

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

STUDENT ENROLMENT LIST

Name of department : PHYSICS

Name of course : DIGITAL TYPOGRAPHY USING LATEX (2022-23)

Sl No	Name of Student	Signature
1	Abhinandana. B	Abinad.
2	Abhirami. R. S	Abhi.
3	Akhila. B	Akhila.
4	Amsutha. U	Amsi.
5	Anoop. S	Anoop.
6	Aparna. B	Aparna.
7	Gopikrishnan. J	Gopi.
8	Krishnapriya. L	Krishna.
9	Krishnedda. A. S	Krishna.
10	Nayana. S. kumar	Nayana.
11	Pallavi. P. S	Pallavi.
12	Pranav. S. B	Pranav.
13	Sanjay. V. Nair.	Sanjay.
14	Sradha. J. S.	Sradha.
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17	Satheenthara. S	
18		
19	DEPARTMENT OF PHYSICS	
20	M. M. N. S. S. COLLEGE	
21	KOTTIYAM	
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DIGITAL TYPOGRAPHY USING LATEX

Curriculum

Module 1 (20 hrs)

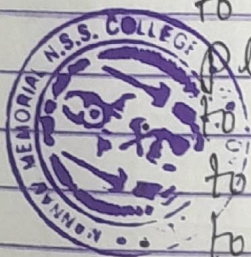
Understanding Latex Overleaf, basic linux commands, latex documents, text editors, basic syntax, basic structure of positioning, fonts, page styles, writing equations, matrix, pagelayout (titles, abstract, chapters, sections, references, equation ref. citation), including graphics, tables etc. document preparation, question paper preparation.

Module 2 (10 hrs)

Including additional packages, enumerate, geometry, amsmath, amssymb, sectsty, fancyhdr, presentation using beamer.

Objectives

- to understand basic linux commands to compile and run latex scripts on linux platforms.
- to understand various latex editors to write their research project in latex
- to understand beamer presentation, thesis writing etc.



Course

20/2/23	Monday	8.30 - 9.30 am
21/2/23	Tuesday	3.30 - 4.30 pm
22/2/23	Wednesday	8.30 - 9.30 am
23/2/23	Thursday	8.30 - 9.30 am
24/2/23	Friday	8.30 - 9.30 am
27/2/23	Monday	3.30 - 4.30 pm
4/3/23	Saturday	9.30 am - 3.30 pm
6/3/23	Monday	3.30 - 4.30 pm
7/3/23	Tuesday	3.30 - 4.30 pm
8/3/23	Wednesday	8.30 - 9.30 am
9/3/23	Thursday	8.30 - 9.30 am
18/3/23	Saturday	9.30 am to 3.30 pm
20/3/23	Monday	3.30 - 4.30 pm
21/3/23	Tuesday	3.30 - 4.30 pm
22/3/23	Wednesday	8.30 - 9.30 am
23/3/23	Thursday	8.30 - 9.30 am
24/3/23	Friday	8.30 - 9.30 am
25/3/23	Saturday	10.00 am - 4.00 pm
05/4/23	Wednesday	10.00 am - 12.00 pm

2022-23

Schedule

understanding Latex
basic linux commands
Latex documents
text editors
basic syntax
structure of positioning
fonts, page styles, writing eq's, matrix, page layout
graphics, tables
document preparation
lab
question paper preparation
lab
Additional packages
enumerate
geometry
amsmath, amsymb
sectsty, fancyhdr
presentation using beamer, lab.

Evaluation test

Sathyanarayanan
DEPARTMENT OF PHYSICS
M. M. N. S. S. COLLEGE
KOTTIVAM



Digital Typography using Latex
Add On-Course 2022-23, PG Department of Physics
MM NSS College, Kottiyam

Total Marks: 50

Duration: 2 Hours

Section A: 1-Mark Questions *Answer all questions. Each question carries 1 mark.*

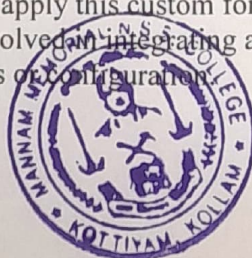
1. What command is used to set the font size in a LaTeX document?
2. How do you change the font family to `serif` in LaTeX?
3. What command in LaTeX makes text bold?
4. How do you create a title for a LaTeX document?
5. Which LaTeX package is commonly used to manage fonts and font sizes?

