

The `coppe` document class

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Abstract

In this work, it is described the `coppe` document class as well as other files distributed by the COPPE \TeX project. This class is suitable for writing academic dissertations, thesis and qualifying exams according to the format rules of the Alberto Luiz Coimbra Institute for Graduate Studies and Research in Engineering. The minimalist set of macro commands allows its users to concentrate most of their efforts on text composition rather than on the document layout.

1 Introduction

Writing documents in \LaTeX may be a laborious task when the authors have to prepare their manuscripts rigorously respecting format rules imposed by publishers. Regardless of difficulty, a lot of thesis presented to the Coordination of Graduate Studies and Research in Engineering of the Federal University of Rio de Janeiro (COPPE/UFRJ) is typesetted in \LaTeX . This demand motivated the creation of the COPPE \TeX project, which tries to facilitate and encourage the use of \LaTeX within the COPPE/UFRJ scope.

The `coppe` document class is the main product of COPPE \TeX . It was designed to be clear and succinct. It enables the creation of dissertations, qualifying exams and thesis in a simple and automatic way. The main goal of the `coppe` class is to maintain authors strictly focused on text composition without worrying about margins sizes, line spacing, paper size, vertical and horizontal alignment, etc. The COPPE \TeX project comprehends also BIB \TeX and Makeindex style files for creating lists of references, symbols and abbreviations. Although there aren't official guidelines to write qualifying exams, we provide this option just for convenience, as this exam is a requisite to obtain the DSc degree.

In which follows, it is described the user interface of the `coppe` class. Some details about using the style files cited above are also given. We use the term *thesis* to generally refer to dissertation, qualifying exam, and thesis itself.

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3 User Interface

`\frontmatter` A thesis to be approved by the Academic Registry at COPPE/UFRJ must contain
`\mainmatter` three-parts: *front*, *main* and *back* matters [1]. Each one of these parts is started
`\backmatter` by calling its corresponding macro `\frontmatter`, `\mainmatter` or `\backmatter`.
The front matter of a thesis consists of front cover and face, cataloging page, dedication, acknowledgments, abstracts, table of contents, and lists of tables, algorithms, symbols and abbreviations. The main matter is just composed by chapters, while the back matter usually consists of bibliographic references, appendices and index.

You must invoke the `\frontmatter` macro immediately after the `\maketitle` one. The `\mainmatter` command comes right before the first chapter, and `\backmatter` must be typed before the list of references.

Front cover

This element was recently introduced by the Academic Registry. It is automatically constructed by the `\maketitle` command.

Front face

The front face is unnumbered. There, it is not allowed to use hyphenation [1]. It is constructed by calling `\maketitle`. Next, it is described the commands used to enter the information required to create it.

`\author` The `\author` command was redefined. Here, it takes two arguments: the author's first names and surname, e.g. `\author{First Names}{Surname}`. The words should be typed with only first letters in uppercase.

`\title` The macros `\title` and `\foreigntitle` are used to enter the titles of the
`\foreigntitle` monograph in the current and foreign languages. The default languages are Brazilian Portuguese and English. The `babel` package is automatically loaded by `coppe.cls`, so you don't need to load it again. The Brazilian Portuguese is the main language and the English is only required for the foreign abstract.

`\advisor` Every COPPE student is coordinated by an advisor. It is still possible to
`\coadvisor` have a co-advisor. Their names must be provided by the commands `\advisor`
`\examiner` and `\coadvisor`. It is also required to enter the names of all examiners using the

`\examiner` macro. For the advisor and co-advisor's names, you should enter them as below:

```
\advisor{Title}{Advisor's Name}{Advisor's Surname}{Degree}
\coadvisor{Title}{Co-advisor's Name}{Co-advisor's Surname}{Degree}
```

The examiners' names are entered differently:

```
\examiner{Title}{First Examiner's Complete Name}{Degree}
\examiner{Title}{Second Examiner's Complete Name}{Degree}
...
```

The difference in providing advisors and examiners' names was introduced in version 2.0, because of the new standard approved in 3rd July 2008. Remember that all names must be given before calling `\maketitle`.

`\department` The Alberto Luiz Coimbra institute is divided into 12 academic units: Biomedical Engineering (PEB), Civil Engineering (PEC), Electrical Engineering (PEE), Mechanical Engineering (PEM), Metallurgical and Materials Science Engineering (PEMM), Nuclear Engineering (PEN), Ocean Engineering (PENo), Energy Planning (PPE), Production Engineering (PEP), Chemical Engineering (PEQ), Systems Engineering and Computer Science (PESC), and Transportation Engineering (PET). You must specify your department using one of the above abbreviations, e.g. `\department{PEB}`.

`\date` This macro is used to set the month and year of defense. This information is required to create the front face, cataloging details page and abstracts. For example, October 2007 should be entered as `\date{10}{2007}`.

`\keyword` The keywords should describe the concentration areas of your work. You must provide them as follows:

```
\keyword{First Keyword}
\keyword{Second Keyword}
...
```

Usually, six words are enough.

Cataloging details

This page contains cataloging information useful for librarians. It is automatically generated from the data entered by the user when calling `\maketitle`, except in qualifying exams.

Dedication (optional)

`\dedication` This macro was added for convenience. The input text is placed at the right bottom of a blank page. It is emphasized and in normal size. It is numbered with roman digits.

Abstracts

`abstract` As stated by the Academic Registry [1], the abstracts must be in one page each.
`foreignabstract` Still, it is recommended that they should be only one paragraph long. They must be defined inside the environments `abstract` and `foreignabstract`.

