

# The `kdgcoursetext` class\*

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## 1 Introduction

As of 2010, The Karel de Grote University College has adopted a new house style. This package implements the house style for course texts and master's theses. Using these class files will make it easy for you to make and keep your course texts and master's theses compliant to this version and future versions of the KdG house style.

If you think

- there's an error in compliancy w.r.t. the house style,
- there's a feature missing in this class file,
- there's a bug in this class file,

please, contact us through e-mail ([walter.daems@kdg.be](mailto:walter.daems@kdg.be)). We'll provide you with an answer and if (and as soon as) possible with a solution to the problem you spotted.

Do you like these class files? You're welcome to send us beer, wine, or just kind words.

## 2 Synopsis

The `kdgcoursetext` and `kdgmasterthesis` classes are an extension to the standard `LATEX` `book` class. It is intended to be used for writing course texts and master's theses. It provides a title page that is compliant to the KdG house style, and it also typesets the rest of your document appropriately.

---

\*This document corresponds to `kdgcoursetext` ?, dated ?.

It requires (and uses) the following packages:

- the `geometry` package
- the `hyperref` package
- the `fontspec` package (if you are using XeTeX)
- the `winfonts` or `verdana` package (if you are not using XeTeX)
- the `cmbright` package
- the `graphicx` package
- the `eso-pic` package
- the `color` package
- the `tikz` package
- the `fancyhdr` package

so make sure these packages are available to your L<sup>A</sup>T<sub>E</sub>X compiler.

Note: the class supports stuff that deviates from good practice. E.g., the class also support two-sided course material, while our students have indicated that they prefer one-sided course material.

### 3 Portability

This class file should be ready to use with all common L<sup>A</sup>T<sub>E</sub>X compilers (PDFL<sup>A</sup>T<sub>E</sub>X, L<sup>A</sup>T<sub>E</sub>X, XeL<sup>A</sup>T<sub>E</sub>X, ...) from the major T<sub>E</sub>X-distributions (TeX, TeXLive, MikTeX). If you experience problems, please inform the authors.

## 4 Usage

### 4.1 Basic Usage

#### 4.1.1 `kdgcoursetext` class

Use the following harness for your L<sup>A</sup>T<sub>E</sub>X course text:

```
\documentclass[a4paper]{kdgcoursetext}

\usepackage{<include any packages you require here>}
```

```

\department{Industri\"ele Wetenschappen en Technologie}
\departmentacronym{IWT}

\title{<put your title here>}
\subtitle{<put your subtitle here>}
\author{<put your name here>}

\courseversion{<put a version identifier here>}
\versionyear{<the publication date of the course here>}
\versioncomment{<some text clarifying the particulars of this version>}

\professor{<professor teaching the course>}
\programme{<descriptor of first programme>}
\coursecode{<first course code>}%

\academicyear{<XXXX-YYYY>}

\titlepagepicture{coolphoto.jpg}

\begin{document}
  \maketitle

  % put your LaTeX code here

\end{document}

```

#### 4.1.2 kdgmasterthesis class

Use the following harness for your L<sup>A</sup>T<sub>E</sub>X master's thesis:

```

\documentclass[a4paper]{kdgmasterthesis}

\usepackage{<include any packages you require here>}

\department{Industri\"ele Wetenschappen en Technologie}
\departmentacronym{IWT}

\title{<put your title here>}
\author{<put your name here>}
\promoteri{<put the first promoter's name(s) here>}
\promoterii{<put the first promoter's name(s) here>}
\promoteriii{<put the first promoter's name(s) here>}
\promoteriv{<put the first promoter's name(s) here>}

% classmarker
\academicyear{<XXXX-YYYY>}

\begin{document}

```

```

\maketitle

% put your LaTeX code here

\end{document}

```

## 4.2 The macros explained

After every macro, it has been indicated to which class the macro applies (between square brackets), and whether it is mandatory or not.

<code>\department</code>	[kdgcoursetext / kdgmasterthesis] (optional) This macro sets the department name. It defaults to 'Industriële Wetenschappen en Technologie'.
<code>\departmentacronym</code>	[kdgcoursetext / kdgmasterthesis] (optional) This macro sets the acronym of the department. It defaults to 'IWT'.
<code>\title</code>	[kdgcoursetext / kdgmasterthesis] (mandatory) This macro sets the title of the document. It also sets the <code>pdftitle</code> tag of the hyperref package, so that the PDF-document meta-information is correct.
<code>\subtitle</code>	[kdgcoursetext] (optional) This macro sets the title of the document. You may use this

- to further clarify the title
- to indicate the nature of this document

The latter is to be considered when you want to provide multiple documents as parts of the full course text (e.g., Course Notes, Formula Collection, Exercise Book, Solution Book). This macro also sets the `subject` tag of the hyperref package, so that the PDF-document meta-information is correct.

