

Title of dissertation (at most three lines!)¹

Template for PhD Exposes at the Faculty of Engineering
Sciences, University of Innsbruck²

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Innsbruck, February 24, 2025

Dissertationsexposé

verfasst im Rahmen des Seminars „Konzipierung der Dissertation“³

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

²Subtitle is optional.

³This template is to be used **exclusively** for exposes written within the seminar “Konzipierung der Dissertation”.

Typical Structure of an Exposé

- Introduction, Motivation
- State of the Art
- Research questions, aims
- Methods
- Workplan
- Agreement upon lectures to attend
- Signatures by student, advisor and seminar teacher

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 LFUI 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 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=LFUI,
type=MA,
lang=english,
study=Mech,
% specialization=BBP,
```

```
% expose=false,  
% explanation=false,  
]{ftwthesis}
```

Exclusion from use (“Sperre”)

If the exclusion from use (“Sperre”) has been approved of, the end of blocking period must be given via the command `\publicafter{}`. If the exclusion from use has not been applied for or has not been granted, this command must not be used.

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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 University of 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 (Sommer 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 eine 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\"uberschrift]{Eine laaaaaaaaaaaaaange  
Kapitel\"uberschrift, 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}}
```

Das Literaturverzeichnis ist Deutsch obwohl meine Dokumentsprache English ist!

Dieses Verhalten tritt auf, wenn Sie ein Exposé in englischer Sprache schreiben und zum Erzeugen des Literaturverzeichnisses das Paket `biblatex` verwenden. Ein Workaround ist, direkt nach `\begin{document}` den Befehl `\selectlanguage{english}` einzufügen.

References

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

Signatures by student, advisor and seminar teacher are compulsory:

Date

Dipl.-Ing. Bettina Mayer, BSc

Date

Univ.-Prof. Dr. Anke Bockreis

Date

Leiter/in SE Konzipierung der Dissertation