

UMIT

the health & life sciences university

Department für Biomedizinische Informatik und Mechatronik

The 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 Master Theses in Mechatronics at UMIT²

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Hall in Tirol, January 30, 2019

Masterarbeit

verfasst im Rahmen eines gemeinsamen Masterstudienprogramms von LFUI und UMIT – Joint Degree Programme

eingereicht an der UMIT – Private Universität für Gesundheitswissenschaften, Medizinische Informatik und Technik, Department für Biomedizinische Informatik und Mechatronik zur Erlangung des akademischen Grades

Diplomingenieurin

Beurteiler:³

Univ.-Prof. Dr. Frank Woittennek

Institut für Automatisierungs- und Regelungstechnik

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

²Subtitle is optional.

³Evaluator is advisor of master thesis. Co-advisor must not act as evaluator.

Betreuer:⁴

Univ.-Prof. Dr. Frank Woittennek, Private Universität für Gesundheitswissenschaften, Medizinische Informatik und Technik, Institut für Automatisierungs- und Regelungstechnik

Mitbetreuer:⁵

Univ.-Prof. Dr. Manfred Husty, Universität Innsbruck, Institut für Grundlagen der Technischen Wissenschaften, Arbeitsbereich für Geometrie und CAD

⁴Only scientific staff of the UMIT or the University of Innsbruck are eligible.

⁵Optional; at most one co-evaluator possible.

Formal Structure of a Master Thesis

This master thesis is to be printed two-sided. New chapters start on a new page.

- The master thesis is structured as follows:
 - Page 1: Titlepage
 - Page 2: Betreuer/in (equals Evaluator), Mitbetreuer/in (if applicable; at most one)
 - Page 3: Acknowledgment (optional)
 - Page 4: Kurzfassung (in German!)
 - Page 5: 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 (if necessary)
 - 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 memoir class. You may use configuration options of this class to customize the look of your thesis.

Peter Wilson. *The Memoir Class for Configurable Typesetting. User Guide*. The Herries Press, Normandy Park, 2016

<http://mirrors.ctan.org/macros/latex/contrib/memoir/memman.pdf>.

Short description of class options

uni: Options are LFUI or UMIT.

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

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.

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

```
\documentclass[
uni=UMIT,
type=MA,
lang=english,
study=Mech,
% specialization=BBP,
% 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 `memoir` class by Peter Wilson (now maintained by Lars Madsen), see [1]. You may use the configuration option of this class to change the layout of your thesis. For example, the command `\defaultlists` increases the vertical spacing in lists [1, p. 136].

2 Heading at Level 0 (chapter)

2.1 Heading at Level 1 (section)

blindtext
blindtext
blindtext

Heading at Level 2 (subection)

blindtext
blindtext
blindtext

Heading at Level 3 (subsubection)

blindtext
blindtext
blindtext

Heading at Level 4 (paragraph) blindtext

blindtext
blindtext

2.2 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 2.1: Logo of the UMIT (example for a figure)

Table 2.1: 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

2.3 Frequently Asked Questions

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 kann ich den Satzspiegel (Seitenränder) ändern?

Verwenden Sie dazu die entsprechenden Befehle der memoir-Klasse. Diese werden in Kapitel 2 der Dokumentation [1] beschrieben. Ein Beispiel ist

```
\setlrmarginsandblock{37.125mm}{*}{*}
\setulmarginsandblock{37.125mm}{*}{*}
\checkandfixthelayout
```

Bitte beachten Sie:

- Das Einstellen der Seitenränder ist typographisch anspruchsvoll und hängt unter anderem vom verwendeten Papierformat, der Schriftart und der Art der Bindung ab.
- *Wichtig:* Ändern Sie den Satzspiegel erst nach `\begin{document}`! Ansonsten kann das Layout der Titelseite in unerwünschter Weise betroffen sein.

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}
```


Bibliography

- [1] Peter Wilson. *The Memoir Class for Configurable Typesetting. User Guide*. The Herries Press, Normandy Park, 2016.
<http://mirrors.ctan.org/macros/latex/contrib/memoir/memman.pdf>.

Verpflichtungs- und Einverständniserklärung

Ich erkläre, dass ich meine Masterarbeit 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 Masterarbeit die Universität, das/die Institut/e und der/die Arbeitsbereich/e, an dem/denen die Masterarbeit ausgearbeitet wurde, und die Betreuerin/nen bzw. der/die Betreuer zu nennen sind.

Ich nehme zur Kenntnis, dass meine Masterarbeit zur internen Dokumentation und Archivierung sowie zur Abgleichung mit der Plagiatssoftware elektronisch im Dateiformat pdf ohne Kennwortschutz bei der/dem Betreuer/in einzureichen ist, wobei auf die elektronisch archivierte Masterarbeit nur die/der Betreuerin/Betreuer der Masterarbeit und das studienrechtliche Organ Zugriff haben.

Hall in Tirol am

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