<code>\author</code>	[kdgcoursetext / kdgmasterthesis] (mandatory) This macro sets the author of the document. It also sets the <code>pdfauthor</code> tag of the hyperref package, so that the PDF-document meta-information is correct.
<code>\courseversion</code>	[kdgcoursetext] (optional) This macro indicates which version of the course this is. You may use your own versioning system that puts things clear for you.
<code>\versionyear</code>	[kdgcoursetext] (mandatory) This is to be the year in which you published the current version of the course in the form YYYY.
<code>\versioncomment</code>	[kdgcoursetext] (optional) This (optional) macro is to be used if you want to mention some relevant information regarding this version. E.g., if this version only differs slightly from the previous one (spelling corrections and the addition of a few examples), you may indicate this to make sure that people who have to retake your course aren't bying a new version.

`\professor` [kdgcoursetext] (mandatory) This is the name of the person that actually teaches the course (in Dutch: titularis). If there are multiple persons, please, use the macros `\professori`, `\professorii`, `\professoriii`, `\professoriv`. If you are more than four, teaching the course, ask your boss to reassign you to a different course.

`\promoter` [kdgmasterthesis] (mandatory) This is the name of the person that promotes the thesis. If there are multiple persons, please, use the macros `\promoteri`, `\promoterii`, `\promoteriii`, `\promoteriv`. If there are more than four, ask the dean to give you a new thesis subject. Upon reassignment, repeat the last sentence.

`\programme` [kdgcoursetext] (mandatory) Code of the subject you are teaching. This should be of the form:  
KdG-IWT-ZZ-VV-XXYY-ABC with:

Code	Explanation
KdG	To be kept verbatim
IWT	Replace by the three-character acronym of your department
ZZ	Either 'PB', 'AB' or 'MA', depending on whether this is a course for professional bachelors, academic bachelors or masters.
VV	Designator for the programme this course is a part of (e.g., ATF, AU, BCH, BL, BLC, C, CH, EI, EM, MCT)
XXYY	Designator for the academic year this course is used in. The year 2010-2011 is abbreviated as 1011.
ABC	The number of the course (A indicates the year, BC is just a number); the correct number can be found in the study guide.

`\academicyear` [kdgcoursetext / kdgmasterthesis] (mandatory) Use this macro to specify the academic year in full, i.e. in the form XXXX-YYYY.

`\diploma` [kdgmasterthesis] (mandatory) Code of the diploma you are pursuing. This is one of the following acronyms:

- BCH: Biochemie
- CH: Chemie
- EI-AE: Elektronica-ICT, afstudeerrichting Automotive Engineering
- EI-ICT: Elektronica-ICT, afstudeerrichting ICT
- EM-AE: Elektromechanica, afstudeerrichting Automotive Engineering
- EM-AU: Elektromechanica, afstudeerrichting Automatisering
- EM-EM: Elektromechanica, afstudeerrichting Elektromechanica

<code>\defensedate</code>	[kdgmasterthesis] (mandatory) Date of the defense in Dutch, in the form 'month year', e.g. "juni 2012".
<code>\defenselocation</code>	[kdgmasterthesis] (optional) Location of the defense. Defaults to "Hoboken".
<code>\titlepagepicture</code>	[kdgcoursetext] (optional) Specify the filename of a picture you want to appear on your titlepage. The picture should display itself nice in the size 13,99cm × 9cm.
<code>\copyrightnotices</code>	[kdgcoursetext] (optional) Use this macro to specify additional copyright notice messages to appear in het copyright notice on the bottom of page 2 of your course text.

## 4.3 Examples

### 4.3.1 kdgcoursetext

```

<*ct-example>
\documentclass[a4paper,11pt,oneside,openright,english,copyright]{kdgcoursetext}

\usepackage[english,dutch]{babel}
\selectlanguage{english}

\title{Zagen, zoeken en zuchten}
\subtitle{Cursusnota's}
\author{Walter Daems en Paul Levrie}

\courseversion{ZZZ-1011-1.3-CN}
\versionyear{2010}
\versioncomment{Kleine wijzigingen i.vgl.m. versie 2009}

\professor{i}{Zeger de Zager}
\professor{ii}{Zoltan Zoekers}
\professor{iii}{Siana Sigh}

\programme{Master IW - Houtbewerking (Meubel en Kunst)}
\coursecode{i}{KdG-IWT-MA-HM-10-404}
\coursecode{ii}{KdG-IWT-MA-HK-10-407}
\coursecode{iii}{KdG-IWT-MA-H-10-411}

\academicyear{2010-2011}

\titlepagepicture{pi-orchid.jpg}

\copyrightnotices{
  The graphics in this document have been typeset using \texttt{TikZ}.\
  This document has been \TeX-ed on a GNU/Linux workstation.
}

\begin{document}

