

# Using the Ph.D. Thesis L<sup>A</sup>T<sub>E</sub>X Class, release 1.13

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This document goes through all the parameters that describe the cover a former LUNAM–future UBL Ph.D. thesis.

## 1 Class Parameters

```
\documentclass[12pt,  
             french,  
             fancyChapter,  
             fancyPart,  
             squeezeCommittee,  
             greyHeadings]{these-LUNAM-UBL}
```

**Font Size** 10pt, 11pt, 12pt

Based on the “book” class, available font sizes are the same. Since 12pt is the easier to read, it has been chosen as the default value.

**Writing Language** french, english

French and English languages have been preloaded (through the “babel” package, hence it has been pre-loaded by the class.).

By default, “french” is the main language.

**Defence Committee Display** squeezeCommittee

Using this option avoids inserting blank lines between categories of people in the committee (extended) list. It should become useful only with a very large committee along with important persons unable to attend the Ph.D. defence. The worst case that could occur would be to have 8 examiners and 2 guests in the defence committee, plus 2 reviewers, 2 directors, and 2 co-directors (in case of co-supervision), none of them being there on the day of the Ph.D. defence, i.e. a list of 16 names on the cover! In such a case, an overflow of the cover is to be expected.

**Nota.** Caution, this option does not work anymore like versions 1.0 to 1.6 of the class. Previously, it controlled the horizontal alignment, something that is now dealt with automatically.

**Customisation** fancyChapter & fancyPart

This parameters modify respectively chapter and part heads in a way closely related to the cover look. Remove it if you prefer the classical chapter or part heads, or want to customise it differently.

**Coloured Cover** greyCover

Uses grey levels in place of colours (including logos), which can produce better printing results on some printers (as well as reducing the cost).

Then you probably want to remove color links in the “hyperref” package below!

**Coloured Headings** greyHeadings

This parameter is implied by the previous one, i.e., with a grey cover, headings will also be turned grey.

However, it is possible to turn only the headings to grey levels, in order to save some colour when printing.

## 2 Packages

### 2.1 Characters Encoding

```
\usepackage[latin1]{inputenc}
```

Change the text encoding depending on your writing environment (Windows, Mac...): latin1, latin9, utf8, etc. Texts generated by the L<sup>A</sup>T<sub>E</sub>X class should work with any of them...

```
\usepackage[T1]{fontenc}
```

```
\usepackage{textcomp}
```

For a better rendering of some characters, e.g., °, « » for French guillemets.

```
\geometry{inner=2.5cm, outer=2.5cm, top=2.5cm, bottom=2cm}
```

```
\geometry{inner=1.5cm, outer=1.5cm, top=2cm, bottom=2cm}
```

The “geometry” package has already been loaded by the class with default values for A4 paper; they can be modified here.

**Note.** Version 5 is required, hence it is provided along this class, for some distributions do not yet include it.

```
\usepackage{times} % times, palatino, charter, lmodern, etc.
```

This font is used for the contents of the thesis, but not for the first and last cover pages that rely on “times,” which has been pre-loaded by the class.

```
\RequirePackage[bookmarks,
    colorlinks=false, % probably colorlinks=false if you have chosen the
    urlcolor=blue,
    citecolor=blue,
    linkcolor=blue,
    hyperfigures,
    pagebackref,
    pdfcreator=LaTeX,
    breaklinks=true,
    pdfpagelayout=SinglePage,
    bookmarksopen=true,
    bookmarksopenlevel=2]{hyperref}
```

### 2.2 Pre-loaded Packages

In addition to “babel,” “geometry,” and “times,” some other packages have been pre-loaded by the class, hence need not be included again here: “amsmath,” “xcolor,” “graphicx,” “ifthen,” and “setspace.”

### 2.3 Known Incompatibilities

The “float” package may create an extra white page after the last cover page... at least with the TexLive distribution. Use a PDF tool to remove it, e.g., *pdfseparate*.

## 3 Cover Parameters

### 3.1 Title(s)

```
\titre{Influence des altérations de surface naturelle sur...}
```

French title is mandatory.

```
% \soustitre{Application à la cartographie de l’ophiolite d’Oman et...}
```

A French subtitle is optional.

```
\title{Influence of Surface Alterations on the Recognition of...}
```

The English title is also mandatory.

It is used on the back cover page along with the abstract and the key words but also on the title page should the thesis be written in English.

```
% \subtitle{Application to the Cartography of the Oman’s Ophiolite and...}
```

Should be present if one has been provided in French.

### 3.2 Author

```
\author{M.}{Jean}{Duteil de la Jouscelinière}
```

The last name, third argument, is automatically set in small capitals font, in order to avoid a confusion with the first name. Therefore, you do not need to use capital letters.

Accents must be used.