Lists of symbols and abbreviations (optional)

`\abbrev` The lists of symbols and abbreviations are optionals. It is recommended to de-
`\syml` fine a symbol/abbreviation in its first occurrence in the text. To define a sym-
bol use `\syml{Some Symbol}{Some Symbol Definition}`, and for abbreviations
`\abbrev{Some Abbreviation}{Some Abbreviation Definition}`. These com-
mands are called *dummy*, since they don't output anything at the place they are
executed, just an entry in the correspondent list.

`\makeloabbreviations` These lists are lexicographically sorted by using the MakeIndex program, which
`\makelosymbols` is part of any L^AT_EX implementation. Makeindex needs two commands to create a
`\printloabbreviations` final sorted list: one which generates a list of entries and the other that indicates
`\printlosymbols` the position where the list will be printed out. To generate the lists of symbols
and abbreviations, the `coppe` class has the commands `\makeloabbreviations`
and `\makelosymbols`, respectively. They must be called in the document preamble.
The commands `\printlosymbols` and `\printloabbreviations` have to be
invoked at the point where you want the respective lists appear, e.g. following the
list of tables as showed in the example. Once you call `latex`, it will be created
two files with extensions `abx` and `syx`, which contain makeindex input data. They
must be processed with `makeindex` command in order to get the lists correctly
produced, redirecting the output to files with extension `lab` and `los` respectively:

```
makeindex -s coppe.ist -o example.lab example.abx
makeindex -s coppe.ist -o example.los example.syx
```

Note the option `-s` with the style file `coppe.ist`. Rerun `latex` twice to get the references correctly solved and you are done.

References

It is well known that bibliography databases can be easily maintained when using BIB_TE_X. Thus, the COPPE_TE_X project designed the BIB_TE_X style `coppe-unsrt.bst` to complement the `coppe` class. It is a numbered style, which sorts references by order of citation. To use it, you have to select `coppe-unsrt` as the BIB_TE_X style and include your BIB_TE_X references without the `bib` extension, as in the following example:

```
\bibliographystyle{coppe-unsrt}
\bibliography{example}
```

Run in sequence L^AT_EX, BIB_TE_X, and twice again L^AT_EX to resolve references issues. This style is not compatible with `natbib`.

4 Graphics driver

Since the addition of a front cover with a Minerva's picture, it is required to use a package to enable graphical inclusion. You may choose among three standard graphical drivers, `dvips`, `pdftex` and `dvipdfm`, just passing it as a class option. The `COPPETEX` loads `graphicx` using the `dvips` driver by default, so you mustn't load it by yourself.

If you would like to generate a PDF output, we encourage the use of `pdfTEX`. Remember that `pdfTEX` turns the default graphics extension to PDF.

5 Hyperref

When working with PDF's, there is the possibility to add extra information to the file as the author's name, document title, subject, keywords, etc. This is easily done with the `hyperref` package. It is also useful to enable hyperlinks. The `coppe` class loads `hyperref` by default and fills in all the document properties.

6 Useful tips

Printing. To get your work correctly printed, you must ensure that any page scaling option (e.g. `fit` or `shrink` to printable area) isn't enabled. This options often comes in print dialogs of document visualization softwares.

Pictures. The default picture format of `LATEX` is the Encapsulated PostScript (EPS). If you use `pdfTEX`, the default format becomes the PDF. The package `graphicx` enables handling other formats like JPEG, PNG and GIF. In this case, you must provide the bounding box of your picture. There are two ways of doing this: pass an option to the `\includegraphics` command (e.g. `\includegraphics[bb = 0 0 35 28]{picture.png}`), or provide a file with extension `bb` containing the bounding box values (e.g. `%%BoundingBox: 0 0 9 12`). This file will be automatically read by `LATEX`.

Fonts. The default font in `LATEX` is the Computer Modern. If you would like to try its enhanced version, consider using the package `lmodern`. To use Times, it is recommended to load the package `mathptmx`, rather than the deprecated `times`. There is also an enhanced Times version available with the `tgtermes` package. You can still use the Arial font face with the package `uarial`. Before including these packages you should call `\usepackage[T1]{fontenc}`. This command will tell `LATEX` to use high-quality PostScript Type1 fonts.

7 A Simple Example

```
1 <example>
2 \documentclass[dsc,pdftex]{coppe}
3 \usepackage[latin1]{inputenc}
4 \usepackage{amsmath,amssymb}
```

```

5
6 \makelosymbols
7 \makeabbreviations
8
9 \begin{document}
10 \title{Desenvolvimento de um Algoritmo Baseado no Método de Arnoldi para
11 Solução de Problemas de Autovalor Generalizado}
12 \foreigntitle{Solution of Generalized Eigensystems with Algorithms Based on
13 Arnoldi Methods}
14 \author{George Oliveira}{Ainsworth Jr.}
15 \advisor{Prof.}{Carlos}{Magluta}{D.Sc.}
16 \coadvisor{Prof.}{Fernando Luiz Bastos}{Ribeiro}{D.Sc.}
17 \examiner{Prof.}{Alvaro Luiz Gayoso Azeredo Coutinho}{D.Sc.}
18 \examiner{Prof.}{Webe João Mansur}{Ph.D.}
19 \examiner{Prof.}{Paulo Batista Gonçalves}{D.Sc.}
20 \department{PEC}
21 \date{12}{2008}
22
23 \keyword{Problemas de Autovalor}
24 \keyword{Método de Arnoldi}
25 \keyword{Análise Dinâmica}
26 \maketitle
27
28 \frontmatter
29
30 \dedication{À minha mãe pelo dom da vida e pelo amparo ao longo desses anos.\\
31 Às minhas tias Vanete e Vanilde (\emph{in memoriam}).}
32
33 \chapter*{Agradecimentos}
34 Agradeço ao Conselho Nacional de Desenvolvimento Científico e Tecnológico dos
35 Estados Unidos do Brasil (CNPq) pelo suporte financeiro.
36
37 \begin{abstract}
38 Autovalores e autovetores de operadores lineares são importantes para muitas
39 áreas da Matemática Aplicada. Na Engenharia Civil, sobretudo na Engenharia de
40 Estruturas o uso de problemas de autovalor tem fundamental importância, um
41 exemplo típico é a análise dinâmica, onde os autovalores representam as
42 frequências naturais e os autovetores os modos de vibração associados à sua
43 frequência natural correspondente. A crescente demanda da avaliação numérica
44 de forma mais eficiente dessas quantidades, despertou o interesse na busca de
45 novos métodos para a solução de problemas de autovalor, principalmente quando
46 o problema a ser analisado conduz a quantidades pertencentes ao conjunto dos
47 números complexos.
48 \end{abstract}
49
50 \begin{foreignabstract}
51 Eigenvalues and eigenvectors of linear operators are important in many Applied
52 Mathematics areas. In Civil Engineering, especially in Structural Analysis,
53 eigensystems have a fundamental importance. A typical example is in dynamic
54 analysis, where the eigenvalues represent the natural frequencies and