```

```

\selectlanguage{dutch} % or english if your text is in English

\maketitle

\frontmatter

\tableofcontents

\mainmatter
\chapter*{Inleiding}
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad
minim veniam, quis nostrud exercitation ullamco laboris nisi ut
aliquip ex ea commodo consequat. Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla
pariatur. Excepteur sint occaecat cupidatat non proident, sunt in
culpa qui officia deserunt mollit anim id est laborum.

\chapter{Onzin voor dummies}

\section{Een beetje Cicero}
Sed ut perspiciatis unde omnis iste natus error sit voluptatem
accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae
ab illo inventore veritatis et quasi architecto beatae vitae dicta
sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit
aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos
qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui
dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed
quia non numquam eius modi tempora incidunt ut labore et dolore magnam
aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum
exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex
ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in
ea voluptate velit esse quam nihil molestiae consequatur, vel illum
qui dolorem eum fugiat quo voluptas nulla pariatur?

\begin{equation}
e^{-j\pi} + 1 = 0
\end{equation}

At vero eos et accusamus et iusto odio dignissimos ducimus qui
blanditiis praesentium voluptatum deleniti atque corrupti quos dolores
et quas molestias excepturi sint occaecati cupiditate non provident,
similique sunt in culpa qui officia deserunt mollitia animi, id est
laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita
distinctio. Nam libero tempore, cum soluta nobis est eligendi optio
cumque nihil impedit quo minus id quod maxime placeat facere possimus,
omnis voluptas assumenda est, omnis dolor repellendus. Temporibus
autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe
eveniet ut et voluptates repudiandae sint et molestiae non

```

recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

`\section{En waartoe het geleid heeft}`

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

`\subsection{Herhaling}`

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

`\subsection{Begint vervelend te worden}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

`\newpage`

`\subsection{Begint echt vervelend te worden}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident,

similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

```
\chapter{Besluit}

\backmatter
\appendix

\chapter{Symbolen}
\chapter{Romeinse sprekers}
\chapter{Referentielijst}

\end{document}
</ct-example>
```

#### 4.3.2 kdgmasterthesis

```
<*-example>
\documentclass[a4paper,11pt,twoside,openright,english,copyright]{kdgmasterthesis}

\usepackage[english,dutch]{babel}
\selectlanguage{english}

\title{Minimax optimisatie voor performantieruimtemodellering}
\author{Bert Bibber}

\promoteri{Prof. dr.ir. Kumulus (KdG)}
\promoterii{Prof. dr. Hilarius Warwinkel (TNT-Bang, N.V.)}
\promoteriii{ing. Piet Pienter (POM)}

\academicyear{2011-2012}
\diploma{EI-ICT}
\defenselocation{Hoboken}
\defensedate{juni 2012}

\begin{document}
\selectlanguage{dutch} % or english if your text is in English

\maketitle
```

`\frontmatter`

`\tableofcontents`

`\mainmatter`

`\chapter*{Inleiding}`

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

`\chapter{Onderzoeksvraag}`

`\section{Een beetje Cicero}`

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

`\begin{equation}`

$$e^{-j\pi} + 1 = 0$$

`\end{equation}`

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

```

\chapter{Literatuurstudie}

\chapter{Theoretische achtergrond}

\chapter{Eigen realisatie}

\chapter{Besluit}

\backmatter
\appendix

\chapter{Symbolen}
\chapter{Referentielijst}

\end{document}
</mt-example>

```

## 5 Implementation

### 5.1 Class inheritance

For simplicity, we'll derive everything from the standard `article` class.

