

# Introductory Course in the Use of L<sup>A</sup>T<sub>E</sub>X

– Syllabus –

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## Objectives

L<sup>A</sup>T<sub>E</sub>X is a famous text editor mostly used in academics to write any documents, such as dissertations, papers, or CV, as well as to present slides. This course is intended to provide the basic knowledge of the most important commands of L<sup>A</sup>T<sub>E</sub>X. At the end of this course, students will be able to use L<sup>A</sup>T<sub>E</sub>X to write a full document – including tables, figures, and bibliography – and their own CV.

## Installing L<sup>A</sup>T<sub>E</sub>X

In order to use L<sup>A</sup>T<sub>E</sub>X you will need some T<sub>E</sub>X packages (basically, some softwares) on your computer. **Please come to the lectures with your favourite T<sub>E</sub>X distribution already installed on your laptop.**

Here you can find some recommended softwares/distributions (please choose one).

### On Mac

Download T<sub>E</sub>Xshop following the instructions on <http://pages.uoregon.edu/koch/texshop/> or MacTex on <http://www.tug.org/mactex/>.

### On Windows

Download MiK<sub>T</sub>E<sub>X</sub> following the instructions on (<http://www.miktex.org/>).

## On Linux

You might have already installed L<sup>A</sup>T<sub>E</sub>X on your system. If not, use your package manager to install the following packages: 1) `texlive` – the base T<sub>E</sub>X/L<sup>A</sup>T<sub>E</sub>X setup; 2) `emacs` (with AUCTeX) – an editor that integrates tightly with L<sup>A</sup>T<sub>E</sub>X through the add-on AUCTeX package; 3) `ghostscript` – a PostScript preview program; `xpdf` and `acrobat` – a PDF preview program; 4) `imagemagick` – a free program for converting bitmap images; 5) `gimp` – a free Photoshop look-a-like; 6) `inkscape` – a free illustrator/corel draw look-a-like.

## Lectures

- Day 1, 2 hours
- Day 2, 2 hours
- Day 3, 2 hours

## Topics

1. Typesetting Text
2. Typesetting Maths
3. Tables and Figures
4. How to use L<sup>A</sup>T<sub>E</sub>X for writing a CV
5. How to use L<sup>A</sup>T<sub>E</sub>X for writing a dissertation
6. How to use L<sup>A</sup>T<sub>E</sub>X for presentations: Beamer
7. ShareL<sup>A</sup>T<sub>E</sub>X

## References

Tobias Oetiker (1995), “The Not So Short Introduction to L<sup>A</sup>T<sub>E</sub>X2 $\epsilon$ ”, downloadable at <https://tobi.oetiker.ch/lshort/lshort.pdf>.