```

```

55 eigenvectors the mode shape. The increasing demand for efficient numeric
56 evaluation of eigenvalues and eigenvectors motivated the search for new
57 methods for the solution of complex eigensystems.
58 \end{foreignabstract}
59
60 \tableofcontents
61 \listoffigures
62 \listoftables
63 \printlosymbols
64 \printloabbreviations
65
66 \mainmatter
67 \chapter{Introdução}
68 Em métodos numéricos para obter soluções aproximadas de equações
69 diferenciais, tais como o método dos elementos finitos (MEF)%
70 \abbrev{MEF}{método de elementos finitos}
71 e o método dos volumes finitos (MVF)%
72 \abbrev{MVF}{método de volumes finitos}, o domínio no qual estas
73 equações foram definidas é discretizado em sub-domínios simples
74 denominados \textit{elementos}.
75
76 Denotemos o domínio por  $\Omega$ %
77 \symlbl{$\Omega$}{domínio de definição de uma equação diferencial}
78
79 \chapter{Revisão Bibliográfica}
80 \chapter{Método Proposto}
81 \chapter{Resultados e Discussões}
82 \chapter{Conclusões}
83
84 \backmatter
85 \nocite{*}
86 \bibliographystyle{coppe-unsrt}
87 \bibliography{coppe}
88
89 \appendix
90 \chapter{Código Fonte}
91 \end{document}
92 \end{example}

```

8 Implementation

8.1 The ‘coppe.cls’ file

```

93 \class
94 \def\filename{coppe.dtx}
95 \def\fileversion{v2.0}
96 \def\filedate{2007/03/01}
97 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
98 \ProvidesClass{coppe}[\filedate\ \fileversion\ COPPE Dissertations and Thesis]
99 \LoadClass[12pt,a4paper,oneside]{book}

```

```

100 \RequirePackage{lastpage}
101 \RequirePackage{hyperref}
102 \RequirePackage[english,brazil]{babel}
103 \RequirePackage{hyphenat}
104 \RequirePackage{ifthen}
105 \RequirePackage{graphicx}
106 \RequirePackage{tabularx}
107 \RequirePackage{eqparbox}
108 \RequirePackage[a4paper,bindingoffset=0.0cm,vcentering=true,%
109 top=2.5cm,bottom=2.5cm,left=3.0cm,right=3.0cm]{geometry}
110 \def\CoppeTeX{\rm C\kern-.05em{\sc o\kern-.025em p\kern-.025em
111 p\kern-.025em e}}\kern-.08emTeX}

    The default line spacing is 1.5pt.
112 \renewcommand\baselinestretch{1.5}

113 \let\@adname\@empty
114 \let\@adurn\@empty
115 \let\@coadname\@empty
116 \let\@coadurn\@empty
117 \newcounter{minexaminers}
118 \newboolean{isdraft}
119 \newboolean{maledoc}
120 \setboolean{maledoc}{false}
121 \setboolean{isdraft}{false}
122 \newboolean{needbb}
123 \setboolean{needbb}{false}
124 %
125 \DeclareOption{msc}{%
126   \newcommand{\@degree}{M.Sc.}
127   \newcommand{\@degreename}{Mestrado}
128   \newcommand{\local@degname}{Mestre}
129   \newcommand{\foreign@degname}{Master}
130   \newcommand\local@doctype{Disserta{\c c}{\~ a}o}
131   \newcommand\foreign@doctype{Dissertation}
132   \setcounter{minexaminers}{2}
133 }
134 \DeclareOption{dscexam}{%
135   \newcommand{\@degree}{D.Sc.}
136   \newcommand{\@degreename}{Doutorado}
137   \newcommand{\local@degname}{Doutor}
138   \newcommand{\foreign@degname}{Doctor}
139   \setboolean{maledoc}{true}
140   \newcommand\local@doctype{Exame de Qualifica{\c c}{\~ a}o}
141   \newcommand\foreign@doctype{Qualifying Exam}
142   \setcounter{minexaminers}{1}
143 }
144 \DeclareOption{dsc}{%
145   \newcommand{\@degree}{D.Sc.}
146   \newcommand{\@degreename}{Doutorado}
147   \newcommand{\local@degname}{Doutor}

