UNIVERSITI TEKNOLOGI MARA

BUS CREW SCHEDULING SYSTEM FOR UNIT KENDERAAN UiTM

SITI FATIMAH BINTI ABIDIN

BACHELOR OF SCIENCE (HONS) INFORMATION SYSTEM ENGINEERING FACULTY OF INFORMATION TECHNOLOGY AND QUANTITATIVE SCIENCES

OCTOBER 2007

ACKNOWLEDGEMENT

With the name of Allah the most Gracious, the most Merciful creator,
I seek His Blessing on His Prophet Muhammad S.A.W

First and foremost, I would like to express my highest gratitude to Allah SWT, the Almighty for granting me the will and strength to finish this research on time. It will be difficult for me to complete this research without His blessing and permission.

I would like to thank my thesis supervisor Puan Juliana Hamka binti Kamaroddin for her support and guidance throughout the course of this project as well as providing me such a valuable advice and help to conduct this research. All the crucial guidance and motivation given by other lecturers are highly appreciated to give me enough strength in completing this thesis.

Next, I would like to express my heartfelt appreciation to Encik Ahmad Shakri bin Tarmuchi, the executive officer at Unit Kenderaan, UiTM Shah Alam, Encik Muhammad Nizam, the ex-executive officer and also Unit Kenderaan crews for their contribution and cooperation towards this research.

Last but not least, I would like to convey my love and care to my family and all my friends and colleagues for giving me all the support and help that I need in making this research a reality. Thank you all for inspiring me in such means that could not be written in words.

ABSTRACT

This research is conducted to assist Unit Kenderaan executive officer to manage the bus crew scheduling activities through an information system in order to provide effectiveness and efficiency of that activity. The purposes of this research are to identify the requirements and data needed in developing Bus Crew Scheduling System (BCSS), to analyze the requirements captured and data gathered to design the BCSS and to develop Bus Crew Scheduling System for Unit Kenderaan UiTM. Interviews, reading journals and study the existing system are among the methods used in conducting this research. This system is developed using Apache Web Server, MySQL Database, phpMyAdmin Database Administrator, PHP programming language and ActiveXperts SMS Messaging Server. This system automates the process of producing bus crew schedule. The officer can keep track the recent status of bus crew to make decision during emergency adjustment of the crew schedule. SMS notification is used as one way to notify the crew for any daily duty replacement. This system also provides crew monthly duty graph to support the officer during the duty distribution. Therefore the development of this system is hoped to be beneficial in term of integrating, transferring, and getting updated data and information faster and easier.

TABLE OF CONTENTS

CHAPTER 3: METHODOLOGY

CHAPTER 4: RESULTS AND FINDINGS