

Imperial College London Dissertation Template

The `icldt` class*

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1 Introduction

The provided documentclass `icldt` is based on the class `scrreprt` from the `koma-script` package. It uses the packages `geometry` and `setspace` to fulfill the requirements for dissertations of the University of London and of Imperial College London as cited in Section 3.

2 Usage

The College regulation for dissertation leave some choices up to you. Most of these choices are available as documentclass options.

`onehalfspacing` You can choose between one-and-a-half or double linespacing with the option
`doublespacing` `onehalfspacing` respectively `doublespacing`. One-and-a-half linespacing is default.

`imperial` You can specify if you are submitting for a University of London or an Imperial
`university` College London degree with the option `university` respectively `imperial`. Use `imperial` if you are enrolled for an Imperial College London degree, but not for an University of London degree. Use `university` if you are enrolled for an University of London degree, which is possible at Imperial College only if you started studying before 2007. Default is `imperial`.

`titlepagenumber=on` The College requirements say that every page *including the titlepage* has to
`titlepagenumber=off` be paginated with the arabic pagenumber. Many people believe a pagenumber on the titlepage looks horrible. Therefore you can choose to violate this requirement and switch the pagenumber on the titlepage off with the option

*This document corresponds to `icldt` v2.0, dated 2011/01/29.

`titlepagenumber=off`. By default the template sticks strictly to the requirements and uses `titlepagenumber=on` as default.

`paper=a4` All other options are passed on to the underlying documentclass `scrreprt`. This is how the paper format is set to A4 with a single-sided layout by default. Imperial College London degrees allow double-sided layout for thesis with more than 100 pages. Use option `twoside` to switch to a double-sided layout.

`11pt` The College does not impose any restrictions on the fontsize. By default the fontsize is set to 11pt which seems to be reasonable with regard to the paper format and margins.

2.1 Titlepage

The titlepage includes all required information (see Section 3). The titlepage can be adapted to degrees of “University of London, Imperial College” and to degrees of “Imperial College London” by using the class option `university` and `imperial` respectively. To obtain a University of London degree at Imperial College is only possible if you started studying before 2007. Therefore the option `imperial` is chosen by default. The titlepage is placed in the document with `\maketitle`.

`\maketitle`

`\college` If you are from another college, e. g. within the University of London, you can redefine the college’s name with `\college{name}`. By default the college is Imperial College London.

`\department` You have to specify your department with `\department{name}`. The department’s name is printed on the titlepage. It is also used for the name of your degree. So if you study in the department of Computing it is assumed that you will get a degree in Computing. If this is not the case or if you are an external student who is not part of any department please use `\field{field of studies}` to declare the field of studies in which you will get your degree.

`\field`

`PhD` You can choose the name of your degree which is printed on the titlepage by selecting one of the documentclass options `PhD`, `MSc`, `BSc`. The Diploma of Imperial College (DIC) is automatically added when you choose the option `PhD`. The `PhD` option is selected by default.

`MSc`

`BSc`

`DIC=on` If you obtain a PhD without the Diploma of Imperial College use the option `DIC=off`. To add the Diploma to any of the other degrees – check with the College’s administration if this is possible – use the option `DIC=on`.

`DIC=off`

`\supervisor` The regulations do not require to mention your supervisor on the titlepage. If you want to do so anyway define her name with `\supervisor{name}`.

2.2 Declaration

Although it is not mentioned in the College’s regulation, some departments might require a signed declaration at the beginning of the thesis, which states that the

thesis is original work, etc. In doubt please confirm with your supervisor or the PhD administrator in your department whether you need the declaration or not.

`declaration=on` You can switch the declaration on with then documentclass option `declaration=on`.
`declaration=off` By default it is switched off, i.e. `declaration=off`. The titlepage is followed by a declaration that the dissertation is your original work and all cited material has been properly acknowledged. The declaration reads:

I herewith certify that all material in this dissertation which is not my own work has been properly acknowledged.

This declaration is followed by your name as defined by `\author{name}`. That is where you need to sign before you hand in your dissertation.

`\declaration` If you want to change the text of the declaration use `\declaration{new text}`.

2.3 Abstract

`abstract` Use the `abstract` environment to write the abstract of your dissertation. It should follow directly after the `\maketitle` command.

Your abstract is not allowed to exceed 300 words.

