The `semesterplanner`-Package

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Abstract

This package encapsules 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`.

Contents

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:

$$\text{\textbackslash lecture, \textbackslash seminar, \textbackslash meeting, \textbackslash officehour, \textbackslash tutorial}$$

The syntax is as follows:

$$\text{\textbackslash lecture \{Course name\} \{Lecturer\} \{Room\} \{Day\} \{Time\} \{Priority\}}$$

- `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:

$$\text{\textbackslash definecolor \{lecture\} \{rgb\} \{0, 0, 0\}}$$

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:

$$\text{\textbackslash ttlegend \{Color\} \{Description\}}$$

- `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:

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

- `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 → Online Platforms).

- `Priority`. The priority of the apponintment. See → Priority.

Note that `\appointment` only works in the appropriate environment.

1.3.2 Arguments

This environment takes one optional arguemnt, 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 `appointment`-environment. Inside, you can use the `\deadline`-command to add deadlines to the list.

$$\text{\textbackslash deadline \{Date\} \{Course\} \{Description\} \{Priority\}}$$

1.5 Exams

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

$$\text{\textbackslash exam \{Date\} \{Time\} \{Course\} \{Type\}}$$

- `Date`, `Time`, `Course`. As before.

- `Type`. The type of the exam. See → 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} {-}     {\zoom}   {M}    {08:30-10:00} {\phigh}
 \tutorial     {Numerik I}             {\tbd}  {\teams}  {M}    {16:15-17:45} {\pmid}
 \officehour   {Software\\Engineering} {-}     {\zoom}   {T}    {08:30-10:00} {\phigh}
 \lecture      {Numerik I}             {-}     {\teams}  {T}    {10:15-11:45} {\pmid}
 \meeting      {Tutor Meeting}         {-}     {\teams}  {T}    {14:00-15:00} {\phigh}
 \lecture      {Numerik I}             {-}     {\teams}  {Th}   {14:15-15:45} {\pmid}
 \tutorial     {MfN I}                 {-}     {\teams}  {F}    {10:15-11:45} {}
 \seminar      {Machine Learning}      {-}     {\zoom}   {F}    {12:15-13:45} {\pmandatory}
\end{timetable}
```

◷ Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
9:00	Software Engineering	Software Engineering			
10:00		Numerik I			MfN I
11:00					
12:00					Machine Learning
13:00					
14:00		Tutor Meeting		Numerik I	
15:00					
16:00	Numerik I				
17:00					
18:00					

3.2 Legend

```
\begin{legend}
 \ttlegend {lecture}    {Lecture}
 \ttlegend {tutorial}   {Tutorial}
 \ttlegend {meeting}    {Meeting}
 \ttlegend {seminar}    {Seminar}
 \ttlegend {officehour} {Office Hour}
\end{legend}
```

🟦 Lecture
🟩 Tutorial
🟥 Meeting
🟨 Seminar
🟦 Office Hour

3.3 Appointments

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

📅 Appointments

Date	Time	Course	Description	Platf.	Prio.
09.11.2020	10:15 - 11:45	Seminar	Kickoff-Meeting	⊞	⚠

3.4 Deadlines

```
\begin{deadlines}
 \deadline {01.01.2021} {Seminar} {Hand in write−up} {\phigh}
\end{deadlines}
```

💣 Deadlines

Date	Course	Description	Prio.
01.01.2021	Seminar	Hand in write-up	🚩

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}
```

▢ Exams

Date	Time	Course	Type
04.03.2021	09:00 - 12:00	Analysis I	✏
20.03.2021	14:00 - 14:30	ICL	💬