The semesterplanner-Package

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Abstract

This package encapsulates several useful environments for a printable semester plan. It includes a timetable (which is using the schedule-Package) as well as appointments, deadlines and exams.

While creating my own plan I thought that it could come handy for somebody else, so I extracted the code into a \LaTeX-package.

This package requires color, tikz, schedule and fontawesome. Furthermore documents need to be compiled with LuaLaTeX.

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1 Environments

1.1 Timetable

1.1.1 Usage

With the `timetable`-environment you can create a timetable based on the `schedule`-package. Inside you use the following commands, each of which take the same range of arguments:

\lecture, \seminar, \meeting, \officehour, \tutorial

The syntax is as follows:

\lecture {Course name} {Lecturer} {Room} {Day} {Time} {Priority}

- **Course name.** The name of the course.
- **Lecturer.** The name of the lecturer.
- **Room.** The room, where the course takes place. As this package was created during a time, where courses were held online, you can also insert commands for online platforms. See → Online Platforms
- **Day.** The day when the course takes place. Must be exactly M, T, W, Th, F.
- **Time.** The time when the course takes place. Must be exactly in the format \( hh:mm-hh:mm \).
- **Priority.** The priority of the course. See → Priority

1.1.2 Change colors

If you want to change the colors of the panels, you can simply redefine them with \definecolor. The name of the color matches the name of the command of which you want to change the color. For example:

\definecolor {lecture} {rgb} {0, 0, 0}

makes all panels of lectures black.

1.2 Legend

Inside the `legend`-environment you can use the `\ttlegend`-command to add a legend entry for your timetable. The syntax is as follows:

\ttlegend {Color} {Description}

- **Color.** The color the legend entry belongs to.
- **Description.** Self-explaining.

1.3 Appointments

1.3.1 Usage

Inside the `appointments`-environment you can use the `\appointment`-command to add an appointment to the list. The syntax is as follows:

\appointment {Date} {Time} {Course} {Description} {Room/Platform} {Priority}

- **Date, Time.** When the appointment is scheduled. The two arguments do not need to follow a specific format.
- **Course.** The course the appointment belongs to.
- **Description.** A short description of the appointment
- **Room/Platform.** Where the appointment is scheduled. You can also insert an online-platform-command here (see \rightarrow Online Platforms).
- **Priority.** The priority of the appointment. See \rightarrow Priority

Note that \texttt{appointment} only works in the appropriate environment.

### 1.3.2 Arguments

This environment takes one optional argument, namely the title of the “room”-column. If nothing is else set, it will be “Room”.

### 1.4 Deadlines

This environment is similar to the \texttt{appointment}-environment. Inside, you can use the \texttt{deadline}-command to add deadlines to the list.

\begin{verbatim}
\texttt{deadline \{Date\} \{Course\} \{Description\} \{Priority\}}
\end{verbatim}

### 1.5 Exams

This environment is similar to two above. Inside, you can use the \texttt{exam}-command to add exams to the list.

\begin{verbatim}
\texttt{exam \{Date\} \{Time\} \{Course\} \{Type\}}
\end{verbatim}

- **Date, Time, Course.** As before.
- **Type.** The type of the exam. See \rightarrow Exam Types
2 User Commands

Most of the following commands make use of the `fontawesome`-package.

2.1 Priority

There are 5 different types of priority you can display with this package:

- No priority \pnone
- Low priority \plow
- Medium priority \pmid
- High priority \phigh
- Mandatory \pmandatory

They are theoretically usable everywhere, but primarily intended for the usage in the `appointments`- and `timetable`-environments.

2.2 Online Platforms

At the moment there are 3 different types of online platform you can display with this package:

- Microsoft Teams \teams
- Zoom \zoom
- Youtube \youtube

There will likely be more to be added. Alternatively you can write out the platform you wish.

2.3 Exam Types

At the moment there are 2 different types exam types you can display with this package:

- Written exam \written
- Oral exam \oral

2.4 Misc

There are other little helpful commands you can use as you wish.

- To be announced \tba
- To be determined \tbd
3 Examples

3.1 Timetable

\begin{timetable}
\lecture{Software Engineering}{M}{08:30−10:00}{phigh}
\tutorial{Numerik I}{M}{16:15−17:45}{pmid}
\officehour{Software Engineering}{T}{08:30−10:00}{phigh}
\lecture{Numerik I}{T}{10:15−11:45}{pmid}
\meeting{Tutor Meeting}{T}{14:00−15:00}{phigh}
\lecture{Numerik I}{Th}{14:15−15:45}{pmid}
\tutorial{MfN I}{F}{10:15−11:45}{}
\seminar{Machine Learning}{F}{12:15−13:45}{pmandatory}
\end{timetable}

\begin{timetable}
\begin{array}{cccccc}
\hline
\text{Time} & \text{Monday} & \text{Tuesday} & \text{Wednesday} & \text{Thursday} & \text{Friday} \\
\hline
8:00 & \text{Software Engineering} & \text{Software Engineering} & \text{} & \text{} & \text{} \\
9:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
10:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
11:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
12:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
13:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
14:00 & \text{Tutor Meeting} & \text{} & \text{} & \text{} & \text{} \\
15:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
16:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
17:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
18:00 & \text{} & \text{} & \text{} & \text{} & \text{} \\
\end{array}
\end{timetable}
3.2 Legend
\begin{legend}
\ttlegend {lecture} {Lecture}
\ttlegend {tutorial} {Tutorial}
\ttlegend {meeting} {Meeting}
\ttlegend {seminar} {Seminar}
\ttlegend {officehour} {Office Hour}
\end{legend}

3.3 Appointments
\begin{appointments}[Platf.]
\appointment {09.11.2020} {10:15 - 11:45} {Seminar} {Kickoff-Meeting} {\teams}
{\pmandatory}
\end{appointments}

\begin{table}[h]
\centering
\begin{tabular}{lllll}
\hline
\textbf{Date} & \textbf{Time} & \textbf{Course} & \textbf{Description} & \textbf{Platf.} & \textbf{Prio.} \\
\hline
09.11.2020 & 10:15 - 11:45 & Seminar & Kickoff-Meeting & \blue & \green\red\yellow\blue\purple
\hline
\end{tabular}
\end{table}

3.4 Deadlines
\begin{deadlines}
\deadline {01.01.2021} {Seminar} {Hand in write-up} {\phigh}
\end{deadlines}

\begin{table}[h]
\centering
\begin{tabular}{llll}
\hline
\textbf{Date} & \textbf{Course} & \textbf{Description} & \textbf{Prio.} \\
\hline
01.01.2021 & Seminar & Hand in write-up & \black\red
\hline
\end{tabular}
\end{table}

3.5 Exams
\begin{exams}
\exam {04.03.2021} {09:00 - 12:00} {Analysis I} {\written}
\exam {20.03.2021} {14:00 - 14:30} {ICL} {\oral}
\end{exams}

\begin{table}[h]
\centering
\begin{tabular}{llll}
\hline
\textbf{Date} & \textbf{Time} & \textbf{Course} & \textbf{Type} \\
\hline
04.03.2021 & 09:00 - 12:00 & Analysis I & \blue\green\red
20.03.2021 & 14:00 - 14:30 & ICL & \black\red
\hline
\end{tabular}
\end{table}