



**MALAYSIAN MOTORCYCLISTS BEHAVIOR CONTRIBUTING
ROAD TRAFFIC CRASHES (RTCs)**

**MOHD ARZAIMIRUDDIN BIN ARIFFIN
(2007270908)**

A thesis submitted in partial fulfillment of the requirements for the award
of Bachelor Engineering (Hons) (Mechanical)

**Faculty of Mechanical Engineering
Universiti Teknologi MARA (UiTM)**

MAY 2010

ABSTRACT

Total number of road accident in Malaysia exceeded 363,314 in year 2007 alone and average person died from this road accident every single day were 17 persons. Although much effort has been devoted to the study of road accidents in Malaysia, it is only until recently little attention had been given to the accidents involving motorcycles. Lacks of attention, reckless driving, lack of proper protection, speeding and bad personal habit are some of the general problems that cause of accidents. This research was undertaken to study Malaysian Motorcyclists Behavior Contributing Road Traffic Crashes (RTCs). Three methods of data collection have been done by distribution the questionnaires to the UiTM students using flyers and emails, interview with a police officer, and an observation at one location which always accidents occurred, at Bulatan Bistari, Section 2, Shah Alam. The observation was carried out at two peak hours, 8.10 am – 9.10 am and 4.15 pm – 5.15 pm. These data of 3 methods show that human behavior is a main cause of motorcycle accidents and then followed by another factors such as environmental, mechanical defects, and riding experience. Besides that, the most risk involved in accidents is male due to egos, desiring to try new things, and others bad behavior.

ACKNOWLEDGEMENT

In the name of Allah The Most Gracious and The Most Merciful.

With the Selawat and Salaam to our lovable Prophet Muhammad SAW.

Alhamdulillah and thank to Allah, which has given me the commitment and the strength to complete this project as it is today. I would like to express my gratitude on the following individual person and department because their contribution of information, suggestion, admonition, and cooperation with me in order to ensure this research is being done properly and successfully.

1. Encik Mohd Faizal Bin Mohamad (*Supervisor*)
2. From IPPD Traffic Shah Alam:
 - a. Deputy Superintendent Ruslan Abdullah
 - b. Corporal Azmi Bin Abdullah

Last but not least, I am also taking this opportunity to express my appreciation to thank all of respondents and also my friends for their contributions whether direct or indirect. This research would not have into being without a sweet deal of help and encouragement from many sources. Their contributions and personal scarifies are truly appreciated and will be well remembered.

Thank You.

Wassalam.

TABLE OF CONTENTS

CONTENTS		PAGE
	PAGE TITLE	i
	ACKNOWLEDGEMENT	ii
	ABSTRACT	iii
	TABLE OF CONTENTS	iv
	LIST OF TABLES	viii
	LIST OF FIGURES	x
	LIST OF ABBREVIATIONS	xii
	LIST OF APPENDIXES	xiv
CHAPTER I	INTRODUCTION	
	1.0 Introduction	1
	1.1 Background of Study	3

CHAPTER II LITERATURE REVIEW

2.1	Scope of Study	6
2.2	Motorcycle: Overview	8
2.3	Road Accident	9
2.4	Factor Influencing Accidents	12
2.4.1	Age And Gender	12
2.4.2	Behavior	14
2.4.3	Riding Experience	16
2.5	Behavioral comparison: Motorcyclists Vs. Non-Motorcyclists	16
2.5.1	Case Study 1	16
2.5.2	Case Study 2	17
2.5.3	Discussion of 2 Case Studies	18
2.6	General causes of accident involved road users	19
2.7	Crashes	23
2.7.1	Pre-Crash Phase	23
2.7.2	Crash Phase	23
2.7.3	Post-Crash Phase	23
2.8	Classification Of Injury	24

CHAPTER III METHODOLOGY

3.1	Introduction	27
3.2	Surveying	29
3.2.1	Findings: Most accidents due to driver attitude	29