

LaTeX Course Teaching Plan

Dates:

Wednesday 25th June 2014 to Monday 1st July 2014

Venue:

Room 3A112

Times:

Period 1: 0750:0835 (10 minute break)

Period 2: 0840:0925 (20 minute break)

Period 3: 0945:1030

Session 1 (Wednesday 25th June 2014)

Content

- Introduction to the course & instructor
- Introduction to LaTeX
- Getting started

Material

- Introduction document
- Lecture notes pages 1-19
- Quick hands-on demonstrations
(e.g. TeXShop on the Mac – INTERSPEECH ultrasound paper
TeXStudio on Ubuntu – Machine hearing paper)
- Demo Day 1 LaTeX document building – homework is to make sure you can do this.

Optional

- Diagram of the LaTeX compilation process including bibtex

Homework

- Install a working LaTeX system. Make sure it works by building the Day 1 LaTeX document. If you've already written papers using LaTeX, then you can skip this!

Session 2

Content

- About academic papers
- Paper structure and format
- Templates

Material

- Lecture notes, pages 21-54
- Hands-on: look at *bare_jrnl.tex* after explaining the various sections. Then look at a filled one (e.g. 2012/ICNC2011 - this is based on *bare_conf.tex*). Show how we see spelling mistakes.

Optional

- Look at yesterday's homework, questions.

Homework

- Using the IEEE bare_jrnl.tex as a template, start writing a paper. For today, you can copy any text from a current BBC news/China Daily (English)/South China Morning Post (English) news website article to put in your “paper”. Your paper will be >1 page long (A4), double column, 11 point text, and will report a current story in English. The “paper” needs to include the following:
 1. a descriptive title
 2. you name yourself as the author, your address is USTCs (PO Box 4, Dept. 6, 443 Huangshan Road, Hefei, Anhui, China)
 3. Your abstract should start like this “This paper is a summary of a news story which reports.....”, and it MUST identify the source of the news
 4. Include at least one example of dropcaps, different types of dashes and quotation marks (-, –, “” and ' '), some italic text, and some bold text
 5. You must include one thing verbatim (this can be the website URL)
- Your English grammar is not important for this, but the paper format should look good

Session 3

Content

- The problem of plagiarism
- LaTeX tables
- LaTeX figures

Material

- Lecture notes, pages 55-89
- Hands-on: try creating and then changing some tables in class
- Try plotting something in MATLAB and then including it in the paper

Optional

- Look at yesterday's homework, questions.

Homework

- Create a table and two figures with the following specifications (note; you can have a new document, or include these inside yesterday's' document if you prefer);
 1. Figure 1 should be a simple block diagram showing the sequence of steps you used to create the paper (this figure must be drawn by you... show at least 5 boxes with arrows)
 2. Figure 2 needs to be a simple plot in MATLAB of $y=\sin(x)$

Session 4

Content

- LaTeX equations
- Code listings
- Bibliographies

Material

- Lecture notes, pages 90-111
- Hands-on: writing some equations

- Hands-on: code listings (show some options)

Optional

- Look at yesterdays homework, questions.

Homework

- Add some equations to your document
- Include a simple code listing into your document

Session 5

Content

- Useful packages
- Debugging
- The review process
- Getting cited

Material

- Lecture notes, pages 112-133

Optional

- Look at yesterdays homework, questions
- Debug a .tex file that contains errors

Final Assignment

I will give you this later – it will be DIFFERENT to last years...