Before loading the class, we provide an extra 'copyright' option that forces printing a watermark on every page. For the paper version of your course, this is inappropriate, but for any e-copy you make available to your students, this may be appropriate.

```

1 <*ct>
2 \newif\if@copyright
3 \DeclareOption{copyright}{\@copyrighttrue}
4 </ct>
5 % We execute some standard options:
6 % We load the |book| class.
7 <*ct | mt>
8 \ExecuteOptions{a4paper,11pt,final,oneside,openright}
9 \ProcessOptions
10 \LoadClassWithOptions{book}
11 </ct | mt>

```

### 5.2 Modern typesetting

Let's force some modern typesetting without paragraph indentation and with a decent paragraph spacing.

```

12 <*ct | mt>
13 \setlength{\parindent}{0pt}
14 \addtolength{\parskip}{0.75\baselineskip}
15 \setcounter{secnumdepth}{3}
16 </ct | mt>

```

## 5.3 Auxiliary packages

Reinventing the wheel is a waste of time, let's preload some appropriate auxiliary packages that have proven their value.

### 5.3.1 Geometry

Let's reduce the margins to 1 inch each.

```

17 <*ct | mt>
18 \RequirePackage[top=1in, bottom=1in, left=1in, right=1in]{geometry}
19 </ct | mt>

```

### 5.3.2 Font packages

First some tricks to load the Verdana font that's used on the title page. Fonts are a pain in LaTeX. We're anxiously waiting for the first production release of LuaTeX (expected in 2012)!

```

20 <*ct | mt>
21 \newcommand{\selectverdananormal}
22 {
23   \PackageError{kgddocs}{
24     Sorry, your font system is not set up appropriately.
25     Please, use XeTeX, or pdfTeX in conjunction with the
26     winfonts package or the verdana package (available from CTAN).
27   }{1}
28 }
29 \newcommand{\selectverdanabold}{\selectverdananormal}
30 \RequirePackage{ifxetex}
31 \ifxetex
32 \RequirePackage{cmbright}
33 \RequirePackage{fontspec}
34 \addfontfeature{Ligatures=Common}
35 \renewcommand{\selectverdananormal}{\fontspec{Verdana}}
36 \renewcommand{\selectverdanabold}{\fontspec{Verdana}\bfseries}
37 \else
38 \IfFileExists{verdana.sty}
39 {\RequirePackage{verdana}
40 \renewcommand{\selectverdananormal}{\usefont{T1}{vna}{m}{n}}

```

```

41 \renewcommand{\selectverdanabold}{\usefont{T1}{vna}{b}{n}}
42 }
43 {\IfFileExists{winfonts.sty}
44  {\RequirePackage{winfonts}
45   \renewcommand{\selectverdananormal}{\usefont{T1}{verdana}{m}{n}}
46   \renewcommand{\selectverdanabold}{\usefont{T1}{verdana}{b}{n}}}
47  {}
48 }
49 \RequirePackage{cmbright}
50 \RequirePackage{ifthen}
51 \fi
52 </ct | mt>

```

### 5.3.3 Graphics packages

Graphics packages that are required for the title page, but may come in handy for regular use as well.

```

53 <*ct | mt>
54 \RequirePackage{graphicx}
55 \RequirePackage{eso-pic}
56 \RequirePackage{color}
57 \RequirePackage{tikz}
58 </ct | mt>

```

### 5.3.4 Header/Footer

The de-facto standard for headers and footers:

```

59 <*ct | mt>
60 \RequirePackage{fancyhdr}
61 </ct | mt>

```

## 5.4 Tags

`\department` The `department` sets the department tag `\@department` that is used on the title page. It defaults to 'Industriële Wetenschappen en Technologie'

```

62 <*ct | mt>
63 \newcommand{\@department}{Industri\ "ele Wetenschappen en Technologie}
64 \newcommand{\department}[1]{\renewcommand{\@department}{#1}}
65 </ct | mt>

```

`\departmentacronym` The `departmentacronym` sets the department acronym tag `\@departmentacronym` that is used in the header/footer information. It defaults to 'IWT'.

```

66 <*ct | mt>
67 \newcommand{\@departmentacronym}{IWT}
68 \newcommand{\departmentacronym}[1]{\renewcommand{\@departmentacronym}{#1}}
69 </ct | mt>

```

`\title` The `title` tag is native to L<sup>A</sup>T<sub>E</sub>X. It sets the `\@title` tag that will be used on the title page.

`\subtitle` This macro sets the `\@subtitle` tag that later will be used on the title page, in the header/footer and to set the appropriate `hyperref` tag.

```

70 <*ct>
71 \newcommand{\@subtitle}{}
72 \newcommand{\subtitle}[1]{\renewcommand{\@subtitle}{#1}}
73 </ct>

```

`\author` The `author` tag is native to L<sup>A</sup>T<sub>E</sub>X. It sets the `\@author` tag that will be used on the title page.

