

`uiphdthesis.cls`  
An unofficial L<sup>A</sup>T<sub>E</sub>X class for University of  
Iceland Ph.D thesis

Einar Árnason  
Institute of Biology  
University of Iceland

December 16, 2014

## 1 Installation

### 1.1 `uiphdthesis.cls`

The class (`.cls`) and associated files are distributed as a `zip` archive. Perhaps the easiest way is to expand the archive and copy all files to the directory where you are working on your thesis. Alternatively you can install the class and required files in the T<sub>E</sub>X directory tree. The location will depend on your operating system and distribution. (On my Fedora the T<sub>E</sub>X tree resides in `/usr/share/texmf`).

### 1.2 Required packages

The `uiphdthesis` class requires and loads a number of L<sup>A</sup>T<sub>E</sub>X packages. If your L<sup>A</sup>T<sub>E</sub>X distribution has not installed the required packages compilation of your thesis will fail with an error message. Look for errors on the (`linux`) command line or in the `.log` file and install the missing L<sup>A</sup>T<sub>E</sub>X packages.

## 2 Usage

### 2.1 General usage

Copy the `uiphd_template.tex` file (see below) to a filename of your choice. Search the document for `XX` and replace with the required text (`XXAuthor`, `XXTitle` and so on). Pay attention that you do not delete curly braces `{` and `}`.

Do not alter the commands enclosed by percentage signs `%`, for example:

```
%%%%%%%%%%  
\makecovertitlepage
```

```

\makeinnertitlepage
\makesaurblad
%%%%%%%%%%

```

Use the commands with TRUE parameter for optional sections. If your thesis does not contain those sections comment out (using % sign at start of line) and uncomment the respective command with the FALSE parameter.

## 2.2 Compiler

The class requires you to use `pdflatex` for compiling the document and producing pdf output. Regular `latex` producing `.dvi` (device independent output) will not work.

## 2.3 Sections of thesis

Use the `\section{}` for sections (chapters) of your thesis. You can use `\subsection{}` and `\subsubsection{}` which will be entered into the Table of Contents. You can also use the `\paragraph{}` for further subdivision.

### 2.3.1 Citations

The class uses the `natbib` package for citations.

## 2.4 Typesetting tables and figures

Typesetting tables and figures is best done with the following code. The caption is above the table and below the figure. A short version of the caption is entered between the square brackets `[]` and will be printed in the List of Tables and List of Figures.

```

\begin{table}[htbp]
  \centering
  \caption[A table caption, title a sentence without verb]{A table
    caption, title a sentence without verb. This is a table. The
    caption is above the table.}\label{mytablelabel}
  \begin{tabular}{lrr}\hline
    Left& right &right\\
    Here & we &are\\\hline
  \end{tabular}
\end{table}

\begin{figure}[htbp]
  \centering
  \includegraphics[width=43mm]{HIlogo}
  \caption[A figure caption or title, a sentence without a verb]{A
    figure caption or title, a sentence without a verb. The logo of the

```

```
University of Iceland. The caption is below the
figure.}\label{myfigurelabel}
\end{figure}
```

## 2.5 Papers included in the thesis

A thesis may include papers, published, in review or unpublished. The class assumes that the papers are .pdf files. They must be inserted using the following two commands.

### 2.5.1 The `\mypaper{}{} command`

The `\mypaper{}{} command` is used for each paper within the `\thesislistofpapers{} environment`. The `\mypaper{}{} command` takes two arguments in the pair of curly braces:

1. The word `Paper` and a number with Roman numeral
2. The citation (Authors, year, title, journal, volume and page numbers) formatted as a citation

An example:

```
\mypaper{Paper I}{John Doe and Ivor Y. Tower. 2014. An investigation
into the nature of things. \emph{Journal of Irreproducible Results}
\textbf{12:} 21--32.}
```

### 2.5.2 The `\insertpdf{}{}{}{}{}{}{} command`

Use the `\insertpdf{}{}{}{}{}{}{} command` to insert each paper. The command takes 7 arguments for each of the pair of curly braces:

1. The word `Paper` along with a Roman numeral
2. The title of the paper.
3. Author(s) of the paper and year.
4. Journal title, volume (in bold `\textbf{}`), and page numbers. Use an En-dash `--` between page numbers. Also include a `doi` (digital object identifier).
5. State the copyright `©` (`\textcopyright`) holder of the printed version of the paper and indicate that a permission has been granted for reproducing the paper in the thesis.
6. A paragraph detailing the contribution of of the Ph.D. candidate to the paper.
7. the path to the .pdf file and name of file (without the .pdf ending).

An example:

```
\insertpdf{Paper I}{An investigation into the nature of things.}{John
Doe and Ivor Y. Tower. 2014.}{\emph{Journal of Irreproducible Results}
\textbf{12:} 21--32.}{Copyright \textcopyright\ by the Society for
Irreproducible Results. All rights reserved. Permission for reproduction
in this thesis granted by the copyright owner.}{John Doe actively participated
in the design of the study. John conducted all the molecular work
and data analysis. He wrote the first draft of the manuscript and
contributed to editing until publication. John Doe was the corresponding
author.}{irreproducible-paper}
```