```



```

148 \newcommand{\foreign@degname}{Doctor}
149 \newcommand\local@doctype{Tese}
150 \newcommand\foreign@doctype{Thesis}
151 \setcounter{minexaminers}{2}
152 }
153 \DeclareOption{draft}{%
154 \setboolean{isdraft}{true}
155 \ClassWarning{coppe}{draft mode is ON}%
156 }
157 \DeclareOption{dvips}{%
158 \PassOptionsToPackage{dvips}{hyperref,graphicx}
159 }
160 \DeclareOption{dvipdfm}{%
161 \PassOptionsToPackage{dvipdfm}{hyperref,graphicx}
162 \setboolean{needbb}{true}
163 }
164 \DeclareOption{pdftex}{%
165 \PassOptionsToPackage{pdftex}{hyperref,graphicx}
166 \PassOptionsToPackage{plainpages=false,pdfpagelabels}{hyperref}
167 }
168 \ProcessOptions\relax

\university Set the university name.

169 \newcommand\university[1]{%
170 \renewcommand\local@universityname{#1}
171 }
172 %
173 % \begin{macro}{\department}
174 % This macro is used to set the author's affiliation. There are twelve options
175 % which correspond to all academic units at COPPE/UFRJ. It defines the current
176 % and the foreign names of these units.
177 % \begin{macrocode}
178 \newcommand\department[1]{%
179 \ifthenelse{equal{#1}{PEB}}{
180 {\global\def\local@deptname{Engenharia Biom{\` e}dica}
181 \global\def\foreign@deptname{Biomedical Engineering}}{}
182 \ifthenelse{equal{#1}{PEC}}{
183 {\global\def\local@deptname{Engenharia Civil}
184 \global\def\foreign@deptname{Civil Engineering}}{}
185 \ifthenelse{equal{#1}{PEE}}{
186 {\global\def\local@deptname{Engenharia El{\` e}trica}
187 \global\def\foreign@deptname{Electrical Engineering}}{}
188 \ifthenelse{equal{#1}{PEM}}{
189 {\global\def\local@deptname{Engenharia Mec{\^ a}nica}
190 \global\def\foreign@deptname{Mechanical Engineering}}{}
191 \ifthenelse{equal{#1}{PEMM}}{
192 {\global\def\local@deptname{Engenharia Metal{\` u}rgica e de Materiais}
193 \global\def\foreign@deptname{Metallurgical and Materials Science Engineering}}{}
194 \ifthenelse{equal{#1}{PEN}}{
195 {\global\def\local@deptname{Engenharia Nuclear}

```

```

216     \global\def\foreign@deptname{Nuclear Engineering}}{}
217 \ifthenelse{equal{#1}{PENO}}
218   {\global\def\local@deptname{Engenharia Oce{\^ a}nica}
219     \global\def\foreign@deptname{Ocean Engineering}}{}
220 \ifthenelse{equal{#1}{PPE}}
221   {\global\def\local@deptname{Planejamento Energ{\` e}tico}
222     \global\def\foreign@deptname{Energy Planning}}{}
223 \ifthenelse{equal{#1}{PEP}}
224   {\global\def\local@deptname{Engenharia de Produ{c c}{\^ a}o}
225     \global\def\foreign@deptname{Production Engineering}}{}
226 \ifthenelse{equal{#1}{PEQ}}
227   {\global\def\local@deptname{Engenharia Qu{\` i}mica}
228     \global\def\foreign@deptname{Chemical Engineering}}{}
229 \ifthenelse{equal{#1}{PESC}}
230   {\global\def\local@deptname{Engenharia de Sistemas e Computa{c c}{\^ a}o}
231     \global\def\foreign@deptname{Systems Engineering and Computer Science}}{}
232 \ifthenelse{equal{#1}{PET}}
233   {\global\def\local@deptname{Engenharia de Transportes}
234     \global\def\foreign@deptname{Transportation Engineering}}{}
235 }

\title Used to enter the foreign title.
216 \renewcommand\title[1]{%
217   \global\def\local@title{#1}%
218 }

\foreigntitle Used to enter the foreign title.
219 \newcommand\foreigntitle[1]{%
220   \global\def\foreign@title{#1}%
221 }

\advisor Defines globally the title, name and academic degree of the advisor.
222 \newcommand\advisor[4]{%
223   \global\def\@adtitle{#1}%
224   \global\def\@adname{#2}%
225   \global\def\@adurn{#3}%
226   \global\def\@addegree{#4}%
227 }

\coadvisor Defines globally the title, name and academic degree of the co-advisor.
228 \newcommand\coadvisor[4]{%
229   \global\def\@coadtitle{#1}%
230   \global\def\@coadname{#2}%
231   \global\def\@coadurn{#3}%
232   \global\def\@coaddegree{#4}%
233   \renewcommand\local@advisorstring{Orientadores}%
234   \renewcommand\foreign@advisorstring{Advisors}%
235 }

```

`\examiner` It was fixed a maximum of 6 examiners, just for the sake of page layout.

```
236 \newcount\@examiner\@examiner0
237 \newcommand\examiner[3]{%
238   \global\@namedef{S:\expandafter\the\@examiner}{#1\ #2, #3}
239   \global\advance\@examiner by 1
240   % Should we use this check?
241   % \ifnum\@examiner>6
242   %   \ClassWarning{coppe}{%
243   %     Maximum number of examiners exceeded.\MessageBreak
244   %     Printing only six of them}
245   %   \@examiner=6
246   % \fi
247 }
```

`\author` It is redefined to allow the identification of the author's first names and surname.

```
248 \renewcommand\author[2]{%
249   \global\def\@authname{#1}
250   \global\def\@authsurn{#2}
251 }
```

`\date` This code enables makes easy to switch from dates in different languages.

```
252 \renewcommand\date[2]{%
253   \month=#1
254   \year=#2
255 }
```