Your own name must appear before any other given name (e.g., name of the husband for a married woman) without further indication such as “born,” “said,” “spouse”.. This is French legal matter (See Code civil, Instruction générale du 29 mars 2002 relative to the “*état civil*”). But, well, this legal rule may suffer quite a number of exceptions with respect to cultural considerations...

**Nota.** In case the name does not fit into a single line due to only one or two characters, you can use L<sup>A</sup>T<sub>E</sub>X fine positioning commands in front of the first name, as exemplified here:

```
\author{M.}{\hspace{-1.85em}Céline}{Sarazin-Desbois}
```

### 3.3 Discipline(s), section(s) et specialty(ies)

```
\discipline{Informatique et applications}
```

You must use the discipline you provided during your registration. It is the official national classification. It is available on the web site of the Doctoral School.

```
% \sectionCNU{27}
```

Provide the CNU section to which this thesis belongs (possibly more than one, e.g., {27, 61}). This is optional; just comment out the command.

```
% \specialty{Informatique}
```

This is optional. In case it exists, it has been (should have been) defined by the laboratories and the doctoral school in an exhaustive list.

### 3.4 Institution(s)

```
\institution{UN} % - UN, UA, UM, ECN, MN (formerly EMN), Oniris, Agro  
% \coinstitution[10pt]{École nationale supérieure d'architecture de Nantes}  
% {EnsaNantes}{2.4cm}
```

Some thesis are delivered on behalf of a joint organism, as exemplified by ENSA Nantes. See below for the explanations related to the format of the command.

```
% \cosupervisingforeigninstitution[10pt]{la Universidad de los Andes}  
% {andes}{3.2cm}
```

In case of co-supervision with a foreign university, its logo can/must be provided. More precisely, we have three mandatory parameters:

- Firstly, the name of the university, that will appear after the title of “Docteur de ...”  
It must contain the definite article.  
It must avoid unnecessary capital letters (only the first one according to French typographic rules, except if there is a proper noun, of course).
- Next, the name of the graphics file containing its logo.  
It must be located in the “logos” sub-directory.  
A vectorial format is preferable. At the very least, provide an image with a transparency channel (png rather than jpeg) to avoid a white background.  
Note that if the option *greyCover* has been selected, then the file name that will be searched will be one with a “-gris” suffix.
- Then, the width of the logo on the page, to adjust progressively in order to give it the same visual importance as the one of the institution (no more, no less).

Besides, an optional parameter is also available, equal to 0pt by default, in order to adjust the vertical alignment of the logo. The additional logo appears to the left of the one from the Comue UBL. (This can be misused in order to provide an associated logo on some theses...)

```
% \thesisnumber{}
```

Each institution has its own policy on the attribution of a thesis number. Furthermore, this is optional. Leave it empty (or comment it out) in order to remove it from the cover.

### 3.5 Doctoral School

```
\doctoralschool{Sciences et technologies de l'information, et mathématiques}
```

### 3.6 European Label

```
% \europeanlabel
```

Uncomment the previous command if the thesis obtained the European label, i.e., satisfied the four requirements that follow:

1. The doctorate has been prepared for at least one trimester in a European country other than the country of defence.
2. At least two reviewers are affiliated to two universities or higher education institutions from European countries other than the country of defence.

3. At least one of the members of the defence committee (excluding guests) must belong to a higher education institution from European countries other than the country of defence.
4. Part of the defence must be conducted in a European language other than (one of) the national language(s) of the country where the defence takes place. This is to be explicitly written down by the defence committee in the post-defence report.

Caution, this label is given independently by each university and, may be, higher schools. Ask for its possible attribution in advance.

### 3.7 Laboratory

```
\laboratory{Laboratoire d'informatique de Nantes-Atlantique (LINA)}
           %\École polytechnique de l'université de Nantes
           % (Polytech Nantes,
           % membre du réseau Polytech des écoles d'ingénieurs polytechniques unive
```

It is possible to extent the laboratory affiliation with the School, Institute, Centre, etc., to which the laboratory belongs. Introduce a ligne skip (\\) between them.

### 3.8 Date

```
\date{23 janvier 2014}
```

### 3.9 Defense Committee

#### 3.9.1 Reviewers

```
\reviewer{M.} % Title
           {Philippe} % First name
           {Lagacherie} % Last name
           {Ingénieur de recherche} % Grade
           {INRA de Montpellier} % Institution
\reviewer*{M.}{Michel}{Baslerosko}
           {Professeur des universités}{Université de Limoges}
```

At least two, at most three reviewers.

The title is either “M.” pour “Monsieur” or “Mme” pour “Madame.”

An Associate professor in particular, and more generally any kind of people, has to be an HDR. If this is not implied by the grade (Professor and equivalences), the prefix “, HDR” has to be explicitated written after the grade. This does not apply to foreign reviewers (unless they obtained a French HDR of course).