## 2.6 The template file : uiphd\_template.tex

```
\documentclass{ui-phdthesis}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% LaTeX template for University of Iceland Ph.D. thesis
%% Author and maintainer:
%% Einar Arnason, einararn@hi.is
%% 23-10-2014 version 0.1
%% Copyright (C) 2014 Einar Arnason
%% Permission is granted to copy, distribute and/or modify this document
%% under the terms of the GNU Free Documentation License, Version 1.3
%% or any later version published by the Free Software Foundation;
%% with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
%% A copy of the license is available at http://www.gnu.org/
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% Directions for use:
%% See also README.pdf
%%
%% Search for XX in the whole document and
%% replace text within curly braces as appropriate.
%% Do not change anything other than XX fields
%% In particular do not delete or change curly braces
%% and commands enclosed with percentage signs
%%
%% Comment out (using %) or uncomment commands with
%% TRUE FALSE fields as appropriate
%% The text of the thesis comes after the \thesisbody command
%% Use \cite[] []{} for citations natbib style
%%
%% If the thesis contains published papers you have to use the
%% \thesislistofpapers environment and within that for each ppaper
%% use command \mypaper{}{} and enter the required information in
%% the curly braces:
%% \mypaper{Paper number (roman)}{Author, year, citation}
%% The template assumes that included papers are pdf documents.
```

```

%% To include a pdf file you have to use the command
%% \insertpdf{file}{-}{-}{-}{-}{-} and enter the required information
%% in the curly braces: \insertpdf{Paper number}{Paper
%% title}{Authors}{Journal, volume, page numbers}{Copyright and
%% permission}{Contribution of student}{path to pdf file}
%%
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\thesisauthor{XXAuthor}
\thesistitle{XXTitle}
\thesisshorttitle{XXShortTitle}
\thesismonth{XXMonth}
\thesisyear{20XX}
\thesisdegree{Philosophiae Doctor}
\thesisfield{XXField}
\thesischool{School of Engineering and Natural Sciences}
\thesisfaculty{XXFaculty}
\thesisaddress{XXFacultyAddress}
\thesispostalcode{XXPostalCode}
\thesistelephone{525-4000}
\thesisprinter{XXPrinter}
\thesisadvisor{XXNN1}
\thesiscommittee{XXNN2\ \ XXNN3\ \ XXNN4}
\thesisopponents{XXNN5\ \ XXNN6}
\thesiskeywords{XXKeyword1, XXKeyword2, XXKeyword3, XXKeyword4, XXKeyword5}
\thesisISBN{XXISBN}
\begin{document}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\makecovertitlepage
\makeinnertitlepage
\makesaurblad
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\thesisabstract{XXAbstracttext The Abstract text goes here between the
  curly braces.
}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\thesisutdrattur{XXUtdratturtext Hér kemur íslenskur útdráttur
  ritgerðar. Setjið textann á milli slaufusviganna. This is the
  Icelandic version of the abstract. Put the text between the curly
  braces.
}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\thesisdedication{TRUE}{XXDedication If there is a dedication it goes
  in here between the curly braces.
}
%\thesisdedication{FALSE}{}

```

```

%%%%%%%%%%
\thesispreface{TRUE}{XXPreface If there is a Preface to the thesis it
  goes in here between the curly braces.
}
%\thesispreface{FALSE}{}
%%%%%%%%%%
\thesislists
%%%%%%%%%%
%%% Use \thesislistofpapers if your paper has copies of published
%%% papers. Use \mypaper{}{} to list reference to papers
%%%%%%%%%%
\thesislistofpapers{TRUE}{%
%
  \mypaper{} {}
%
}
%\thesislistofpapers{FALSE}{}
%%%%%%%%%%
\thesisabbreviations{TRUE}{XXAbbreviations.

```

In this Chapter can be lists of abbreviations and/or variable names. Give the Chapter a title that is appropriate for the contents, e.g. Abbreviations, Glossary, List of Variables. This Chapter can be removed if it is not needed.

This Chapter contains acknowledgements to those that have supported the research financially, with facilities, or labor. For example, research funds, companies, advisors, thesis committee members, and others that have in any way assisted with the project, including family and friends if appropriate.

```

}% do not remove this curly brace
%\thesisabbreviations{FALSE}{}
%%%%%%%%%%
\thesisacknowledgments{TRUE}{XXAcknowledgments. This Chapter contains
  acknowledgements to those that have supported the research
  financially, with facilities, or labor. For example, research funds,
  companies, advisors, thesis committee members, and others that have
  in any way assisted with the project, including family and friends
  if appropriate.
}
%\thesisacknowledgments{FALSE}{}
%%%%%%%%%%
\thesisbody
%%%%%%%%%%
\section{XXsection}
\subsection{XXsubsection}

```

```

\subsubsection{XXsubsubsection}

% \begin{table}[htbp]
% \centering
% \caption[A table caption, title a sentence without verb]{A table
% caption, title a sentence without verb. This is a table. The
% caption is above the table.}\label{mytablelabel}
% \begin{tabular}{lrr}\hline
% Left& right &right\\
% Here & we &are\\\hline
% \end{tabular}
% \end{table}

% \begin{figure}[htbp]
% \centering
% \includegraphics[width=43mm]{HIlogo}
% \caption[A figure caption or title, a sentence without a verb]{A
% figure caption or title, a sentence without a verb. The logo of the
% University of Iceland. The caption is below the
% figure.}\label{myfigurelabel}
% \end{figure}

%
%
% \insertpdf{ }{ }{ }{ }{ }{ }{ }
%
% \insertpdf{Paper Roman Number}{Paper title}{Authors}{Journal,
% volume, page numbers}{Copyright and permission}{Contribution of
% student}{path/filename}
%
%
% \bibliography{XX}
% Appendix can come here
% \section{Appendix AXX}
\end{document}

%%% Local Variables:
%%% mode: latex
%%% TeX-master: t
%%% End:

```