`\local@monthname`

```
256 \newcommand\local@monthname{\ifcase\month\or
257   Janeiro\or Fevereiro\or Mar{\c c}o\or Abril\or Maio\or Junho\or
258   Julho\or Agosto\or Setembro\or Outubro\or Novembro\or Dezembro\fi}
```

`\foreign@monthname`

```
259 \newcommand\foreign@monthname{\ifcase\month\or
260   January\or February\or March\or April\or May\or June\or
261   July\or August\or September\or October\or November\or December\fi}
```

`\place` Used to enter the place of defense.

```
262 \newcommand\place[3]{%
263   \renewcommand\local@cityname{#1}
264   \renewcommand\local@statename{#2}
265   \renewcommand\local@countryname{#3}
266 }
```

`\keyword`

```
267 \newcounter{keywords}
268 \newcommand\keyword[1]{%
269   \global\@namedef{K:\expandafter\the\c@keywords}{#1}
270   \global\addtocounter{keywords}{1}
271 }
```

`\frontmatter` Para os números de páginas do frontmatter e do mainmatter aparecerem na ficha catalográfica, utilizou-se uma referência. Assim, mesmo com uma main vazia, será necessário re-executar o L^AT_EX para obter as referências corretas.

```
272 \renewcommand\frontmatter{%
273   \cleardoublepage
274   \@mainmatterfalse
275   \pagenumbering{roman}
276   \thispagestyle{empty}
277   \setcounter{page}{2}
278   \makefrontpage
279   \clearpage
280   \pagestyle{plain}
281   \ifthenelse{\boolean{maledoc}}{\}\{\makecatalog}%
282 }
```

`\mainmatter`

```
283 \renewcommand\mainmatter{%
284   \immediate\write\@auxout{%
285     \string\newlabel{front:pageno}{\Roman{page}}{\page.\roman{page}}{}}
286   \cleardoublepage
287   \@mainmattertrue
288   \pagestyle{plain}
289   \pagenumbering{arabic}}
```

`\backmatter`

```
290 \renewcommand\backmatter{%
291   \if@openright
292     \cleardoublepage
293   \else
294     \clearpage
295   \fi}
296 %
```

`\maketitle`

```
297 \renewcommand\maketitle{%
298   \pagenumbering{alph}
299   \config@hypersetup
300   % Should we use this check?
301   \ifthenelse{\@examiner<\value{minexaminers}}{%
302     \ifthenelse{\boolean{isdraft}}{%
303       \ClassWarning{coppe}{Too few examiners for a \local@doctype}%
304     }{%
305       \ClassError{coppe}{%
306         Too few examiners for a \local@doctype}%
307       This value is regulated by the Academic Registry at COPPE/UFRJ.\MessageBreak
308       To disable this check, enable the draft option of the coppe class.}%
309     }%
310   }{}
311   \begin{titlepage}
```

```

312 \begin{flushleft}
313 \setlength\baselineskip{0pt}
314 \setlength\parskip{1mm}
315 \makebox[20mm][c]{%
316   \ifthenelse{\boolean{needbb}}{%
317     \includegraphics[bb = -1 -1 48 64]{minerva}}{%
318     \includegraphics{minerva}}}\par
319 \makebox[20mm][c]{\fontfamily{phv}\textbf{\small COPPE/UFRJ}}
320 \end{flushleft}
321 \begin{center}
322 \nohyphens{\MakeUppercase\local@title}\par
323 \vspace*{28mm}
324 \nohyphens{\@authname\ \@authsur}\par
325 \end{center}
326 \vspace*{16mm}
327 \begin{flushright}
328 \begin{minipage}{80mm}
329 \frontcover@maintext
330 \end{minipage}\par
331 \vspace*{7.5mm}
332 \begin{tabularx}{80mm}[b]{@{}l@{ }X@{}}
333   \local@advisorstring: & \nohyphens{\@adname\ \@adsur}\
334   \ifthenelse{\equal{\@coadname}{\@empty}}{\@empty}{%
335     & \nohyphens{\@coadname\ \@coadsur}\
336 \end{tabularx}\par
337 \end{flushright}
338 \vspace*{\fill}
339 \begin{center}
340 \local@cityname\par
341 \local@monthname\ de \number\year
342 \end{center}
343 \end{titlepage}
344 \global\let\maketitle\relax%
345 \global\let\and\relax

346 \newcommand\makefrontpage{%
347   \begin{center}
348     \sloppy\nohyphens{\MakeUppercase\local@title}\par
349     \vspace*{7mm}
350     {\@authname\ \@authsur}\par
351   \end{center}\par
352   \vspace*{4mm}
353   \frontpage@maintext
354   \vspace*{8mm}
355   \noindent\local@approvedname:\par
356   \begin{center}
357     \begin{flushright}
358       \vskip16p@ \baselineskip12pt
359       \eqparbox{signature@list}{\hrulefill}\
360       \eqparbox{signature@list}{\protect\centering%

