

List of Things : Sequence

immediate

March 4, 2017

- Introduction:
 - Work with their download issues (max 10 min !!)
 - Introduce L^AT_EX: Environment, Founder (Donald Knuth), Originally Developed in (Web) Pascal (now obsolete!).
 - Get a survey of how everyone is doing! Did anyone experiment ? How was it ? How many know preliminary L^AT_EX. Strike a conversation.
 - Show them something. Maybe PDE Midterm. (Try that in Word!! :P).
 - Version Control. Give them the link to download.
 - Download the Repository.
- Brief them about the environment. Viewport. Pdf Viewer.(Embedded). Do not delete any log/aux files, these are important in compiling the document for later runs.
- Tell them about the first thing. How to start the document ? Class ? Fontsize ? Margins. Use the package `geometry`. See the time limit ? 20 mins ?
- Preamble:
 - Whatever lies between the class and `begin document`. List of packages. (brief explanation of what they are meant to do.)
 - FIXME: Take a copy of the library of packages that you are using. (Early Morning)
- Section
 - Explain about `section*` and `subsection*`
 - Explain about paragraphs and their role in writing a paper. Briefly talk about bold, underline, italics, `text` *textit* `texttt`
- Explain difference between url and hyperlink.
- Graphics: We are focussing on floats. Reason being: Time constraint.
 - Tables:
 - Figures/Subfigures: Positioning and details. And work out examples with them.
 - Ask them to download images, inside and outside the parent directory and deal with that! Do not forget to add `graphicspath`. (Before that do a 5 minute exercise on paragraphs, sections, subsections. Adding newlines. How to add new lines.)
- Tables: Write tables. What all details are needed ? What is the best way to add tables if desired. (Hand-input almost never!), how to do then ? Something called Macros. Range from simple to complex ! (We will try to cover the most basic ones.)
- Make them install `excel2LATEX` and see if they are able to correctly install it on their respective machines.
- Begin Math Mode !
 - Short Introduction: Inline Math, Out of line math, the difference!
 - Types of Brackets. Curls, Square Brackets, Parenthesis, super(sub)script, trigonometric functions, fractions, derivatives, Integrals (definite and indefinite) \oint , \int , (Install the `esint` package). Summation, Dot Product, $\langle \rangle$, talk about `bf cdot otimes tilde hat bar dot ddot` , \acute{o} , \ddot{o}

- Make them type equations, long equations, without macros and with macros. What happens when they run into multiple lines.
- Matrix, Macros (Again)
- References and BibTeX \exists