

ueaassig v3.01: L^AT_EX 2_ε Class for Writing UEA Exam Sheets

Nicola L.C. Talbot

School of Computing Sciences
University of East Anglia
Norwich, Norfolk
NR4 7TJ, United Kingdom.

<http://theoval.cmp.uea.ac.uk/~nlct/>

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1 Introduction

This is the documentation for ueaassig, a class file for typesetting assignment sheets.

1.1 Class Options

In addition to the standard options that can be passed to the article class file, the following options are also available:

times use Times/Helvetica/Courier fonts

notimes use Computer Modern fonts

14pt 14pt normal font size

17pt 17pt normal font size

20pt 20pt normal font size

The defaults are: 12pt, a4paper, times. If one of the large font sizes are used (14pt, 17pt or 20pt) the extarticle class file will be loaded, otherwise the article class file will be loaded.

1.2 Title Page Information

`titleinfo` The title page information should be specified inside the `titleinfo` environment at the start of the document. Within this environment you may use the following commands:

`\unit` `\unit{unit title}`

This specifies the unit title. For example:

```
\unit{CMPS-1A4Y}
```

`\title` `\title{assignment title}`

This specifies the assignment title. For example:

```
\title{Laboratory Exercise 1 --- Getting Started}
```

`\date` `\date{date set}`

This specifies the date the assignment is set.

`\assignvalue` `\assignvalue{value}`

This specifies the percentage value of the assignment. For example, if the assignment has a value of 20%:

```
\assignvalue{20}
```

`\setby` `\setby{name}`

This specifies who set the assignment.

`\checkedby` `\checkedby{name}`

This specifies who checked the assignment.

`\aim` `\aim{assignment aims}`

This specifies the assignment aims. Within the argument of this command, use:

`\subjectspecific`

```
\subjectspecific{<information>}
```

to add the subject specific aims and

`\transferable`

```
\transferable{<information>}
```

to add the transferable skills information.

`\learning`

```
\learning{<learning outcomes>}
```

This specifies the learning outcomes. As with `\aim`, the argument should include `\subjectspecific` and/or `\transferable`.

`\criteria`

```
\criteria{<assessment criteria>}
```

This specifies the assessment criteria.

1.3 Assignment Details

`assignment` After the `titleinfo` environment (described above), the description of the assignment should follow in the `assignment` environment. For example:

```
\begin{assignment}
  This is the description of the assignment.
```

```

  Your task is to write an application that's rather clever and
  requires a lot of imagination and talent.
```

```
\end{assignment}
```

`guidelines` The general guidelines should be specified in the `guidelines` environment. For example:

```
\begin{guidelines}
  The application must be:
  \begin{itemize}
    \item Clever
    \item Imaginative
  \end{itemize}
```

```

  Please read carefully the submission guidelines below.
\end{guidelines}
```

`assessment` The assessment information should be specified in the `assessment` environment. `marksawarded` Within this environment you can use the `marksawarded` environment. This should contain a series of

`\submark` `\submark{<mark>}{<information>}`

to indicate the breakdown of marks for the assignment. For example:

```
\begin{assessment}
  \begin{marksawarded}
    \submark{10}{Including comments in the code}
    \submark{80}{Writing working code}
    \submark{10}{Writing documentation}
  \end{marksawarded}
\end{assessment}
```

1.4 Submission Procedure, Deadlines and Plagiarism

`submission` At the end of the document, you should use the submission environment to add the submission details. For example:

```
\begin{submission}
  Write all the files comprising the application to a CD or DVD and
  test that it works on one of the PC lab computers. Write your
  student number on the CD or DVD.
```

Print an assignment cover sheet from your portal.

Attach your written work and the CD or DVD (in a suitable cover) to the cover sheet.

```
\end{submission}
```

At the end of this environment, boilerplate text about deadlines and plagiarism will be inserted.

