Contents

Ι	Le	earning outcomes	3
II	\mathbf{L}	esson Plan	4
1	Intr	roduction	5
	1.1	How it's different from Word	5
		1.1.1 WYSIWYG - What You See Is What You Get	5
		1.1.2 Typesetting	5
		1.1.3 Markup language	5
		1.1.4 Packages	5
		1.1.5 Compilation	5
	1.2	Text editors	5
		1.2.1 TeXstudio	5
		1.2.2 VScode (recommended)	5
2	Inst	tallation	6
	2.1	Installing LATEX	6
	2.2	Installing an IDE	6
3	Get	ting started	7
	3.1	Text-only document	8
	3.2	Environments and scope	8

CONTENTS	2

	3.3	Maths	8
		3.3.1 Equations, sums and alignment	8
		3.3.2 Use of variables	8
		3.3.3 Vectors and Matrices	8
		3.3.4 Calculus	8
	3.4	Graphs with Tikz	8
	3.5	Circuits	8
	3.6	Control systems	8
4	Hov	v do I?	9
	4.1	Search engine	9
	4.2	Stack Exchange	9
	4.3	CTAN package information	9
5	Woı	rking faster	0
	5.1	Becoming familiar with the IDE	0
	5.2	Using snippets	0

Part I

Learning outcomes

Part II

Lesson Plan

Introduction

- 1.1 How it's different from Word
- 1.1.1 WYSIWYG What You See Is What You Get
- 1.1.2 Typesetting
- 1.1.3 Markup language
- 1.1.4 Packages
- 1.1.5 Compilation
- 1.2 Text editors
- 1.2.1 TeXstudio
- 1.2.2 VScode (recommended)

Installation

- 2.1 Installing LATEX
- 2.2 Installing an IDE

Getting started

- 3.1 Text-only document
- 3.2 Environments and scope
- 3.3 Maths
- 3.3.1 Equations, sums and alignment
- 3.3.2 Use of variables
- 3.3.3 Vectors and Matrices
- 3.3.4 Calculus
- 3.4 Graphs with Tikz
- 3.5 Circuits
- 3.6 Control systems

How do I...?

- 4.1 Search engine
- 4.2 Stack Exchange
- 4.3 CTAN package information

Working faster

- 5.1 Becoming familiar with the IDE
- 5.2 Using snippets