third item in a list
- 4. Fourth item in a list
- 5. Fifth item in a list

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Example of a List (description

- First** item in a list
- Second** item in a list
- Third** item in a list
- Fourth** item in a list
- Fifth** item in a list

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



Figure 1: Logo of the Universität Innsbruck (example of a figure)

Table 1: Multiplication table for quaternions (example of a table)

	1	i	j	k
1	1	i	j	k
i	i	-1	k	-j
j	j	-k	-1	i
k	k	j	-i	-1

4 Frequently Asked Questions

Eine bereits verwendete Vorlage für Abschlussarbeiten funktioniert nicht mehr.

Eine mögliche Ursache ist der Wechsel der zugrunde liegenden Dokumentklasse von memoir auf KOMA-Script mit Version 2.0 (Dezember 2022).

Wie kann ich den Satzspiegel ändern?

Der durch die Klasse vorgegebene Satzspiegel hat historische Gründe, ist aus typographischer Sicht nicht optimal und sollte geändert werden. Er kann zum Beispiel mit Hilfe des Pakets geometry einfach angepasst werden. Allerdings benötigt es Geschmack und Expert:innenwissen, um zu einer guten Einstellung zu gelangen. Eine einfachere Methode, die im Normalfall zu guten Ergebnissen führt, besteht im Aufruf von `\typearea[BCOR]{DIV}` in der Dokumentpräambel. Dabei ist BCOR eine Länge zur Bindekorrektur für die gedruckte Version Ihrer Arbeit (0mm, falls Ihre Arbeit nicht gedruckt wird) und DIV ein natürliche Zahl, zum Beispiel

```
\typearea[8mm]{12}
```

[1]. Beachten Sie, dass Masterarbeiten und Dissertationen im Normalfall doppelseitig gedruckt werden. Deshalb werden dort ein innerer und ein äußerer Rand unterschieden.

Eine lange Kapitelüberschrift verursacht Probleme mit dem Zeilenumbruch in der Kopfzeile.

Geben Sie eine optionale Kurzversion der Kapitelüberschrift an:

```
\chapter[Kurze Kapitel\"überschrift]{Eine laaaaaaaaaaaaaange
Kapitel\"überschrift, die Probleme mit dem Zeilenumbruch verursacht}
```

Beachten Sie, dass die Kurzversion auch in Inhaltsverzeichnis aufscheint.

Wie soll ich Artikel in meine kumulative Dissertation einbinden?

Verwenden Sie das Paket pdfpages:

```
\usepackage{pdfpages}
...
\includepdf[pages=-]{mein-artikel.pdf}
```

Eventuell wollen Sie diesen Artikel auch ins Inhaltsverzeichnis aufnehmen:

```
\includepdf[pages=-,%
pagecommand={%
\phantomsection%
\addcontentsline{toc}%
{section}%
{Titel f\"ur das Inhaltsverzeichnis}}]{%
mein-artikel.pdf}
```


References

- [1] Markus Kohm. *KOMA-Script*. Edition DANTE. Lehmanns Media, Berlin, 7 edition, 2020. ISBN 978-3-96543-097-6.

Verpflichtungs- und Einverständniserklärung

Ich erkläre, dass ich meine Bachelorarbeit selbständig verfasst und alle in ihr verwendeten Unterlagen, Hilfsmittel und die zugrunde gelegte Literatur genannt habe.

Ich nehme zur Kenntnis, dass auch bei auszugsweiser Veröffentlichung meiner Bachelorarbeit die Universität, das/die Institut/e und der/die Arbeitsbereich/e sowie die Leiterin bzw. der Leiter der Lehrveranstaltung, im Rahmen derer die Bachelorarbeit abgefasst wurde, zu nennen sind.

Ich nehme zur Kenntnis, dass meine Bachelorarbeit zur internen Dokumentation und Archivierung sowie zur Abgleichung mit der Plagiatssoftware elektronisch im Dateiformat pdf ohne Kennwortschutz bei der Leiterin bzw. beim Leiter der Lehrveranstaltung einzureichen ist, wobei auf die elektronisch archivierte Bachelorarbeit nur die Leiterin bzw. der Leiter der Lehrveranstaltung, im Rahmen derer die Bachelorarbeit abgefasst wurde, und das studienrechtliche Organ Zugriff haben.

Innsbruck am
.....
Bettina Mayer, BSc