1.5 Example Document

```
\documentclass{ueaassig}
```

```
\begin{document}
```

```
% Title page information:
```

```
\begin{titleinfo}
  \unit{CMPS-1A4Y}
  \title{Laboratory Exercise 1 --- Getting Started}
  \date{Monday of week 2}
  \submissiondate{Friday of week 3}
  \returndate{Friday of week 4}
  \setby{Dr Some One}
  \checkedby{Dr Ann Other}
  \assignvalue{20}
```

```
% Assignment aim
```

```

\aim{%
  \subjectspecific{Gain experience doing something or other}
  \transferable{Some skill or other}
}

% What the student will have learnt by completing the exercise

\learning{%
  \subjectspecific{%
    The ability to do something.

    To gain experience doing something else}
}

% The assessment criteria

\criteria{%
  A working solution.

  The use of clear, readable code.
}
\end{titleinfo}

% Description of the assignment:

\begin{assignment}
  This is the description of the assignment.

  Your task is to write an application that's rather clever and
  requires a lot of imagination and talent.
\end{assignment}

% General guidelines

\begin{guidelines}
  The application must be:
  \begin{itemize}
    \item Clever
    \item Imaginative
  \end{itemize}

  Please read carefully the submission guidelines below.
\end{guidelines}

% Assessment
\begin{assessment}
% Breakdown of how marks are awarded:
\begin{marksawarded}
  \submark{10}{Including comments in the code}

```

```

    \submark{80}{Writing working code}
    \submark{10}{Writing documentation}
\end{marksawarded}
\end{assessment}

% Submission procedure, deadlines and plagiarism:

\begin{submission}
Write all the files comprising the application to a CD or DVD and
test that it works on one of the PC lab computers. Write your
student number on the CD or DVD.

Print an assignment cover sheet from your portal.

Attach your written work and the CD or DVD (in a suitable cover)
to the cover sheet.
\end{submission}
\end{document}

```

2 The Code

2.1 Class declaration and options

This class requires $\text{\LaTeX}2\epsilon$:

```
1 \NeedsTeXFormat{LaTeX2e}
```

Identify this class and version:

```
2 \ProvidesClass{ueaassig}[2012/01/15 3.01 (NLCT)]
```

Declare class options, Font sizes:

```
3 \newcommand*{\setptsize}[1]{\def\assign@ptsize{#1}}
4 \setptsize{12}
5 \DeclareOption{10pt}{\setptsize{10}}
6 \DeclareOption{11pt}{\setptsize{11}}
7 \DeclareOption{12pt}{\setptsize{12}}
8 \DeclareOption{14pt}{\setptsize{14}}
9 \DeclareOption{17pt}{\setptsize{17}}
10 \DeclareOption{20pt}{\setptsize{20}}
```

Paper size (defaults to A4) but can use A3 for large versions:

```
11 \newcommand*{\setassignpapersize}[1]{\def\@assign@paper@size{#1paper}}
12 \setassignpapersize{a4}
13 \DeclareOption{a4paper}{\setassignpapersize{a4}}
14 \DeclareOption{a3paper}{\setassignpapersize{a3}}
```

`\ifusetimes` Define switch to determine whether to use Times/Helvetica/Courier combination instead of Computer Modern.

```
15 \newif\ifusetimes
16 \usetimestrue
```

Now define class options to set this:

```
17 \DeclareOption{times}{\usetimestrue}
18 \DeclareOption{notimes}{\usetimesfalse}
```

Process options

```
19 \ProcessOptions
```

Define default option list to pass to article:

```
20 \edef\@assign@art@opts{\@assign@paper@size,\assign@ptsize pt}
```

Load article or extarticle class as required:

```
21 \ifnum\assign@ptsize>12
22   \expandafter\LoadClass\expandafter[\@assign@art@opts]{extarticle}
23 \else
24   \expandafter\LoadClass\expandafter[\@assign@art@opts]{article}
25 \fi
```

Load required packages:

```
26 \RequirePackage{amsmath}
27 \RequirePackage{calc}
28 \RequirePackage{url}
29 \RequirePackage{parskip}
```

Set up text-area:

```
30 \setlength{\textwidth}{7.0in}
31 \addtolength{\hoffset}{-1.0in}
32 \addtolength{\voffset}{-1.0in}
33 \addtolength{\textheight}{1in}
```

Load Times/Helvetica/Courier combination if required:

```
34 \ifusetimes
35   \RequirePackage{lmodern}
36   \RequirePackage{mathptmx}
37   \RequirePackage[scaled=.92]{helvet}
38   \RequirePackage{courier}
39 \fi
```

Load flowfram package and set up frames:

```
40 \RequirePackage{flowfram}
```

Define frames for title page:

```
41 \newflowframe[1]{\textwidth}{\textheight}{0pt}{0pt}[title]
```

