



**DEPARTMENT OF BUILDING SURVEYING  
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING  
UNIVERSITI TEKNOLOGI MARA**

**A STUDY ON FIRE PROTECTION SYSTEM FOR HISTORICAL  
SCHOOL BUILDING**

**This academic project is submitted in partial fulfillment of the  
requirement for the Bachelor of Building Surveying (Hons.)**

**ANAS FIRDAUS BIN RAHMAT  
(2006699422)**

**APRIL 2008**

DEPARTMENT OF BUILDING SURVEYING  
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING  
UNIVERSITI TEKNOLOGI MARA

A STUDY ON FIRE PROTECTION SYSTEM FOR  
HISTORICAL SCHOOL BUILDING

"I hereby declare that this academic project is the result of my own research  
except for the quotation and summary which have been acknowledged"

STUDENT'S NAME : ANAS FIRDAUS BIN RAHMAT

SIGNATURE :



UITM NO : 2006699422

DATE : 20 APRIL 2008

## **ACKNOWLEDGEMENT**

In preparing this dissertation, I was in contact with many people, researchers, and academicians. They have contributed towards my understanding and thoughts. In particular, I would like to express highly appreciation to my supervisor, Associate Pn. Julaida Kaliwon who gives me support and guidance during my study. Many thanks to all my colleagues and other who have provided assistance at various occasions. Their view and tips are useful indeed.

## **Abstract**

**“Fire is unwanted, unexpected, disastrous and costly, both in terms of human life and business cost”**

Lost of life and property by fire most commonly occur because of ignorance about the nature of fire and its behavior, possibly lethal, in circumstances that normally appear perfectly harmless. If a successful campaign is to be conducted against fire and its dreadful consequences then the adversary must be fully understood. Never forget, prevention is better than cure.

Fire spread is very quickly. Fire tends to double its size at regular intervals, sometimes as quickly as within minutes. Fires in buildings develop differently to fires in the outdoors, and the speed at which they spread takes most people completely by surprise.

It is said that the average domestic room with usual equipment will be totally alight in about four minutes. Often, members of the public fail to comprehend the speed at which fires develop and do not believe that they have to evacuate or do anything in relation to their safety.

## TABLE OF CONTENT

Acknowledgement	i
Abstract	ii
Table of content	iii
List of figures	
List of tables	ix
List of charts	xi
List of photos	xiii

### CHAPTER 1

<b>1.0 INTRODUCTION TO PROJECT</b>	<b>1</b>
1.1 Abstract	2
1.2 Definition of Topic	4
1.3 Introduction to Project	6
1.4 Objective	7
1.5 Related issues	8
1.6 Methodology	10
1.7 Selected School	11

### CHAPTER 2

<b>2.0 INTRODUCTION TO THE PRINCIPLE OF FIRE</b>	<b>12</b>
2.1 What is fire?	
2.2 The triangle of fire	13