`\courseversion` This macro sets the `\@courseversion` tag that later will be used on the title page and in the header/footer.

```

74 <*ct>
75 \newcommand{\@courseversion}{}
76 \newcommand{\courseversion}[1]{\renewcommand{\@courseversion}{#1}}
77 </ct>

```

`\versionyear` This macro sets the `\@versionyear` tag that later will be used on the title page and in the copyright message.

```

78 <*ct>
79 \newcommand{\@versionyear}{}
80 \newcommand{\versionyear}[1]{\renewcommand{\@versionyear}{#1}}
81 </ct>

```

`\versioncomment` This macro sets the `\@versioncomment` tag that later will be used on the title page and in the copyright message.

```

82 <*ct>
83 \newcommand{\@versioncomment}{}
84 \newcommand{\versioncomment}[1]{\renewcommand{\@versioncomment}{#1}}
85 </ct>

```

`\professor` This macro sets many `\@professor` tags (max. 4) that later will be used on the title page. If there is only one teaching professor one can use the convenient shorthand without counter.

```

86 <*ct>
87 \newcommand{\@professori}{}
88 \newcommand{\@professorii}{}
89 \newcommand{\@professoriii}{}
90 \newcommand{\@professoriv}{}
91 \newcommand{\professor}[1]{\renewcommand{\@professori}{#1}}
92 \newcommand{\professorii}[1]{\renewcommand{\@professorii}{#1}}
93 \newcommand{\professoriii}[1]{\renewcommand{\@professoriii}{#1}}
94 \newcommand{\professoriiii}[1]{\renewcommand{\@professoriiii}{#1}}
95 \newcommand{\professoriv}[1]{\renewcommand{\@professoriv}{#1}}
96 </ct>

```

`\promoter` This macro sets many `\@promoter` tags (max. 4) that later will be used on the title page. If there is only one promoter one can use the convenient shorthand without counter.

```

97 <*mt>
98 \newcommand{\@promoteri}{}
99 \newcommand{\@promoterii}{}
100 \newcommand{\@promoteriii}{}
101 \newcommand{\@promoteriv}{}
102 \newcommand{\promoter}[1]{\renewcommand{\@promoteri}{#1}}
103 \newcommand{\promoterii}[1]{\renewcommand{\@promoterii}{#1}}
104 \newcommand{\promoteriii}[1]{\renewcommand{\@promoteriii}{#1}}
105 \newcommand{\promoteriiii}[1]{\renewcommand{\@promoteriiii}{#1}}
106 \newcommand{\promoteriv}[1]{\renewcommand{\@promoteriv}{#1}}
107 </mt>

```

`\programme` This macro sets the `\@programme` tags that later will be used on the title page.

```

108 <*ct>
109 \newcommand{\@programme}{}
110 \newcommand{\programme}[1]{\renewcommand{\@programme}{#1}}
111 </ct>

```

`\coursecode` This macro sets many `\@coursecode` tags (max. 4) that later will be used on the title page. If there is only one course code one can use the convenient shorthand without counter.

```

112 <*ct>
113 \newcommand{\@coursecodei}{}
114 \newcommand{\@coursecodeii}{}
115 \newcommand{\@coursecodeiii}{}
116 \newcommand{\@coursecodeiv}{}
117 \newcommand{\coursecode}[1]{\renewcommand{\@coursecodei}{#1}}
118 \newcommand{\coursecodeii}[1]{\renewcommand{\@coursecodeii}{#1}}
119 \newcommand{\coursecodeiii}[1]{\renewcommand{\@coursecodeiii}{#1}}
120 \newcommand{\coursecodeiiii}[1]{\renewcommand{\@coursecodeiiii}{#1}}
121 \newcommand{\coursecodeiv}[1]{\renewcommand{\@coursecodeiv}{#1}}

```

122  $\langle$ /ct $\rangle$

$\backslash$ diploma This macro sets the  $\backslash$ @diploma tags that later will be used on the title page.

123  $\langle$ \*mt $\rangle$

124  $\backslash$ newcommand $\{\backslash$ @diploma $\}$ {ERROR}

125  $\backslash$ newcommand $\{\backslash$ diploma $\}$ [1]{

126  $\backslash$ newcommand $\{\backslash$ MoSIW $\}$ {Master of Science in de Industri"ele Wetenschappen}

127  $\backslash$ renewcommand $\{\backslash$ @diploma $\}$ {

128  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {BCH} $\}$  $\{\backslash$ MoSIW $\}$  Biochemie $\}$ {

129  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {CH} $\}$  $\{\backslash$ MoSIW $\}$  Chemie $\}$ {

130  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {EI-AE} $\}$  $\{\backslash$ MoSIW $\backslash$ Elektroncia-ICT, afstudeerrichting Automotive Engine $\}$ {