Define frame for assignment details:

```
42 \newflowframe* [>1]{\textwidth}{\textheight}{0pt}{0pt}[details]
```

Define frame for submission procedure and plagiarism:

```
43 \newflowframe[none]{\textwidth}{\textheight}{0pt}{0pt}[submission]
```

Define page style:

```
44 \newcommand*{\ps@ueaassign}{%
45   \renewcommand*{\@oddhead}{}%
46   \renewcommand*{\@evenhead}{%}
```

```

47 \renewcommand*{\@oddfoot}{%
48 \hfill Page \thepage\space of \pageref{pg:lastpage}\hfill
49 \llap{\textbf{\@submissionoverleaf}}}%
50 \renewcommand*{\@evenfoot}{%
51 \hfill Page \thepage\space of \pageref{pg:lastpage}\hfill
52 \rlap{\textbf{\@submissionoverleaf}}}%
53 }
54 \pagestyle{ueaassig}

\@submissionoverleaf Write "Submission instructions overleaf" when necessary.
55 \newcommand*{\@submissionoverleaf}{%

titleinfo All titling information must be placed in or before this environment.
56 \newenvironment{titleinfo}%
57 {%
58 \gdef\@no@titlefound{%
59 }%
60 {%
61 \maketitle
62 \@disable@titlecommands
63 }

\@no@titlefound Produce an error message to say the titleinfo environment is missing.
64 \newcommand*{\@no@titlefound}{%
65 \ClassError{ueaassig}{No 'titleinfo' environment found}%
66 {You must use the 'titleinfo' environment to specify
67 the information for the title page}%
68 }

\@disable@titlecommands Disables commands that provide information for the title page.
69 \newcommand*{\@disable@titlecommands}{%

\@title@command Identifies command as one that provides information for the title page.
70 \newcommand*{\@title@command}[1]{%
71 \expandafter\toks@\expandafter{\@disable@titlecommands}%
72 \edef\@disable@titlecommands{the\toks@
73 \noexpand\gdef\noexpand#1{\noexpand\@titlecommand@err{\noexpand#1}}%
74 }%
75 }

\@titlecommand@err Produce error message that command may only be used in titleinfo environment.
76 \newcommand*{\@titlecommand@err}[1]{%
77 \ClassError{ueaassig}{Command \string#1\space may only be used in
78 or before 'titleinfo' environment}{%}
79 }

\@university Provide command to set the university name:
80 \newcommand{\university}[1]{\renewcommand{\@university}{#1}}
81 \newcommand{\@university}{University of East Anglia}
82 \@title@command\university

```


`\school` Provide command to set the school name:

```

83 \newcommand{\@school}{School of Computing Sciences}
84 \newcommand{\school}[1]{\renewcommand{\@school}{#1}}
85 \@title@command\school

```

`\unit` Provide command to set the unit:

```

86 \newcommand{\@unit}{\ClassError{ueaassign}{Missing \string\unit}{You
87 need to specify the unit name and code using \string\unit{name}}}
88 \newcommand{\unit}[1]{\renewcommand{\@unit}{#1}}
89 \@title@command\unit

```

`\submission` Provide command to specify the submission date:

```

90 \newcommand{\@submissiondate}{}
91 \newcommand{\submissiondate}[1]{\renewcommand{\@submissiondate}{#1}}
92 \@title@command\submissiondate

```

`\returndate` Provide command to specify the return date:

```

93 \newcommand{\@returndate}{}
94 \newcommand{\returndate}[1]{\renewcommand{\@returndate}{#1}}
95 \@title@command\returndate

```

`\assignvalue` Provide command to specify the assignment value:

```

96 \newcommand{\@assignvalue}{}
97 \newcommand{\assignvalue}[1]{\renewcommand{\@assignvalue}{#1}}
98 \@title@command\assignvalue

```

`\setby` Provide command to specify who the assignment is set by:

```

99 \newcommand{\@setby}{}
100 \newcommand{\setby}[1]{\renewcommand{\@setby}{#1}}
101 \@title@command\setby

```

`\checkedby` Provide command to specify who the assignment is checked by:

```

102 \newcommand{\@checkedby}{}
103 \newcommand{\checkedby}[1]{\renewcommand{\@checkedby}{#1}}
104 \@title@command\checkedby