2.4 Dedication

`\dedication` The regulations do neither require nor forbid a dedication of your dissertation to somebody or something. If you want to include a dedication define its text with `\dedication{text}` which is provided by the `koma-script` class. To place it in the document use `\makededication`. The right place for the dedication would be between the abstract and the table of contents.

2.5 Table of Contents

The College regulations say that “the abstract should be followed by a full table of contents (including any material not bound in) and a list of tables, photographs and any other materials.”

You can create the table of contents and the lists with the standard `LATEX` commands `\tableofcontents`, `\listoffigures` and `\listoftables`.

3 Regulations for Dissertations

This section is an excerpt from the regulations for dissertations of the University of London and of Imperial College London. It cites all requirements which have direct impact on the document layout. The full text of the requirements can be found online:

- Imperial College London:
<http://www3.imperial.ac.uk/pls/portallive/docs/1/48333706.PDF>
- University of London:
http://www.london.ac.uk/fileadmin/documents/students/postgraduate/binding_notes.pdf

Paper

A4 size paper (210 x 297 mm) should be used. Plain white paper must be used, of good quality and of sufficient opacity for normal reading. For a university of London degree only one side of the paper may be used. For Imperial College London degrees “pages may be printed double-sided for theses over 100 pages”.

Layout

University of London: Margins at the binding edge must be not less than 40 mm (1.5 inches) and other margins not less than 20 mm (0.75 inches).

Imperial College London: Page content should be centred, so that margins are equal distant from the edge of pages/binding.

Double or one-and-a-half spacing should be used in typescripts, except for indented quotations or footnotes where single spacing may be used.

Pagination

All pages must be numbered in one continuous sequence, i. e. from the title page of the first volume to the last page of type, in Arabic numerals from 1 onwards. This sequence must include everything bound in the volume, including maps, diagrams, blank pages, etc. Any material which cannot be bound in with the text must be placed in a pocket inside or attached to the back cover or in a rigid container similar in format to the bound thesis.

Title Page

The title page must bear the officially-approved title of the thesis, the candidate’s full name as registered, the name of the College/Institute at which the candidate was registered (except for External Students) and the degree for which it is submitted.

Abstract

The title-page should be followed by an abstract consisting of no more than 300 words.

Table of Contents

In each copy of the thesis the abstract should be followed by a full table of contents (including any material not bound in) and a list of tables, photographs and any other materials.

4 Copyright & License

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5 Implementation

These macros store the required information.

```
1 \newcommand*\@supervisor{}
2 \newcommand*\@university{}
3 \newcommand*\@college{Imperial College London}
4 \newcommand*\@department{}
5 \newcommand*\@field{}
6 \newcommand*\@degree{}
7 \newcommand*\@diploma{}
8 \newcommand*\@declaration{}

```

The options for the documentclass are declared. This will redefine the information in the macros defined above if necessary.

```

9 \DeclareOption{university}{%
10 \renewcommand{\@university}{University of London}}
11 \DeclareOption{imperial}{%
12 \let\@university\empty}
13 \DeclareOption{PhD}{%
14 \renewcommand{\@degree}{Doctor of Philosophy}
15 \renewcommand{\@diploma}{Diploma of Imperial College London}}
16 \DeclareOption{MSc}{%
17 \renewcommand{\@degree}{Master of Science}\let\@diploma\empty}
18 \DeclareOption{BSc}{%
19 \renewcommand{\@degree}{Bachelor of Science}\let\@diploma\empty}
20 \DeclareOption{DIC=off}{%
21 \let\@diploma\empty}
22 \DeclareOption{DIC=on}{%
23 \renewcommand{\@diploma}{Diploma of Imperial College London}}
24 \DeclareOption{declaration=off}{%
25 \let\@declaration\empty}
26 \DeclareOption{declaration=on}{%
27 \renewcommand{\@declaration}{%
28 I herewith certify that all material in this dissertation which
29 is not my own work has been properly acknowledged.}}

```

These options offer (limited) choices for the layout.

```

30 \DeclareOption{doublespacing}{\AtBeginDocument{\doublespacing}}
31 \DeclareOption{onehalfspacing}{\AtBeginDocument{onehalfspacing}}
32 \DeclareOption{titlepagenumber=off}{%
33 \AtEndOfClass{\renewcommand{\titlepagestyle}{empty}}}
34 \DeclareOption{titlepagenumber=on}{%
35 \AtEndOfClass{\renewcommand{\titlepagestyle}{plain}}}
36 \DeclareOption{paper=a4}{\PassOptionsToClass{\CurrentOption}{scrreprt}}
37 \DeclareOption{11pt}{\PassOptionsToClass{\CurrentOption}{scrreprt}}
38 \DeclareOption{oneside}{\PassOptionsToClass{\CurrentOption}{scrreprt}}