Section B: 2-Mark Questions *Answer all questions. Each question carries 2 marks.*

6. Describe how to change the font color of text in LaTeX.
7. Explain the purpose of the `\texttt{}` command in LaTeX and give an example of its use.
8. How can you include custom fonts in a LaTeX document? Provide a brief example.
9. What is the purpose of the `\underline{}` command in LaTeX, and how is it used?
10. Briefly describe how to create a list with different bullet styles in LaTeX.

Section C: 15-Mark Questions *Answer all questions. Each question carries 15 marks.*

11. **Advanced Font Customization in LaTeX:**
 - a. Write a LaTeX document that demonstrates the use of different font sizes, families, and styles.
 - b. Include examples of at least three different font sizes (e.g., `\tiny`, `\small`, `\large`), two font families (e.g., `serif`, `sans-serif`), and various styles (e.g., `\textbf{}`, `\textit{}`).
 - c. Show how to apply a different font to a specific section of the document using LaTeX commands or packages.
12. **Creating a Typography-focused Document:**
 - a. Create a LaTeX document that demonstrates the use of typography-focused features, including text alignment, line spacing, and paragraph indentation.
 - b. Include sections with justified and centered text, custom line spacing using `\renewcommand{\baselinestretch}{}`, and indentation settings.
 - c. Provide examples of how LaTeX handles hyphenation and text justification.
13. **Using LaTeX Packages for Typography:**
 - a. Write a LaTeX document that utilizes at least two different LaTeX packages for enhancing typography, such as `microtype` and `xcolor`.
 - b. Demonstrate how to use the `microtype` package to improve text spacing and font expansion.
 - c. Show how to use the `xcolor` package to apply colors to text and backgrounds, including how to define custom colors.
14. **Implementing Font Customization:**
 - a. Create a LaTeX document that includes a custom font from an external source.
 - b. Demonstrate how to apply this custom font to the entire document or specific sections.
 - c. Discuss the steps involved in integrating and using custom fonts in LaTeX, including any necessary packages or configuration.



Sutirthan
DEPARTMENT OF PHYSICS
M. M. N. S. S. COLLEGE
KOTTIYAM.

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

END COURSE EVALUATION

Name of department : PHYSICS

Name of course : DIGITAL TYPOGRAPHY USING LATEX (2022-23)

Duration of exam : 2 hrs

Total Marks : 50

Sl No	Name of Student	Marks Obtained
1	Abhinandana . B	48
2	Abhirami R. S	46
3	Akhila . B	47
4	Amrutha . U	42
5	Anoop S	44
6	Aparna . B	41
7	Gapikrishnan . J	50
8	Krishnapriya . L	49
9	Krishnendu A. S	48
10	Nayana S Kumar	35
11	Pallavi P. S	35
12	Pranav S. B	50
13	Sanjay V. Nair	50
14	Sradha . J. S	49
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Report - Digital Typography using LaTeX.

PG department of physics offers a course on 'Digital Typography using LaTeX' for the IT & MSc Physics students of the department. The course was conducted for 30 hours. Classes were taken before/after regular class hours and on Saturdays. The course was to make the students understand about the basic linux commands and to run LaTeX scripts on Linux platforms. After the course the students were able to do projects in LaTeX and they become familiar in writing thesis using LaTeX.

The feedback analysis shows that they were satisfied with the course. The course benefits the students in preparing documents using LaTeX.

Resmi Vis.



Dr. Subheetha S. Doss
DEPARTMENT OF PHYSICS
M. M. N. S. S. COLLEGE
KOTTIYAM.

Principal
M.M.N.S.S. COLLEGE
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