

# The `eda_thesis` package.

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## 1 Usage

### 1.1 Package Options

To switch language use babel package.

`msc`, `bsc`, `da`, `stua`, `ingp`,  
`ints`, `fp` Select type of thesis between master thesis (`msc`), bachelor thesis (`bsc`), Diplomarbeit (`da`), Studienarbeit (`stua`), Ingenieurpraxis (`ingp`), Forschungspraxis (`fp`), and internship report (`ints`). See also Table 1.

`outertitle` Generates a second title page before the main title page. This page can be printed on the shelf.

`twoside` Switches between different printing styles. In case both sides of a sheet of paper are used, select `twoside`, else select `oneside`.

### 1.2 Generation of title page

`\maketitle` The title page is generated by `\maketitle`. The fields of the title page are set by the commands listed in Table 1.

<code>\title</code>			
<code>\authors</code>			
<code>\issueDate</code>	Command	Description	Mandatory for thesis types
<code>\submissionDate</code>			
<code>\supervisor</code>	<code>\title{\&lt;title&gt;}</code>	Sets the title of the thesis.	all
<code>\address</code>	<code>\authors{\&lt;authors&gt;}</code>	Sets the list of author(s) of the thesis (usually one).	all
<code>\period</code>	<code>\issueDate{\&lt;day&gt;}{\&lt;month&gt;}{\&lt;year&gt;}</code>	Sets the date when the topic of the thesis was issued.	msc, bsc, da, stua
	<code>\submissionDate{\&lt;day&gt;}{\&lt;month&gt;}{\&lt;year&gt;}</code>	Sets the date of the final submission of the thesis.	msc, bsc, da, stua
	<code>\supervisor{\&lt;assistant&gt;}{\&lt;professor&gt;}</code>	Sets the names of the supervising assistant and supervising professor.	msc, bsc, da, stua (only professor)
	<code>\address{\&lt;address&gt;}</code>	Sets the address of the author(s).	
	<code>\period{\&lt;period&gt;}</code>	Sets the time span in which the work was done.	ints, ingp

Table 1: Command for setting the fields of the title page.

## 2 Implementation

Initialize Variables.

```

1
2 \newcommand{\edathesis@thesisname}{tbd Select thesis type}
3 \def\edathesis@topicIssued{}
4 \def\edathesis@submission{}
5 \def\edathesis@supervisor{}
6 \def\edathesis@profsupervisor{}
7 \def\edathesis@address{}
8 \def\edathesis@period{}
9 \newif\ifedathesis@outertitle
10 \edathesis@outertitlefalse
11 \newif\ifedathesis@twoside

```

Declare and process package options.

msc,bsc,da,stua,ints,ingp,fp Options for type of thesis.

```

12 \DeclareOption{msc}{
13     \renewcommand{\edathesis@thesisname}{Master Thesis}
14 \renewcommand{\edathesis@profsupervisor}{N.N.}
15 \renewcommand{\edathesis@topicIssued}{???.???.????}
16 \renewcommand{\edathesis@submission}{???.???.????}
17 }
18 \DeclareOption{bsc}{
19     \renewcommand{\edathesis@thesisname}{Bachelor Thesis}
20 \renewcommand{\edathesis@profsupervisor}{N.N.}
21 \renewcommand{\edathesis@topicIssued}{???.???.????}
22 \renewcommand{\edathesis@submission}{???.???.????}
23 }
24 \DeclareOption{da}{
25     \renewcommand{\edathesis@thesisname}{Diplomarbeit}
26 \renewcommand{\edathesis@profsupervisor}{N.N.}
27 \renewcommand{\edathesis@topicIssued}{???.???.????}
28 \renewcommand{\edathesis@submission}{???.???.????}
29 }
30 \DeclareOption{stua}{
31     \renewcommand{\edathesis@thesisname}{Studienarbeit}
32 \renewcommand{\edathesis@profsupervisor}{N.N.}
33 \renewcommand{\edathesis@topicIssued}{???.???.????}
34 \renewcommand{\edathesis@submission}{???.???.????}
35 }
36 \DeclareOption{ingp}{
37     \renewcommand{\edathesis@thesisname}{Bericht zur Ingenieurpraxis}
38 \renewcommand{\edathesis@profsupervisor}{N.N.}
39 \renewcommand{\edathesis@period}{???.???.???? - ???.???.????}
40 }
41 \DeclareOption{fp}{
42     \renewcommand{\edathesis@thesisname}{Bericht zur Forschungspraxis}
43 \renewcommand{\edathesis@profsupervisor}{N.N.}