```

`\aim` Provide command to specify aims. This should include commands such as `\subjectspecific` and `\transferable`

```

105 \newcommand{\@aim}{\rule{0pt}{20pt}}
106 \newcommand{\aim}[1]{\renewcommand{\@aim}{#1}}
107 \@title@command\aim

```

`\learning` Provide command to specify the learning outcomes. This should include commands such as `\subjectspecific` and `\transferable`

```

108 \newcommand{\@learning}{\rule{0pt}{10pt}}
109 \newcommand{\learning}[1]{\renewcommand{\@learning}{#1}}
110 \@title@command\learning

```

`\criteria` Provide command to specify assessment criteria.

```

111 \newcommand{\@criteria}{\rule{0pt}{20pt}}
112 \newcommand{\criteria}[1]{%
113   \renewcommand{\@criteria}{#1}%
114 }
115 \@title@command\criteria

```

`\subjectspecific` Specify subject specific details:

```

116 \newcommand{\subjectspecific}[1]{%
117   \item[\mdseries\itshape Subject specific]\mbox{} \newline#1%
118   \par\vskip\baselineskip
119 }
120 \@title@command\subjectspecific

```

`\transferable` Specify transferable skills details:

```

121 \newcommand{\transferable}[1]{%
122   \item[\mdseries\itshape Transferable skills]\mbox{} \newline#1%
123   \par\vskip\baselineskip
124 }
125 \@title@command\transferable

```

`\proglabel` Label used by programme environment.

```

126 \newcommand{\proglabel}{Listing}

```

`programme` Counter used by programme environment.

```

127 \newcounter{programme}

```

`programme` Simple environment to typeset computer code. For a more sophisticated environment use the listings package.

```

128 \newenvironment{programme}[1]{%
129   \refstepcounter{programme}%
130   \def\@programmecap{#1}%
131   \begin{ttfamily}%
132 }%
133 {%
134   \end{ttfamily}\par
135   \begin{center}
136     \proglabel\ theprogramme\ : \@programmecap
137   \end{center}%
138 }

```

`assignment` Environment containing the description of the assignment.

```

139 \newenvironment{assignment}{%
140   \section*{Description of the Assignment}%
141 }%
142 {%
143 }

```

`guidelines` Environment containing the description of the general guidelines.

```

144 \newenvironment{guidelines}{%
145 \section*{General Guidelines}%
146 }%
147 {%
148 }

```

`assessment` Environment containing the assessment information.

```

149 \newenvironment{assessment}{%
150 \section*{Assessment}%
151 }%
152 {%
153 }

```

`marksawarded` Environment containing the breakdown of how the marks are awarded.

```

154 \newenvironment{marksawarded}{%
155 \subsection*{Marks will be awarded as follows}%
156 \def\submark##1##2{\item[##1\%]##2}%
157 \begin{description}%
158 }%
159 {%
160 \end{description}%
161 }

```

`\latetabwidth` Length for the late table column width.

```

162 \newlength\latetabwidth

```

`submission` Environment containing the submission procedure.

```

163 \newenvironment{submission}{%
164 \def\@submissionoverleaf{Submission instructions overleaf.}%
165 \edef\@set@frames{%
166 \noexpand\setflowframe*{details}{pages={\number\c@page}}%
167 \noexpand\setflowframe*{submission}{pages={>\number\c@page}}%
168 }%
169 \@set@frames
170 \par
171 \clearpage
172 \def\@submissionoverleaf{}%
173 \section*{Submission Procedure}%
174 }%
175 {%
176 \postsubmissiontext
177 \subsection*{Deadlines}%
178 Coursework should be submitted before \textbf{23:59} on the
179 deadline day. Work is to be submitted via the Hub drop boxes
180 up to \textbf{22:00} in the LTS Hub, and there will be a late
181 box in the Library for submissions between \textbf{22:00} and
182 \textbf{midnight}.\par
183 If coursework is handed in after the deadline day or an agreed

