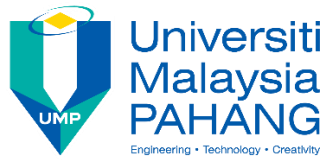


A STUDY ON EFFECTIVENESS OF
PEDESTRIAN BRIDGE UTILIZATION AT JALAN
TANAH PUTIH

JUNAIDI BIN RAHMAN
(TE14013)

Bachelor of Engineering Technology (Infrastructure
Management) with Honours

UNIVERSITI MALAYSIA PAHANG



SUPERVISOR's DECLARATION

I/We* hereby declare that I/We* have checked this thesis/project* and in my/our* opinion, this thesis/project* is adequate in terms of scope and quality for the award of the *Degree of Engineering Technology in

(Supervisor's Signature)

Full Name :

Position :

Date :



STUDENT'S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

(Student's Signature)

Full Name :JUNAJDI BIN RAHMAN

ID Number : TE14013

Date :

A STUDY ON EFFECTIVENESS OF PEDESTRIAN BRIDGE UTILIZATION AT
JALAN TANAH PUTIH

JUNAIIDI BIN RAHMAN (TE14013)

Thesis submitted in fulfillment of the requirements
for the award of the Degree of
Engineering Technology (Infrastructure Management) with Honours

Faculty of Engineering Technology
UNIVERSITI MALAYSIA PAHANG

DECEMBER 2017

ACKNOWLEDGEMENTS

Firstly, Thanks to Allah because giving me strength, patience and healthy body to finishing this Final Year Project. Alhamdulillah.

I would like to thank my group mate Fatin Atiqah Abdul Manap and Chong Jin Yong for their continual support in the time and effort required in researching, staying focused and prepared this final year project.

A special thank goes to my supervisor, Associate. Ir. Adnan Zukilple for his continual support and guidance to help moderate and direct my effort towards developing a worth piece of new knowledge. I would like also thank co-supervisor, Muhammad Azha Abd Rani director engineering department at Kuantan Municipal Council, for his very enduring enthusiasm and support to take the subject matter to a higher dimension.

The collection of data findings presented in this final year project was supported by the Kuantan Municipal Council and Hospital Tengku Ampuan Afzan.

In addition, I would like to express by deeper gratitude and thank everyone has involved in this final year project for constantly contributing to the completion. They were always supportive and gave a different opinion in order to make my final year project more interesting and indestructible in term of actual fact.

TABLE OF CONTENT

DECLARATION	
TITLE PAGE	
ACKNOWLEDGEMENTS	ii
ABSTRAK	iii
ABSTRACT	iv
TABLE OF CONTENT	v
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF ABBREVIATIONS	x
CHAPTER 1 INTRODUCTION	1
1.1 Background of the Study	1
1.2 Problem Statement	2
1.3 Objective of the Study	2
1.4 Scope & Limitation of Study	3
1.5 Study Area	3
CHAPTER 2 LITERATURE REVIEW	4
2.1 Introduction	4
2.2 Pedestrian	5
2.3 Use of Pedestrian Bridge	5
2.4 Pedestrian Safety	6
2.5 Pedestrian Attitude and Behaviour	8

2.6	Effects of Pedestrian Physical Impairment	8
CHAPTER 3 METHODOLOGY		9
3.1	Introduction	9
3.2	Site Familiarity	11
	3.2.1 Site Visit	11
	3.2.2 Determine Suitable time	11
3.3	Data Collection	12
	3.3.1 Observation Study	12
	3.3.2 Questionnaire	13
3.4	Data Analysis	13
3.5	Propose measures to increase utilization of pedestrian bridge	14
CHAPTER 4 RESULTS AND DISCUSSION		15
4.1	Introduction	15
4.2	Pedestrian Volume Data	15
4.3	Profile of respondents	20
	4.3.1 Gender, Age and Work	20
4.4	User of Pedestrian Bridge	22
	4.4.1 Destination of User Pedestrian Bridge	22
	4.4.2 Types of vehicle of the user pedestrian use	23
	4.4.3 Factor Pedestrian do not use pedestrian bridge	23
	4.4.4 Bridge Facilities	24
	4.4.5 Awareness of pedestrian to use bridge	25
4.5	Suggestion for improvement	26
CHAPTER 5 CONCLUSION		27

5.1	Introduction	Error! Bookmark not defined.
5.2	Recommendation	27
	REFERENCES	29
	APPENDIX A GROUP TRAFFIC COUNTING SHEET	31

LIST OF TABLES

Table 1-1 Injury based on the behaviours	2
Table 3-1: Data collection form from HTAA Crossing to MPK	12
Table 3-2: Data collection form from MPK crossing to HTAA	13
Table 4-1: Number of pedestrian that use and did not use the pedestrian bridge to cross from MPK to HTAA	16
Table 4-2: Number of pedestrian that use and did not use the pedestrian bridge to cross from MPK to HTAA	17

LIST OF FIGURES

Figure 1-1 Pedestrian bridge at Jln Tanah Putih	3
Figure 3-1: Methodology flow chart	10
Figure 3-2: Pedestrian Bridge in front HTAA	11
Figure 4-1: Pedestrian crossing road without using bridge	16
Figure 4-2 : Histogram Graph of pedestrian volume on Wednesday	18
Figure 4-3: Histogram Graph of pedestrian volume on	19
Figure 4-4: Gender of the respondents	20
Figure 4-5: Age of the respondent	21
Figure 4-6: Work of the respondent	21
Figure 4-7: Destination of pedestrian bridge user	22
Figure 4-8: Types of Vehicle of the pedestrian use.	23
Figure 4-9: Factors Pedestrian do not use pedestrian bridge	24
Figure 4-10: Bridge facility	24
Figure 4-11: awareness to use pedestrian bridge	25
Figure 4-12: Suggestion for improvement	26
Figure 5-1: Layout pedestrian bridge with 2 way escalator.	28
Figure 5-2: Layout Pedestrian Bridge with lift.	28

LIST OF ABBREVIATIONS

AVG	Average
HTAA	Hospital Tengku Ampuan Afzan
JLN	Jalan
MPK	Majlis Perbandaran Kuantan
PDRM	Polis Diraja Malaysia
SOV	Single Occupant Vehicle
OKU	Orang Kelainan Upaya