131  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {EI-ICT} $\}$  $\{\backslash$ MoSIW $\backslash$ Elektroncia-ICT, afstudeerrichting ICT $\}$ {

132  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {EM-AE} $\}$  $\{\backslash$ MoSIW $\backslash$ Elektromechanica, afstudeerrichting Automotive Engin $\}$ {

133  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {EM-AU} $\}$  $\{\backslash$ MoSIW $\backslash$ Elektromechanica, afstudeerrichting Automatisering $\}$ {

134  $\backslash$ ifthenelse $\{\backslash$ equal $\{#1\}$ {EM-EM} $\}$  $\{\backslash$ MoSIW $\backslash$ Elektromechanica, afstudeerrichting Elektromechanica $\}$ {

135 }

136

137  $\langle$ /mt $\rangle$

$\backslash$ defensedate This macro sets the  $\backslash$ @defensedate tags that later will be used on the title page.

138  $\langle$ \*mt $\rangle$

139  $\backslash$ newcommand $\{\backslash$ @defensedate $\}$ {ERROR}

140  $\backslash$ newcommand $\{\backslash$ defensedate $\}$ [1]{ $\backslash$ renewcommand $\{\backslash$ @defensedate $\}$ {#1}}

141  $\langle$ /mt $\rangle$

$\backslash$ defenselocation This macro sets the  $\backslash$ @defenselocation tags that later will be used on the title page.

142  $\langle$ \*mt $\rangle$

143  $\backslash$ newcommand $\{\backslash$ @defenselocation $\}$ {Hoboken}

144  $\backslash$ newcommand $\{\backslash$ defenselocation $\}$ [1]{ $\backslash$ renewcommand $\{\backslash$ @defenselocation $\}$ {#1}}

145  $\langle$ /mt $\rangle$

$\backslash$ academicyear This macro sets the  $\backslash$ @academicyear tag that later will be used on the title page.

146  $\langle$ \*ct | mt $\rangle$

147  $\backslash$ newcommand $\{\backslash$ @academicyear $\}$ {XXX-YYYY}

148  $\backslash$ newcommand $\{\backslash$ academicyear $\}$ [1]{ $\backslash$ renewcommand $\{\backslash$ @academicyear $\}$ {#1}}

149  $\langle$ /ct | mt $\rangle$

$\backslash$ titlepagepicture

150  $\langle$ \*ct $\rangle$

151  $\backslash$ newcommand $\{\backslash$ @titlepagepicture $\}$ {}

152  $\backslash$ newcommand $\{\backslash$ titlepagepicture $\}$ [1]{ $\backslash$ renewcommand $\{\backslash$ @titlepagepicture $\}$ {#1}}

153  $\langle$ /ct $\rangle$

`\copyrightnotices`

```
154 <*ct>
155 \newcommand{\@copyrightnotices}{}
156 \newcommand{\copyrightnotices}[1]{\renewcommand{\@copyrightnotices}{#1}}
157 </ct>
```

## 5.5 Header and Footer

The `fancyhdr` package is used to make a decent header and footer. The header and footer of the `kdgcoursetext` package are defined to be:

```
158 <*ct>
159 \if@twoside
160 \lhead[\thepage]{\slshape\rightmark}
161 \chead[]{}
162 \rhead[\slshape\leftmark]{\thepage}
163 \lfoot[Karel de Grote-Hogeschool -- \@departmentacronym]{\@courseversion}
164 \cfoot[]{}
165 \rfoot[]{\@title{}}\if\@subtitle\else{ ---- \@subtitle}\fi
166 \else
167 \lhead[]{\leftmark}
168 \chead[]{}
169 \rhead[]{\thepage}
170 \lfoot[]{\@courseversion}
171 \cfoot[]{KdG--\@departmentacronym}
172 \rfoot[]{\@title{}}
173 \fi
174 </ct>
```

The header and footer of the `kdgmasterthesis` package are defined to be:

```
175 <*mt>
176 \if@twoside
177 \lhead[\thepage]{\slshape\rightmark}
178 \chead[]{}
179 \rhead[\slshape\leftmark]{\thepage}
180 \lfoot[Karel de Grote-Hogeschool -- \@departmentacronym]{}
181 \cfoot[]{}
182 \rfoot[]{\@title{}}
183 \else
184 \lhead[]{\leftmark}
185 \chead[]{}
186 \rhead[]{\thepage}
187 \lfoot[]{}
188 \cfoot[]{KdG--\@departmentacronym}
189 \rfoot[]{\@title{}}
190 \fi
191 </mt>
```

