

The background of the slide is a light gray gradient. It is decorated with several realistic water droplets of various sizes, some clustered in the top left and bottom right corners. In the center, there is a faint, circular logo that appears to be a university crest or seal, though its details are not clearly visible.

LaTeX

PHSG SEM 3 AND 5

PAPER : SEC A1

SUNETRA DAS

Presentation #5 05-12-2023

SPECIAL CHARACTERS

- ALL SYMBOLS OTHER THAN A-Z, α -z, 0-9, AND ENGLISH PUNCTUATION MARKS.
- `\documentclass{article}`
- `\begin{document}`
- `<>\\`
- `\textless \\`
- `\textgreater`
- `\end{document}`



`<`
`>`
`\textless` `\textgreater`

DEGREE SYMBOL

- `\documentclass{article}`
- `\usepackage{amsmath}`
- `\usepackage{siunitx}`
- `\begin{document}`
- A `\SI{45}{\degree}` angle.
- It is `\SI{17}{\degreeCelsius}` outside.
- `\end{document}`

A 45° angle.
It is 17 °C outside.

OTHER SYMBOLS

Command	Sample	Character
<code>\%</code>	%	%
<code>\\$</code>	\$	\$
<code>\{</code>	{	{
<code>_</code>	—	—

```

\documentclass{article}
\usepackage{siunitx}
\begin{document}
A \SI{45}{\degree} angle.\\
It is \SI{35}{\degreeCelsius} outside.\\
A 90\textdegree angle.\\
\$ \% \{ \} \_ \sim \& \#
\end{document}

```

A 45° angle.
 It is 35 °C outside.
 A 90°angle.
 \$ % { } _ ~ & #

05-12-2023

SYMBOLS IN MATH MODE

- MATH MODE IS ACTIVATED BY USING THE DOLLAR SYMBOLS TO ENCLOSE A COMMAND.

LaTeX command	Sample	Description	Text-mode equivalence
<code>\hat{o}</code>	$\hat{o}$	circumflex	<code>\^</code>
<code>\widehat{oo}</code>	$\widehat{oo}$	wide version of <code>\hat</code> over several letters	
<code>\check{o}</code>	$\check{o}$	vee or check	<code>\v</code>
<code>\tilde{o}</code>	$\tilde{o}$	tilde	<code>\~</code>
<code>\widetilde{oo}</code>	$\widetilde{oo}$	wide version of <code>\tilde</code> over several letters	
<code>\acute{o}</code>	$\acute{o}$	acute accent	<code>\'</code>
<code>\grave{o}</code>	$\grave{o}$	grave accent	<code>\`</code>
<code>\dot{o}</code>	$\dot{o}$	dot over the letter	<code>\.</code>

SYMBOLS IN MATH MODE

<code>\ddot{o}</code>	ö	two dots over the letter (umlaut in text-mode)	<code>\"</code>
<code>\breve{o}</code>	Ȯ	breve	<code>\u</code>
<code>\bar{o}</code>	ō	macron	<code>\=</code>
<code>\vec{o}</code>	→	vector (arrow) over the letter	

```
\documentclass{article}
```

```
\begin{document}
```

```
$\hat{o}$
```

```
\^{a}
```

```
$\vec{j}$
```

```
$\dot{B}$
```

```
$\ddot{x}$
```

```
$\bar{h}$
```

```
$\hat{i}$
```

```
\end{document}
```

ô â $\vec{j}$ $\dot{B}$ $\ddot{x}$ $\bar{h}$ $\hat{i}$