```

```

184 extension:\par
185 {\centering
186 \setlength\latetabwidth{0.5\linewidth-2\tabcolsep-2\arrayrulewidth}%
187 \begin{tabular}{|p{\latetabwidth}|p{\latetabwidth}|}
188 \hline
189 \strut
190 \bfseries Work submitted & \bfseries Marks deducted\\\hline
191 \strut On the day following the due date &
192 10 marks\\\hline
193 \strut On either the 2nd or 3rd day after the due date &
194 20 marks\\\hline
195 \strut On the 4th day after the due date and before the 20th day
196 after the due date &
197 All the marks the work merits if submitted on time (i.e.\ no
198 marks awarded)\\\hline
199 \strut After 20 working days &
200 Work will not be marked and a mark of zero will be entered
201 \\ \hline
202 \end{tabular}
203 \par
204 }%
205 All extension requests will be managed through the LTS Hub. A
206 request for an extension to a deadline for the submission of work
207 for assessment should be submitted by the student to the appropriate
208 Learning and Teaching Service Hub, prior to the deadline, on a
209 University Extension Request Form accompanied by appropriate
210 evidence. Extension requests will be considered by the appropriate
211 Learning and Teaching Service Manager in those instances where
212 \textbf{(a)} acceptable extenuating circumstances exist and
213 \textbf{(b)} the request is submitted before the deadline. All other
214 cases will be considered by a Coursework Coordinate in \textbf{CMP}.
215 \par
216 \fbox{%
217 \begin{minipage}{\linewidth-\fboxsep}%
218 \textbf{Plagiarism:} Plagiarism is the copying of close
219 paraphrasing of published or unpublished work, including
220 the work of another student; without due acknowledgement.
221 Plagiarism is regarded a serious offence by the University,
222 and all cases will be investigated. Possible consequences
223 of plagiarism include deduction of marks and disciplinary
224 action, as detailed by UEA's Policy on Plagiarism and
225 Collusion.
226 \end{minipage}%
227 }%
228 \label{pg:lastpage}%
229 }

```

\postsubmission\text Text that comes at the end of the submission information.

```

230 \newcommand{\postsubmission\text}{%
231 \par

```

232 Written coursework should be submitted by following the standard
 233 CMP practice. Students are advised to refer to the Guidelines and
 234 Hints on Written Work in CMP
 235 ([\url{http://www.uea.ac.uk/cmp/links/Reports}](http://www.uea.ac.uk/cmp/links/Reports)).
 236 }

`\maketitle` Redefine how to format the title page.

```

237 \renewcommand\maketitle{%
238   \thispagestyle{empty}%
239   \begin{bfseries}\large
240     \noindent COURSEWORK ASSIGNMENT \hfill
241     \begin{tabular}[t]{r}
242       \MakeUppercase \@university\\
243       \@school
244     \end{tabular}\\
245     \begin{tabular}{@{}l}
246       UNIT : & \mdseries \@unit\\
247       ASSIGNMENT TITLE : & \mdseries \@title
248     \end{tabular}
249     \par\vskip20pt
250     \noindent
251     \begin{tabular}{@{}l@{\quad}l}
252       DATE SET & \multicolumn{2}{@{}l}{\mdseries \@date}\\
253       DATE OF SUBMISSION & \multicolumn{2}{@{}l}{\mdseries \@submissiondate}\\
254       RETURN DATE & \multicolumn{2}{@{}l}{\mdseries \@returndate}\\
255       ASSIGNMENT VALUE & \mdseries \@assignvalue\\
256       SET BY & \mdseries \@setby & SIGNED:\\
257       CHECKED BY & \mdseries \@checkedby & SIGNED:
258     \end{tabular}
259   \end{bfseries}\par
260   \vskip\baselineskip
261   \noindent
262   \fbox{%
263     \begin{minipage}{\linewidth-2\fbboxsep}
264       \textbf{Aim:}%
265       \par\vskip\baselineskip
266       \begin{description}
267         \@aim
268       \end{description}
269       \textbf{Learning outcomes:}%
270       \par\vskip\baselineskip
271       \begin{description}
272         \@learning
273       \end{description}
274       \textbf{Assessment criteria:}%
275       \par\vskip\baselineskip
276       \begin{description}
277         \item\hskip\leftmargin\hskip-.5em\@criteria
278       \end{description}
279     \end{minipage}

```

```
280 }%  
281 \clearpage  
282 }
```

At the end of the document issue no title found error if necessary:

```
283 \AtEndDocument{\@no@titlefound}
```

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the definition.

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