CENTRE OF STUDIES FOR BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

STUDENT PERCEPTION'S ON AIR CONDITIONING PERFORMANCE IN UITM SHAH ALAM

MUHAMMAD SHAFIQ BIN ZAHARI (2012619994)

Bachelor of Building Surveying (Hons)

June 2014

CENTRE OF STUDIES FOR BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

STUDENT PERCEPTION'S ON AIR CONDITIONING PERFORMANCE IN UITM SHAH ALAM

"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	: Muhammad Shafiq Bin Zahari
Signature	:
÷	
UITM No.	:
Date	: July 21 st , 2014

Ħ

ACKNOWLEDGEMENT

I am grateful to Almighty which given me strength and chance for me to complete my studies according to the deadline. There also have so much people who support me from behind and give me strength to complete this studies. There are people also help me in shared idea, giving input and etc. in processing and preparing this study. I would like to express my deepest and appreciation to all of them who give me direction and help me in completion of this study especially my supervisor, Prof. Madya. Sr. Dr. Hj. Ahmad Ezanee Hashim for his encouragement, guidance , attention, advices, and motivation during progression with all his patience and knowledge. I attributed the level of the bachelor to his encouragement and effort and without him this thesis would never be completed.

I would also to appreciate and gratitude to Thesis Coordinator, Pn. Sr. Rohimah Khoiriyah Harahap for giving me guidance throughout the preparation of this report. I am also giving thanks to the Centre of Studies Building Surveying lecturer for involving indirectly to completion of this report.

In my progress making of this study, i would gratitude to all my fellow friends with their help, support and motivation. Their opinion, tips, and advice for me make the study useful and helpful. Finally but not least, I would like to thanks to my parents, Mr. Zahari bin Sanip and Mrs. Rozita binti Teguh for supporting and motivation to continue completing this study. With their pray me, Make me feel easier to achieved this completion.

Thank You,

ABSTRACT

The aim of this research is to study on the performance on air condition system toward the student in UiTM Shah Alam. It is established to identify the perception of students during the learning process in the Lecture room and Lecture hall. It is also to investigate the maintenance management of the air condition system in the Uitm Shah Alam. The research is done on the Faculty Architecture, Planning and Surveying (FSPU), Faculty Art and Design (FSSR) and Faculty Mechanical Engineering (FKM) with participation of student in getting perception of air condition system performance in their learning area. The dissertation meant to identify the perception of the student regarding the air condition system in the lecture room. Besides, it is subjected to study the maintenance management toward an air conditioning system in the classroom at Uitm Shah Alam and to propose the maintenance program for improving maintenance program provided. The research is involved the questionnaire with respondent comprise of the student and formal interview with maintenance management staff in the Uitm Shah Alam. Based on the result, the student is not satisfied on the performance of the air conditioning system provided in the learning space in the Uitm Shah alam. The result also shows the preventive maintenance is currently use by the maintenance management to maintain all air conditioning system in the Uitm Shah Alam. The introducing of the Condition Based Maintenance to be added in the maintenance program will help to improved the maintenance management to rectify and maintain the air conditioning system in the classroom. With this also made to improve the satisfaction of the student regarding the air conditioning system provided in a classroom. The research also will provide the proposals to improve the maintenance management and altogether will improve the perception of the students.

TABLE OF CONTENT

Contents

ACKNOWLEDGEMENT i	i
ABSTRACTiv	v
TABLE OF CONTENT	v
LIST OF FIGURESi	x
LIST OF TABLESx	i
CHAPTER 1	1
1.1 Introduction	1
1.2 Problem Statement	2
1.3 Aim	3
1.4 Objective	3
1.5 Scope of study	3
1.6 Limitation	ļ
1.7 Methodology	ł
CHAPTER 2	5
2.1 Introduction	5
2.1 Perception6	5
2.2 Ventilation	7
2.3 Natural Ventilation	7
2.4 Mechanical Ventilation	3
2.5 Advantage and Disadvantage of ventilation)
2.6 Heating, Ventilating and Air conditional (HVAC) System)
2.7 Purpose of the air condition system11	L
2.8 Type of Air Condition System11	L
2.8.1 Window Unit11	L
2.8.2 Split Unit	2
2.8.3 Centralized air conditioning system13	3
2.9 Operation of air condition system15	5
2.9.1 Operation of split unit system15	5