Some common code remains:

```
192 <*ct | mt>
193 \renewcommand{\headrulewidth}{1pt}
194 \renewcommand{\footrulewidth}{1pt}
195 \pagestyle{fancy}
196 \raggedbottom
197 \raggedright
198 \pagenumbering{arabic}
199 \onecolumn
200 </ct | mt>
```

## 5.6 Copyright notice

`\@crnotice`

```
201 <*ct>
202 \newcommand{\@crnotice}{
203   This document has been typeset using \LaTeX{} and the
204   \texttt{kdgcoursetext} class.\@
205   \@copyrightnotices
206
207   \@courseversion
208
209   CONFIDENTIAL AND PROPRIETARY.
210
211   \copyright{} \@versionyear{} Karel de Grote-Hogeschool, All rights reserved.
212 }
213 </ct>
```

## 5.7 Title page

`\maketitle` The title page is generated using the `\maketitle` command. As the book class from which we inherit already defines this command, we need to renew it.

Below, one can find the code for the title page of the `kdgcoursetext` class:

```
214 <*ct>
215 \renewcommand\maketitle{%
216   \definecolor{lightlightgray}{cmyk}{0,0,0,0.05}
217   \definecolor{kdggroen}{cmyk}{0.29,0,1,0}
218   \pagestyle{empty}
219   \begin{titlepage}
220     \AddToShipoutPicture*{%
221       \setlength{\unitlength}{1cm}
222       \put(0,0){%
223         \begin{tikzpicture}[inner sep=0pt]
224           \path
```

```

225         (19,2.5) node [anchor=south east]{%
226             \IfFileExists{\@titlepagepicture}{%
227                 \includegraphics[width=13.99cm,height=9cm]{\@titlepagepicture}}{}};
228     \fill[color=kdggroen] (0,0)
229     (2,1.5) -- (2,26.31) -- (19,27.2) -- (19,22.7) --
230     (5,22.7) -- (5,2.5) -- (19,2.5) -- (19,1.5) -- cycle;
231     \path
232     (2,28.2) node[anchor=north west]{\includegraphics[width=8.3cm]{kdg_color}}
233     (3,25.8) node[anchor=north west, text width=15cm]{
234         {\selectverdanabold\Large \@programme}\}[0.15cm]
235         {\selectverdananormal
236             \large Departement \@department}\}[0.13cm]
237             \large Academiejaar \@academicyear}\}[0.11cm]
238             \large \begin{tabular}{@{}p{3cm}p{5.5cm}p{5.5cm}}
239                 Cursuscode(s): & \@coursecodei{} & \@coursecodeii \
240                 & \@coursecodeiii & \@coursecodeiv
241             \end{tabular}}
242     }
243     (6,21.1) node [anchor=north west, text width=13cm]{
244         {\selectverdanabold\huge \@title}\}[0.2cm]
245         {\selectverdananormal
246             \Large \@subtitle}\}[0.8cm]
247             \Large Auteur(s): \@author}}
248     }
249     (6,15.4) node [anchor=south west, text width=13cm]{
250         \selectverdananormal\large
251         \begin{tabular}{@{}p{3cm}p{11cm}}
252             Titularis(sen):
253             & \@professori \
254             & \@professorii \
255             & \@professoriii \
256             & \@professoriv
257         \end{tabular}
258         ~\
259         \@versionyear
260     }
261     (6,12.4) node [anchor=south west, text width=13cm]{%
262         \selectverdananormal
263         \begin{tabular}{@{}p{12.9cm}}
264             \if\@versioncomment\else{Commentaar: \@versioncomment}\fi
265         \end{tabular}
266     };
267     \end{tikzpicture}
268 }
269 }%
270 \phantom{Do not remove: this causes an empty title page to be generated}
271 \end{titlepage}%
272 \clearpage
273 \if@copyright
274 \AddToShipoutPicture{\put(120,180){

```

```

275     \rotatebox{55}{\color{lightlightgray}{
276         \selectverdanabold{}}\Huge
277         Copyright \@versionyear{} Karel de Grote-Hogeschool}}}}
278 \fi
279 \vspace*{\stretch{1}}
280 \@crnotice
281 \clearpage
282 \setcounter{footnote}{0}%
283 \global\let\thanks\relax
284 \global\let\maketitle\relax
285 \global\let\@thanks\@empty
286 \global\let\title\relax
287 \global\let\author\relax
288 \global\let\date\relax
289 \global\let\and\relax
290 \pagestyle{fancy}
291 \thispagestyle{empty}
292 }
293 </ct>