```

```

361      \ \ \ \@adtitle\ \@adname\ \@adsurn, \@addegree\ \ \ }\\
362      \ifthenelse{\equal{\@coadname}{\@empty}}{\%}
363      \vskip26\p@ \baselineskip12pt
364      \eqparbox{signature@list}{\hrulefill}\\
365      \eqparbox{signature@list}{\protect\centering%
366      \ \ \ \@coadtitle\ \@coadname\ \@coadsurn, \@coaddegree\ \ \ }\\}
367      \count1=0
368      \@whilenum \count1<\@examiner \do {
369          \vskip26\p@ \baselineskip12pt
370          \eqparbox{signature@list}{\hrulefill}\\
371          \eqparbox{signature@list}{\protect\centering%
372          \ \ \ \csname S:\the\count1 \endcsname\ \ \ }\\
373          \advance\count1 by 1}
374  \end{flushright}
375  \end{center}
376  \vspace*{\fill}
377  \frontpage@bottomtext}

378 \newcommand\config@hypersetup{%
379 \begingroup
380 % changes to \toks@ and \count@ are kept local;
381 % it's not necessary for them, but it is usually the case
382 % for \count1, because the first ten counters are written
383 % to the DVI file, thus you got lucky because of PDF output
384 \toks@={}% in this special case not necessary
385 \count@=0 %
386 \@whilenum\count@<\value{keywords}\do{%
387     % * a keyword separator is not necessary,
388     %   if there is just one keyword
389     % * \csname K:\the\count@\endcsname must be expanded
390     %   at least once, to get rid of the loop depended \count@
391     \ifcase\count@ % same as \ifnum0=\count@
392         \toks@=\expandafter{\csname K:\the\count@\endcsname}%
393     \else
394         \toks@=\expandafter\expandafter\expandafter{%
395             \expandafter\the\expandafter\toks@
396             \expandafter;\expandafter\space
397             \csname K:\the\count@\endcsname
398         }%
399     \fi
400     \advance\count@ by 1 %
401 }%
402 \edef\x{\endgroup
403     \noexpand\hypersetup{%
404         pdfkeywords={\the\toks@}%
405     }%
406 }%
407 \x
408 \hypersetup{%
409     pdfauthor={\@authname\ \@authsurn},

```

```

410 pdftitle={\local@title},
411 pdfsubject={\local@doctype\ de \@degree\ em \local@deptname\ da COPPE/UFRJ},
412 pdfcreator={LaTeX with CoppeTeX toolkit},
413 breaklinks={true},
414 raiselinks={true},
415 pageanchor={true},
416 }}

```

`\makecatalog` When the document has illustrations, it is required to insert "il;'' between the number of pages of the textual part and the page dimension. We have created a label to flag the existence of lists of figures. It is checked to be undefined using the plain T_EX command `\@isundefined` [7].

```

417 \newcommand\makecatalog{%
418   \vspace*{\fill}
419   \begin{center}
420     \setlength{\fboxsep}{5mm}
421     \framebox[120mm][c]{\makebox[5mm][c]{%
422       \begin{minipage}[c]{105mm}
423         \setlength{\parindent}{5mm}
424         \noindent\sloppy\nohyphens\@authsur,
425         \nohyphens\@authname\par
426         \nohyphens{\local@title/\@authname\ \@authsur. -- \local@cityname:
427         UFRJ/COPPE, \number\year.}\par
428         \pageref{front:pageno},
429         \pageref{LastPage}
430         p.\@ifundefined{r@cat:lofflag}{\pageref{cat:lofflag}}{$29,7$cm.\par
431         % There is an issue here. When the last entry must be split between lines,
432         % the spacing between it and the next paragraph becomes smaller.
433         % Should we manually introduce a fixed space? But how could we know that
434         % a name was split?
435         \begin{tabularx}{100mm}[b]{@{}l@{ }X@{}}
436           \local@advisorstring: & \nohyphens{\@adname\ \@adsur}%
437           \ifthenelse{\equal{\@coadname}{\@empty}}{\@empty}{\\
438             & \nohyphens{\@coadname\ \@coadsur}}
439         \end{tabularx}\par
440         \nohyphens{\local@doctype\ ({\MakeLowercase\@degree})} --
441         UFRJ/COPPE/Programa de \local@deptname, \number\year.}\par
442         \bibname: p. \pageref{bib:begin} -- \pageref{bib:end}.\par
443         \count1=0
444         \count2=1
445         \nohyphens{\@whilenum \count1<\value{keywords} \do {%
446           \number\count2. \csname K:\the\count1 \endcsname.
447           \advance\count1 by 1
448           \advance\count2 by 1}
449         I. \@adsur, \@adname%
450         \ifthenelse{\equal{\@coadname}{\@empty}}{\@empty}{\emph{~et~al.}}.
451         II. \local@universityname, COPPE, Programa de \local@deptname.
452         III. T{\ i}tulo.}
453       \end{minipage}}

```

```

454 \end{center}
455 \vspace*{\fill}}

\dedication
456 \newcommand\dedication[1]{
457 \gdef\@dedic{#1}
458 \cleardoublepage
459 \vspace*{\fill}
460 \begin{flushright}
461 \begin{minipage}{60mm}
462 \raggedleft \it \normalsize \@dedic
463 \end{minipage}
464 \end{flushright}}

abstract This is a specialization of the abstract in the article standard class.
465 \newenvironment{abstract}{%
466 \clearpage
467 \thispagestyle{plain}
468 \abstract@toptext\par
469 \vspace*{8.6mm}
470 \begin{center}
471 \sloppy\nohyphens{\MakeUppercase\local@title}\par
472 \vspace*{13.2mm}
473 \@authname\ \@authsurn \par
474 \vspace*{7mm}
475 \local@monthname/\number\year
476 \end{center}\par
477 % Old style
478 % \vspace*{3mm}
479 \vspace*{\fill}
480 \noindent%
481 \begin{tabularx}{\textwidth}[b]{@{}l@{ }X@{}}
482 \local@advisorstring: & \nohyphens{\@adname\ \@adsurname}\\
483 \ifthenelse{\equal{\@coadname}{\@empty}}{\@empty}{\%
484 & \nohyphens{\@coadname\ \@coadsurn}\\}
485 \end{tabularx}\par
486 \vspace*{2mm}
487 \noindent\local@deptstring: \local@deptname\par
488 \vspace*{7mm}}{\vspace*{\fill}}

foreignabstract
489 \newenvironment{foreignabstract}{%
490 \clearpage
491 \thispagestyle{plain}
492 \begin{otherlanguage}{english}
493 \foreignabstract@toptext\par
494 \vspace*{8.6mm}
495 \begin{center}
496 \sloppy\nohyphens{\MakeUppercase\foreign@title}\par