In rare cases, one or even several external reviewer(s) could not be part of the committee on the day of the thesis defence. Then use the starred version of the command. They will appear in a separate liste, under three stars.

#### 3.9.2 Examiners

```
\examiner{M.}{Vincent}{Launeau}
           {Professeur}{Université de Lyon}
\examiner{Mme}{Martine}{Lani-Bayle}{Maître de conférences}
           {École nationale des Ponts et Chaussées, Marne-la-Vallée}
\examiner{M.}{Patrick}{Ledru}{Ingénieur-chercheur sénior}
           {Universidad del Pa\`is Vasco, Bilbao, Espagne}
```

They can be optional (contradicting the next clause!), or conversely up to height... in strange cases!

The command obeys the same rules as for reviewers.

`\president{Civilité}{Prénom}{Nom}{Titre}{Établissement}`

This information is initially unknown, hence optional. On the day of the thesis defence, one of the examiners is to be chosen as the president. Reviewers, supervisors, and guests are not eligible. Therefore, it is necessary to change one of the `\examiner` command for `\president` before editing the final version of the thesis (See above). The president is generally the defence reviewer as well, though it is possible to choose someone else for that task! We do not deal with that extreme case in this class.

### 3.9.3 Guests

`% \guest{Title}{First Name}{Last Name}{Grade}{Institution}`  
`% \guest{Title}{First Name}{Last Name}{Grade}{Institution}`

Guests are optional and at most two (See module JURY of LUNAM DOCTEUR).

The members of the Ph.D. Committee who do not own themselves a Ph.D. have to be registered as guests. To do otherwise requires the approval of the Scientific Committee of the delivering institution.

### 3.9.4 Ph.D. Director(s)

`% \supervisor{Title}{First Name}{Last Name}{Grade}{Institution}`  
`% \supervisor*{Title}{First Name}{Last Name}{Grade}{Institution}`

There is only one Ph.D. director.

In rare cases, the Ph.D. Director could not be part of the committee on the day of the thesis defence. Then use the starred version of the command.

`% \foreignsupervisor{Title}{First Name}{Last Name}{Grade}{Institution}`  
`% \foreignsupervisor*{Title}{First Name}{Last Name}{Grade}{Institution}`

However, there can also be a (single) foreign supervisor, in which case the co-institution must exist.

In rare cases, the foreign Ph.D. Director from the foreign co-institution could not be part of the committee on the day of the thesis defense. Then use the starred version of the command.

`% \cosupervisor{Title}{First Name}{Last Name}{Grade}{Institution}`  
`% \cosupervisor*{Title}{First Name}{Last Name}{Grade}{Institution}`

Besides, you can have a co-supervisor (optional, at most one). He must own an HDR.

In rare cases, the accompanying Ph.D. Director could not be part of the committee on the day of the thesis defence. Then use the starred version of the command.

`% \foreigncosupervisor{Title}{First Name}{Last Name}{Grade}{Institution}`  
`% \foreigncosupervisor*{Title}{First Name}{Last Name}{Grade}{Institution}`

The same happens to a possible foreign co-supervisor.

### 3.9.5 Other Advisers

Notice that additional scientific advisers (not the supervisor(s) and possible co-supervisor(s)) *are not highlighted*. No such thing as “*co-encadrant*”! Most often, they are examiners, in rare cases they are only guests (for fulfilling some rules on the structure of a defence committee). Notice that they can never be co-supervisors (needs an HDR and at most one).

## 4 Back Cover

### 4.1 Abstract

```
\begin{resume}  
  \footnotesize  
  %\scriptsize  
  TEXTE  
\end{resume}
```

```
\begin{abstract}  
  \footnotesize  
  %\scriptsize  
  TEXT  
\end{abstract}
```

The abstract must be provided both in French and English.

The abstracts must be short enough in order to fit on the last page of the cover, on a single (half) column, along with the keywords. It is possible to reduce the size of the font in case of overflow thanks to the `\footnotesize`, or even `\scriptsize`, commands (`\small` is the default). However, it cannot be longer than 1,700 characters, including spaces.

Notice that inside the abstracts, the text is only aligned on the left, it is not justified. Effectively, with thin columns, it is better to avoid justification that can lead to large spacing between words on some lines.

### 4.2 Key Words

```
\begin{motscles}  
  ---, ---, ---, ---.  
\end{motscles}  
  
\begin{keywords}  
  ---, ---, ---, ---.  
\end{keywords}
```

## 5 Others

```
% \onehalfspacing
```

The package “setspace” has been loaded by the class “these-LUNAM-UBL.” So, it is possible to change the spacing between lines in the document. Note that the cover has been protected against this modification.

```
% \frontmatter
```

DO NOT USE IT! Numbering has to be continuous from the very first to the last page.