```

And next, the code for the title page of the kdgmastertesis class:

```

294 <*mt>
295 \renewcommand\maketitle{%
296     \definecolor{lightlightgray}{cmyk}{0,0,0,0.05}
297     \definecolor{kdggroen}{cmyk}{0.29,0,1,0}
298     \pagestyle{empty}
299     \begin{titlepage}
300         \AddToShipoutPicture*{%
301             \setlength{\unitlength}{1cm}
302             \put(0,0){%
303                 \begin{tikzpicture}[inner sep=0pt]
304                     \fill[color=kdggroen] (0,0)
305                     (2,1.5) -- (2,2.5) -- (19,2.5) -- (19,1.5) -- cycle;
306                     \fill[color=lightlightgray] (0,0)
307                     (2,2.5) -- (2,26.31) -- (19,27.2) -- (19,2.5) -- cycle;
308                     \path
309                     (2,28.2) node[anchor=north west]{\includegraphics[width=8.3cm]{kdg_color}}
310                     (2.5,25.8) node[anchor=north west, text width=15cm]{
311                         {\selectverdanabold\large Departement \@department{}}\}[0.13cm]
312                         {\selectverdanabold\large Masterproef \@academicyear}
313                     }
314                     (3.5,20) node [anchor=north west, text width=14cm]{
315                         {\selectverdanabold\Large \@title{}}\}[0.2cm]
316                         {\selectverdananormal\large \@author{}}
317                     }
318                     (2.5,12.2) node [anchor=south west, text width=13cm]{
319                         \selectverdananormal\small
320                         \begin{tabular}{@{}p{2.5cm}p{11cm}}
321                             \textbf{Promotoren:}

```

```

322         & \@promoteri \\
323         & \@promoterii \\
324         & \@promoteriii \\
325         & \@promoteriv
326     \end{tabular}
327 }
328 (18.5,5.5) node [anchor=north east]{%
329     \selectverdananormal\small
330     \begin{tabular}{@{}r}
331         Proefschrift tot het behalen van de graad van\\
332         \@diploma\\
333         \@defenselocation, \@defensedate
334     \end{tabular}
335 };
336 \end{tikzpicture}
337 }
338 }%
339 \phantom{Do not remove: this causes an empty title page to be generated}
340 \end{titlepage}%
341 \if@twoside
342 \cleardoublepage
343 \else
344 \clearpage
345 \fi
346 \setcounter{footnote}{0}%
347 \global\let\thanks\relax
348 \global\let\maketitle\relax
349 \global\let\@thanks\@empty
350 \global\let\title\relax
351 \global\let\author\relax
352 \global\let\date\relax
353 \global\let\and\relax
354 \pagestyle{fancy}
355 \thispagestyle{empty}
356 }
357 </mt>

```

## 5.8 References

```

358 <*ct | mt>
359 \RequirePackage{hyperref}
360 \hypersetup{backref=true,
361             breaklinks=true,
362             colorlinks=true,
363             citecolor=black,
364             filecolor=black,
365             hyperindex=true,
366             linkcolor=black,
367             pageanchor=true,

```

```

368         pagebackref=true,
369         pagecolor=black,
370         pdfpagemode=UseOutlines,
371         urlcolor=black}
372 </ct | mt>
373 %
374 <*ct>
375 \AtBeginDocument{
376   \hypersetup{
377     pdftitle={\@title},
378     pdfsubject={\@subtitle},
379     pdfauthor={\@author}
380   }
381 }
382 </ct>
383 %
384 <*mt>
385 \AtBeginDocument{
386   \hypersetup{
387     pdftitle={\@title},
388     pdfsubject={Master's Thesis},
389     pdfauthor={\@author}
390   }
391 }
392 </mt>

```

## Change History

v0.1	General: Initial version . . . . . 1	v0.4	General: - Corrected license conditions after remark about inconsis- tency by CTAN maintainer . . . 1
v0.2	General: Improved documentation based on revision by Paul . . . . 1	v0.5	General: - Minor corrections applied on first real-world use (a.o. ragged- bottom and raggedright, to comply with the KdG quality standard for written study con- tent) . . . . . 1
v0.3	General: - Fixed treatment of ligatures for XeTeX - Made workaround for position- ing of titlepagepicture to over- come XeLaTeX problems. - Introduced department and departmentacronym tag macros to allow other departments to use this class. - Made package compliant to CTAG TDS guide- lines . . . . . 1	v1.0	General: - Consolidated kdgcoursetext class (thoroughly tested with my DSP course) - Added kdg- masterthesis class . . . . . 1

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