```



```

497 \vspace*{13.2mm}
498 \@authname\ \@authsur \par
499 \vspace*{7mm}
500 \foreign@monthname/\number\year
501 \end{center}\par
502 % Old style
503 % \vspace*{3mm}
504 \vspace*{\fill}
505 \noindent%
506 \begin{tabularx}{\textwidth}[b]{@{}l@{ }X@{}}
507 \foreign@advisorstring: & \nohyphens{\@adname\ \@adsurn}\\
508 \ifthenelse{\equal{\@coadname}{\@empty}}{\}%
509 & \nohyphens{\@coadname\ \@coadsurn}\\
510 \end{tabularx}\par
511 \vspace*{2mm}
512 \noindent\foreign@deptstring: \foreign@deptname\par
513 \vspace*{7mm}}{\%
514 \end{otherlanguage}
515 \vspace*{\fill}
516 \global\let\@author\@empty
517 \global\let\@date\@empty
518 \global\let\foreign@title\@empty
519 \global\let\foreign@title\relax
520 \global\let\local@title\@empty
521 \global\let\local@title\relax
522 \global\let\author\relax
523 \global\let\author\relax
524 \global\let\date\relax}

```

\listoffigures

```

525 \renewcommand\listoffigures{%
526 \immediate\write\@auxout{%
527 \string\newlabel{cat:lofflag}{\@il. ;}{\@page.\roman{page}}{}}
528 \if@twocolumn
529 \@restonecoltrue\onecolumn
530 \else
531 \@restonecolfalse
532 \fi
533 \chapter*{\listfigurename}%
534 \addcontentsline{toc}{chapter}{\listfigurename}%
535 \@mkboth{\MakeUppercase\listfigurename}%
536 {\MakeUppercase\listfigurename}%
537 \@starttoc{lof}%
538 \if@restonecol\twocolumn\fi
539 }

```

\listoftables

```

540 \renewcommand\listoftables{%
541 \if@twocolumn

```

```

542     \@restonecoltrue\onecolumn
543     \else
544     \@restonecolfalse
545     \fi
546     \chapter*{\listtablename}%
547     \addcontentsline{toc}{chapter}{\listtablename}%
548     \@mkboth{%
549         \MakeUppercase\listtablename}%
550     {\MakeUppercase\listtablename}%
551     \@starttoc{lot}%
552     \if@restonecol\twocolumn\fi
553     }

```

\printlosymbols

```

554 \newcommand\printlosymbols{%
555 \renewcommand\glossaryname{\listsymbolname}%
556 \@input@{\jobname.los}}

```

\makelosymbols

```

557 \def\makelosymbols{%
558     \newwrite\@losfile
559     \immediate\openout\@losfile=\jobname.syx
560     \def\symb1{\@bsphack\beginingroup
561         \@sanitize
562         \@wrlos}\typeout
563     {Writing index of symbols file \jobname.syx}%
564     \let\makelosymbols\@empty
565 }
566 \@onlypreamble\makelosymbols

567 \AtBeginDocument{%
568 \@ifpackageloaded{hyperref}{%
569     \def\@wrlos#1#2{%
570         \protected@write\@losfile{%
571             {\string\indexentry{[#1] #2|hyperpage}{\thepage}}}%
572         \endgroup
573         \@esphack}}{%
574     \def\@wrlos#1#2{%
575         \protected@write\@losfile{%
576             {\string\indexentry{[#1] #2}{\thepage}}}%
577         \endgroup
578         \@esphack}}}

```

\printloabbreviations

```

579 \newcommand\printloabbreviations{%
580 \renewcommand\glossaryname{\listabbreviationname}%
581 \@input@{\jobname.lab}}

```

\makeloabbreviations

```

582 \def\makeloabbreviations{%
583   \newwrite\@labfile
584   \immediate\openout\@labfile=\jobname.abx
585   \def\abbrev{\@bsphack\beginingroup
586     \@sanitize
587     \@wrlab}\typeout
588   {Writing index of abbreviations file \jobname.abx}%
589   \let\makeloabbreviations\@empty
590 }
591 \onlypreamble\makeloabbreviations

592 \AtBeginDocument{%
593 \ifpackageloaded{hyperref}{%
594   \def\@wrlab#1#2{%
595     \protected@write\@labfile{%
596       {\string\indexentry{[#1] #2|hyperpage}{\thepage}}%
597     \endgroup
598     \@esphack}}{%
599   \def\@wrlab#1#2{%
600     \protected@write\@labfile{%
601       {\string\indexentry{[#1] #2}{\arabic{page}}}%
602     \endgroup
603     \@esphack}}}

604 \newdimen\bibindent%
605 \setlength\bibindent{1.5em}%
606 \renewenvironment{thebibliography}[1]%
607   {\chapter*{\bibname}%
608   \addcontentsline{toc}{chapter}{\bibname}%
609   \immediate\write\@auxout{%
610     \string\newlabel{bib:begin}{\{\}\arabic{page}}{\{page.\arabic{page}\}}}%
611   \list{\@biblabel{\@arabic{c@enumiv}}%
612     {\setlength{\labelwidth}{0ex}%
613     \setlength{\leftmargin}{9.0ex}%
614     \setlength{\itemindent}{-9.0ex}%
615     \advance\leftmargin\labelsep%
616     \@openbib@code%
617     \usecounter{enumiv}%
618     \let\p@enumiv\@empty%
619     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
620   \sloppy%
621   \clubpenalty4000%
622   \@clubpenalty \clubpenalty%
623   \widowpenalty4000%
624   \sfcode'\.\@m}%
625   {\def\@noitemerr%
626     {\@latex@warning{Empty 'thebibliography' environment}}%
627   \immediate\write\@auxout{%
628     \string\newlabel{bib:end}{\{\}\arabic{page}}{\{page.\arabic{page}\}}}%
629   \endlist}

