

# UNIVERSITY OF ABERDEEN

Title

EG59XX Individual Project in XXX Engineering

By

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## **Abstract**

In this dissertation, I will discuss most efficient ways of teaching  $\text{\LaTeX}$  to PGTs students.

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# Chapter 1

## Introduction

This chapter introduces the topic ....

### 1.1 Text in bold

#### 1.1.1 Example of subsection

Hello world!

### 1.2 Text in Italic

*Hello world!*

### 1.3 Text in color

Hello world!

- *Formatting text with Latex;*
- **Trying a few commands**

## Chapter 2

# Literature review

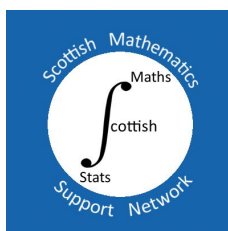
This chapter reviews existing literature ....



# Chapter 3

## Methodology

This chapter discusses methodology of the work ....



## Chapter 4

# Conclusions

# Appendix A

## Matlab code

Description of Matlab code

### A.1 Matlab code to solve differential equation

```
1 N = 10; % Number of grid points
2 x = linspace(0,0.5*pi,N); % Setup the x grid
3 dx = x(2) - x(1); % Set Delta x on a uniform grid Set Delta x
  on a uniform grid Set Delta x on a uniform grid Set Delta x on a
  uniform grid
4
5 y = zeros(N,1); % Pre-allocate the solution vector
6 y(1) = exp(-1); % Set the initial condition
7
8 for i = 1:N-1 % Loop over each point in the grid
9     xhalf = 0.5*(x(i) + x(i+1));
10    yhalf = y(i) + 0.5*dx*y(i)*sin(x(i));
11    y(i+1) = y(i) + dx*yhalf*sin(xhalf);
12 end
```