



**TRINITY COLLEGE FOR WOMEN
NAMAKKAL
Department of Mathematics**

**SBEC- LATEX THEORY
19UMAS03 - EVEN Semester**

Introduction to Latex

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What is latex?

- Tex is a typesetting system designed in 1978 to automate the production of high quality print using any type of computer
- Latex is a document mark up language used to create document in Tex.
- Often formatted as: L^AT_EX

Assignment overview

- Create a tutorial designed to teach a novice engineering student how to create a document in LaTeX.
- The tutorial itself should be created using LaTeX.
- You should use an IEEE formatting template (from an IEEE clas file – more on that later)

Finding an IEEE class file

- First what is class file

A class file is a set of document specifications such as formatting information, font styles, etc.

- For this assignment , download and unzip:

http://people.ucsc.edu/~gmodulds/latex_185.zip

Assignment requirements

- Creating a .tex file

- * Environments: `\begin{ }` and `\end{ }`

- * Reserved characters

- # Explain the functions of these characters: `\`, `~`, `\\`, `&`

- # What if you want to display these character?

- * Preamble

- # `\documentclass []` and class files

- # packages

- # `\begin{document}` and `\end{document}`

- * Title and Heading information

- # Title, Author and Date

- # `\maketitle` command

- * Sections
 - # subsections
- * Body text: Paragraphs and Coment
- * Tables
- * Figures
- * Mathematical formulas
- * How to: Acknowledgements
- * How to: References
- * Conclusion
- * Acknowledgements
- * References

Common problems to avoid

- * Don't just present examples, explain them.
- * Provide a meaningful introduction, consider your audience's perspective.
- * Use your own words, do not copy from the sample template.
- * Be sure to include all the requirements.
- * Spellcheck! (if your client doesn't)

Table Section

- * Explain difference between `\begin{table}` and `\begin{tabular}`
- * Explain the following characters/symbols:
l, c, r, | (vertical bar), `\hline`, `\\`
- * Explain how to enter content.
- * Use an example table showing how to create a table at least 2 columns wide and 3 rows long.

How to: References

- * Demonstrate how to set up the thebibliography environment
 - # Explain how to include each bibitem
- * Explain the following commands:
 - # \label
 - # \ref
 - # \cite
- * Note: It will be helpful to use a previous figure as an example for \label and \ref

THANK YOU

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