

# A report template in L<sup>A</sup>T<sub>E</sub>X for students

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## **Abstract**

This is a report template in L<sup>A</sup>T<sub>E</sub>X for students in University of Huddersfield, see university logo in figure 4.1 (example of referencing to figure).

You will find some other example such as *including figure* and *listing*.

# Acknowledgement

I am grateful to my supervisor, Prof. X for his advice and guidance.

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## Chapter 1

# Introduction

## 1.1 Summary

The purpose of this paper was to help students use L<sup>A</sup>T<sub>E</sub>X because of many reasons:

- Latex has user friendly interface
- In latex, you get what you mean

This is introduction. Lets start with some quotes

Joy in looking and comprehending is nature's most beautiful gift <sup>1</sup>.

---

<sup>1</sup>Albert Einstein

## 1.2 Motivation

I am inspired by this quote from Confucius; "Find a job you love, you'll never work a day in your life."



## Chapter 2

# Methodology

## 2.1 Assumption

We assumed that everyone who uses this template has at least basic knowledge of latex.



Figure 2.1: Example of a figure  
This figure illustrates ...

## 2.2 Mathematics

It is easy to show a matrix in latex, for example we write  $\begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 1 \\ 0 & 2 & 3 \end{bmatrix}$  in the same line, however we could write

$$A = \begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 1 \\ 0 & 2 & 3 \end{bmatrix}$$

Here is citation [2]

## 2.3 Programming

### 2.3.1 Java

In L<sup>A</sup>T<sub>E</sub>X you can include Java code, for example

Listing 2.1: HelloWorld.Java

---

```
1  /**
   * Author: Mehdi Dana
3  * Tutor : Dr Gary Allen
   */
5
   public class HelloWorld {
7
       public static void main(String[] args) {
9           System.out.println("Hello World");
       }
11 }
```

---

Similarly, it is easy to include any other programming languages such as C++ and PHP.

You could write java code directly into file, for example listing 2.2 is not included.

Listing 2.2: HelloWorld2

---

```
1  /* try and catch example */
   try{
3      System.out.println("Hello World");
   }catch (Exception e){
5      System.out.println("Failed to print");
   }
```

---

### 2.3.2 Logic

It is *hard* to write this in word documents:

$$\forall x \in X, \quad \exists y \leq \epsilon$$

## Chapter 3

# Conclusion

### 3.1 Summary

This was a report template in latex, we tried to keep it simple so you could understand and change it to meet your requirement.

## Chapter 4

# Reference and Appendix

# Bibliography

- [1] E. Krishnan, editor. *L<sup>A</sup>T<sub>E</sub>X Tutorials*. Indian TEX Users Group, 2003.
- [2] Prof. Lee McCluskey. <http://helios.hud.ac.uk/scomt1m/>, 2011. Cited: February 2012.

## Appendices



Figure 4.1: University of Huddersfield logo  
This is logo of Huddersfield University