```

```

630 \newenvironment{theglossary}{%
631   \if@twocolumn%
632     \@restonecoltrue\onecolumn%
633   \else%
634     \@restonecolfalse%
635   \fi%
636   \@mkboth{\MakeUppercase\glossaryname}%
637   {\MakeUppercase\glossaryname}%
638   \chapter*{\glossaryname}%
639   \addcontentsline{toc}{chapter}{\glossaryname}
640   \list{}
641   {\setlength{\listparindent}{0in}%
642     \setlength{\labelwidth}{1.0in}%
643     \setlength{\leftmargin}{1.5in}%
644     \setlength{\labelsep}{0.5in}%
645     \setlength{\itemindent}{0in}}%
646   \sloppy}%
647   {\if@restonecol\twocolumn\fi%
648 \endlist}
649 %
650 \renewenvironment{theindex}{%
651   \if@twocolumn
652     \@restonecolfalse
653   \else
654     \@restonecoltrue
655   \fi
656   \twocolumn[\@makeschapterhead{\indexname}]%
657   \@mkboth{\MakeUppercase\indexname}%
658   {\MakeUppercase\indexname}%
659   \thispagestyle{plain}\parindent\z@
660   \addcontentsline{toc}{chapter}{\indexname}
661   \parskip\z@ \@plus .3\p@\relax
662   \columnseprule \z@
663   \columnsep 35\p@
664   \let\item\@idxitem}
665   {\if@restonecol\onecolumn\else\clearpage\fi}
666 \newcommand\glossaryname{Glossary}
667 \newcommand\listabbreviationname{Lista de Abreviaturas}
668 \newcommand\listsymbolname{Lista de S{' i}mbolos}
669 %
670 \newcommand\local@advisorstring{Orientador}
671 \newcommand\foreign@advisorstring{Advisor}
672 \ifthenelse{\boolean{maledoc}}{%
673   \newcommand\local@approvedname{Aprovado por}%
674 }{%
675   \newcommand\local@approvedname{Aprovada por}%
676 }
677 \newcommand\foreign@approvedname{Approved by}
678 \newcommand\local@universityname{Universidade Federal do Rio de Janeiro}
679 \newcommand\local@deptstring{Programa}

```

```

680 \newcommand\foreign@deptstring{Department}
681 \newcommand\local@cityname{Rio de Janeiro}
682 \newcommand\local@statename{RJ}
683 \newcommand\local@countryname{Brasil}
684 %
685 \newcommand\frontcover@maintext{
686   \sloppy\nohyphens{\local@doctype\ de \@degreename\
687   \ifthenelse{\boolean{maledoc}}{apresentado}{apresentada}
688   ao Programa de P{\' o}s-gradua{\c c}{\~ a}o em \local@deptname,
689   COPPE, da \local@universityname, como parte dos requisitos
690   necess{\' a}rios {\' a} obten{\c c}{\~ a}o do t{\' i}tulo de
691   \local@degname\ em \local@deptname.}
692 }
693 %
694 \newcommand\frontpage@maintext{
695   \noindent {\MakeUppercase\local@doctype}
696   \ifthenelse{\boolean{maledoc}}{SUBMETIDO}{SUBMETIDA}
697   \sloppy\nohyphens{AO CORPO DOCENTE DO INSTITUTO ALBERTO LUIZ COIMBRA
698   DE P{\' O}S-GRADUA{\c C}{\~ A}O E PESQUISA DE ENGENHARIA (COPPE) DA
699   UNIVERSIDADE FEDERAL DO RIO DE JANEIRO COMO PARTE DOS REQUISITOS
700   NECESS{\' A}RIOS PARA A OBTEN{\c C}{\~ A}O DO GRAU DE
701   {\MakeUppercase\local@degname} EM CI{\^E}NCIAS EM}
702   {\MakeUppercase\local@deptname. \par}%
703 }
704 %
705 \newcommand\frontpage@bottomtext{%
706   \begin{center}
707     {\MakeUppercase{\local@cityname, \local@statename\ -- \local@countryname}}\par
708     {\MakeUppercase\local@monthname\ DE \number\year}
709   \end{center}%
710 }
711 %
712 \newcommand\abstract@toptext{%
713   \noindent Resumo \ifthenelse{\boolean{maledoc}}{do}{da}
714   \local@doctype\ \ifthenelse{\boolean{maledoc}}{apresentado}{apresentada}
715   \sloppy\nohyphens{\' a} COPPE/UFRJ como parte dos requisitos
716   necess{\' a}rios para a obten{\c c}{\~ a}o do grau de
717   \local@degname\ em Ci{\^ e}ncias (\@degree)}
718 }
719 \newcommand\foreignabstract@toptext{%
720   \noindent \sloppy\nohyphens{Abstract of \foreign@doctype\ presented to
721   COPPE/UFRJ as a partial fulfillment of the requirements for the
722   degree of \foreign@degname\ of Science (\@degree)}
723 }
724 %
725 \end{class}
726 \glossary
727 actual '='
728 quote '!'

```

```

729 level '>'
730 delim_0    ", p. "
731 lethead_flag 0
732 headings_flag 0
733 preamble
734 "\n\\begin{theglossary}\n  \\makeatletter"
735 postamble
736 "\n  \\end{theglossary}\n"
737 </glossary>

```

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