

7. Create HTML documents (having multiple frames) in the following three formats:

Frame 1
Frame 2

Frame 1	
Frame 2	Frame 3

*Suggestion Books:*

1. Virginia DeBolt, Integrated HTML and CSS A Smarter, Faster Way to Learn Wiley / Sybex , 2006
2. Cassidy Williams, Camryn Williams Introduction to HTML and CSS, O'Reilly, 2015

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68	LaTeX	SEC0206803	3	40-60
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**PAPER NAME: LaTeX**  
**PAPER CODE: SEC0206803**  
**Total Credits: 3 (Theory: 2 + Practical: 1)**

**THEORY:**  
**Total lectures: 30**

**COURSE OBJECTIVES:**

This course aims to familiarize the students with typesetting software LaTeX which will enable them to prepare documents especially with mathematical equations, graphs and figures. This course will also acquaint them with the Beamer presentation techniques.

**COURSE OUTCOME:**

After studying this course the student will be able to:

- a. Create and typeset a LaTeX document.
- b. Typeset a mathematical document using LaTeX.
- c. Learn about creating simple pictures using LaTeX.
- d. Create a beamer presentation.

**Unit 1: Elements of LaTeX (Lectures: 15)**

Typing a LaTeX document, typing a mathematical document.

**Unit 2: Graphics in LaTeX (Lectures: 10)**

Creating simple pictures, PS Tricks.

**Unit 3: Beamer (Lectures: 5)**

Beamer presentation.

**[1] Chapter 9, [1,2] Chapter 10, [3] Chapter 11.**

**PRACTICAL: (Hours: 15)**

**At least six practical should be done by each student. The teacher can assign practical from the exercises from [1].**

**BOOKS RECOMMENDED:**

1. Erickson, M. J. and Bindner, D., *A Student's Guide to the Study, Practice and Tools of Modern Mathematics*, CRC Press, Boca Raton, FL, 2011.

**REFERENCE BOOKS:**

1. Lamport, L., *LATEX: A Document Preparation System, User's Guide and Reference Manual*. Addison-Wesley, New York, second edition, 1994.

**Syllabus 2**

**Guwahati College**

**Skill Enhancement Course: LaTeX**  
(Syllabus for 2nd Semester GU-FYUGP)

**Objectives :** To introduce students with a software that is being widely used for typesetting specially in Mathematics field. To make students know importance of this software for publishing research articles, papers, project reports and books and thereby help them to be comfortable with the software .

**Unit I : Installation of LaTeX 8 Hours**

- i) Installation of TexStudio/TexMaker and MikTeX/TexLive.
- ii) Class and packages
- iii) Latex programming and commands, sample packages
- iv) Error messages : Some sample errors, list of LaTeX error messages

**Unit II : Formatting of output document : 8 Hours**

- i) Fonts, symbols, indenting, paragraphs, line spacing, word spacing, titles and subtitles
- ii) Document class, page style, parts of the documents, table of contents
- iii) Command names and arguments, environments, declarations
- iv) Theorem like declarations, comments within text,

**Unit –III : Mathematical formulae : 8 Hours**

- i) Mathematical environments, math mode , mathematical symbols
- ii) Graphic package, multivalued functions, drawing matrices
- iii) Tables, tables with captions
- iv) References to figures and tables in text

**Unit –IV : Drawing with LaTeX 8 Hours**

- i) picture environments
- ii) extended pictures, other drawing packages
- iii) Preparing book, project report in LaTeX.

**Unit –V : Slide Presentation 8 Hours**

- i) Introduction of Beamer
- ii) Slide preparation and presentation

**Reference Book :**

Guide to LATEX, fourth edition, Helmut Kopka,Patrick W.Daly

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**Manuscript Preparation in Bodo**

**Marks: 80 (Theory) + 20 (Internal Assessment) Total =100**

**Course outcomes:**

- Come to know about manuscript preparation and use of punctuations and symbols
- About benefits of editing and taking into MS word & PageMaker

<b>Unit: I</b> Types of Manuscript: Use of Punctuation, Sign and Symbols	20
<b>Unit: II</b> Importance of Editing and Proof Reading; Symbols used in Proof reading, Proofreader, Proof reading process	20
<b>Unit: III</b> Process, Purpose and benefits of Editing	20
<b>Unit: IV</b> Taking Manuscripts in MS Word Format and Page Maker etc.	20

**Suggested readings:**

A Few Suggestions to McGraw-Hill Authors-McGraw Hill Book Company, Forgotten Books  
Guidelines for manuscript preparation-Gayle Giese & Pick Edmondson

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