```

All other options are handled by the underlying documentclass `scrreprt` from the `koma-script` package.

```

39 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{scrreprt}}

```

The default options are defined and executed.

```

40 \ExecuteOptions{onehalfspacing,titlepagenumber=on,imperial,PhD,
41 declaration=off,paper=a4,pagesize=auto,11pt,oneside}
42 \ProcessOptions\relax

```

The whole document class builds on `scrreprt` from the `koma-script` package.

```

43 \LoadClass[pagesize=auto]{scrreprt}

```

The linespacing is controlled by the package `setspace`

```

44 \RequirePackage{setspace}

```

The page layout is set with the geometry package.

```
45 \RequirePackage[left=4.2cm,right=4.2cm,top=2.97cm,bottom=5.94cm]%  
46 {geometry}
```

`\supervisor` Defines the name(s) of the supervisor(s).

```
47 \newcommand*\supervisor[1]{\gdef\@supervisor{#1}}
```

`\college` Defines the name of the college.

```
48 \newcommand*\college[1]{\gdef\@college{#1}}
```

`\department` Defines the name of the department.

```
49 \newcommand*\department[1]{\gdef\@department{#1}}
```

`\field` Defines the name of your field of studies.

```
50 \newcommand*\field[1]{\gdef\@field{#1}}
```

`\declaration` Redefines the declaration text.

```
51 \newcommand*\declaration[1]{\gdef\@declaration{#1}}
```

The font for title and headlines is changed from sans-serif, which is default in koma-script, to the serif font.

```
52 \setkomafont{sectioning}{\rmfamily\bfseries}
```

The titlepage is typeset including all information required by the University of London and Imperial College London.

```
53 \renewcommand*\maketitle{  
54 \begin{titlepage}  
55 \par  
56 \clearpage  
57 \thispagestyle{\titlepagestyle}  
58 \noindent\begin{minipage}[t]{\textwidth}  
59 \centering\large  
60 \ifx\@university\@empty \else \@university\par\fi  
61 \@college  
62 \ifx\@department\@empty \else \par Department of \@department\fi  
63 \end{minipage}  
64 \null\vfill  
65 \begin{center}  
66 {\titlefont\huge \@title\par}  
67 \vskip 3em  
68 {\Large \lineskip 0.75em
```

```

69 \begin{tabular}[t]{c}
70 \@author
71 \end{tabular}\par
72 \vskip 1.5em
73 {\Large \@date \par}
74 \vskip \z@ \@plus3fill
75 \ifx\@supervisor\@empty \else
76 {\Large Supervised by \@supervisor \par}
77 \fi
78 \vskip 3em
79 \end{center}\par
80 \noindent\begin{minipage}[b]{\textwidth}
81 \centering
82 Submitted in part fulfilment of the requirements for the degree of\@
83 \@degree\ in \ifx\empty\@field{\@department}\else{\@field}\fi of
84 \ifx\empty\@university{\@college}\else{the \@university}\fi
85 \ifx\@diploma\@empty\else{\and the \@diploma}\fi
86 \end{minipage}

```

If the declaration option is switched on, the titlepage is followed by the declaration that the dissertation is original work of its author.

```

87 \ifx\@declaration\@empty\else{
88 \cleardoublepage
89 \chapter*{Declaration}
90 \thispagestyle{plain}
91 \@declaration
92 \par\vspace{3cm}
93 \hfill\@author
94 \cleardoublepage
95 }\fi
96 \end{titlepage}
97 }

```

The dedication – which is not mentioned in the requirements for dissertations of the University of London and Imperial College London – is typeset on its own plain page.

```

98 \newcommand{\makededication}{
99 \ifx\@dedication\@empty \else
100 \clearpage
101 \thispagestyle{plain}
102 \null\vfill
103 {\centering \Large \@dedication \par}
104 \vskip \z@ \@plus3fill
105 \cleardoublepage
106 \fi
107 }

```

abstract The abstract is implemented as a section without numbering on its own plain

page.

```
108 \renewenvironment{abstract}{%  
109 \chapter*{Abstract}\thispagestyle{plain}}{\cleardoublepage}
```