```

```

44 \renewcommand{\edathesis@period}{??.??.???? - ??.??.????}
45 }
46 \DeclareOption{ints}{
47     \renewcommand{\edathesis@thesisname}{Internship Report}
48 \renewcommand{\edathesis@period}{??.??.???? - ??.??.????}
49 }

outertitle Option second title page.
50 \DeclareOption{outertitle}{
51     \edathesis@outertitletrue
52 }

onside, twoside Options for one-sided and two-sided printing.
53 \DeclareOption{twoside}{
54     \edathesis@twosidetrue
55 }
56 \DeclareOption{oneside}{
57     \edathesis@twosidefalse
58 }

Default option handling, setting default options, process options.
59 \DeclareOption*{%
60     \ClassWarning{eda_thesis}{Unknown option ‘\CurrentOption’; Passing down to screpr}%
61 \PassOptionsToClass{\CurrentOption}{screpr}
62 }
63 \ExecuteOptions{twoside}
64 \ProcessOptions

Load base class and required packages. Configure them.
65 \LoadClass[openright,abstracton,parskip,bibtoc,pointednumbers,smallheadings,DIV13]{screpr}
66
67 \RequirePackage{tumcdTitlePage}
68 \pagestyle{headings}
69
70 \KOMAOptions{headinclude=true,fontsize=11pt}
71 \ifedathesis@twoside
72 \KOMAOptions{twoside=true}
73 \fi
74 \recalctypearea
75 \DeclareGraphicsRule{.fig.pdf}{pdf}{*}{}
76 \DeclareGraphicsRule{.svg.pdf}{pdf}{*}{}
77
78 \subtitle{\edathesis@thesisname}

\maketitle Title page generation.
79 \let\edathesis@tumcd@maketitle\maketitle
80 \renewcommand{\maketitle}{
81     \ifedathesis@outertitle
82         \edathesis@tumcd@maketitle
83         \cleardoubleemptypage

```

```

84     \fi
85     \titletext{
86 \setcounter{page}{1}
87     \vspace*{2cm}\\
88     \hspace*{-2.5mm}\begin{tabular}{ll}
89         \if\edathesis@supervisor\empty \else \tumcd@lang{Betreuer}{Supervisor}: & \edath
90         \if\edathesis@profsupervisor\empty \else \tumcd@lang{Betreuender Hochschullehrer}
91         \ifx\edathesis@topicIssued\empty \else \tumcd@lang{Ausgabe des Themas}{Topic iss
92         \ifx\edathesis@submission\empty \else \tumcd@lang{Abgabedatum}{Date of submissi
93 \ifx\edathesis@period\empty \else \tumcd@lang{Durchführungszeitraum}{Working period}: & \edath
94     \end{tabular}
95     \vspace*{2cm}\\
96 \typeout{addr '\edathesis@address' empty '\empty'}
97 \if\edathesis@address\empty \else
98     \noindent\tumcd@authors\\
99     \noindent\edathesis@address\\[1cm]
100 \fi
101 }
102 \edathesis@tumcd@maketitle
103 \cleardoubleemptypage
104 }

\issueDate
105 \newcommand{\issueDate}[3]{\renewcommand{\edathesis@topicIssued}{#1.#2.#3}}

\submissionDate
106 \newcommand{\submissionDate}[3]{\renewcommand{\edathesis@submission}{#1.#2.#3}}

\supervisor
107 \newcommand{\supervisor}[2]{
108     \renewcommand{\edathesis@supervisor}{#1}
109     \renewcommand{\edathesis@profsupervisor}{#2}
110 }

\address
111 \newcommand{\address}[1]{\renewcommand{\edathesis@address}{#1}}

\period
112 \newcommand{\period}[1]{\renewcommand{\edathesis@period}{#1}}

113 \AtBeginDocument{
114 \abovedisplayskip=16.5pt plus 3pt minus 6pt
115 \abovedisplayshortskip=11pt plus 3pt minus 6pt
116 \belowdisplayskip=16.5pt plus 3pt minus 6pt
117 \belowdisplayshortskip=16.5pt plus 3pt minus 6pt
118 }

```