CONSERVATION BUILDING DEFECTS ANALYSIS ON HISTORICAL BUILDINGS

NUR ATIQAH BINTI RAZALI
(2010758437)

Academic Project submitted in partial fulfillment of the requirements for the degree of Bachelor of Building Surveying (Hons) Centre of Studies for Building Surveying Faculty of Architecture, Planning & Surveying

July 2013
CONSERVATION BUILDING DEFECTS ANALYSIS ON HISTORICAL BUILDINGS

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

Students Name : Nur Atiqah Binti Razali
Signature : [Signature]
UiTM No. : 2010758437
Date : July 15th 2013
CONFIRMATION OF ACADEMIC PROJECT AMENDMENTS

This is to confirm that the students has amended his/ her academic project as directed and therefore allowed to compiles

<table>
<thead>
<tr>
<th>Marks</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>B+</td>
</tr>
</tbody>
</table>

Student’s Name : Nur Atiqah Binti Razali  
UiTM No. : 2010758437  
Title : Conservation Building Defects Analysis on Historical Buildings  
Supervisor’s Name : Sr, Ghazali Mohd Amin  
Signature :  
Date : July 15th 2013
ACKNOWLEDGEMENT

First of all, I would like to thank Allah S.W.T for allowing me to accomplish this project work in time. In preparing this academic project, I was in contact with many people, researchers, academicians, and practitioners. They have contributed toward my understanding and thoughts. In particular, I wish to express my appreciation to my main dissertation supervisor, Sr. Ghazali Bin Mohd Amin, who gives me support and guidance during my study and research, for invaluable assistance, guidance, and understanding throughout the research work and especially during the writing of this thesis. Without their continued support and interest, this dissertation would not have been the same as presented here.

Through this study and report writing, they had thought me to be more systematic and professional in my works. I am very grateful to the Building Management Department of the related case study that have supported and helped me in responding to the questionnaire and reacted kindly to my entire question in the interview. I am also indebted to Universiti Teknologi MARA (UiTM) for funding my degree study. Librarians at UiTM, Perpustakaan Tun Abdul Razak (PTAR), and fellow lecturers also deserve special thanks for their assistance in supplying the relevant literatures.

I am especially thankful to my parents for their patient and understanding throughout my study and during the writing of this project report. Last but not least, my sincere thanks go to the Faculty of Architecture, Planning and Surveying for giving me the opportunity to pursue the Bachelor of Building Surveying (Hons).
ABSTRACT

The issue of this research is to find the usually defects occurred to the historical building in Malaysia. The purpose of this research is to identify and analyze the cause of defects happened. Besides that, within the completely research, we can identify the locations of the defects happened to the historical buildings in Malaysia. Besides that, we can analyzed of main defects happened to the historical buildings. This research mostly focused on the conservation defect analysis on historical buildings in Malaysia. As we know, building in Malaysia most exposed to the defects because of the climatic action. Some of these historic buildings in Malaysia are structurally sound and have undergone physical transformations to adapt to climatic conditions as well as the local way of life. Building defects usually occur in most historical buildings in Malaysia. Issues and problems related to building defects should be given serious attention and addressed promptly as they may damage the original architectural designs and materials that are applicable to the historical buildings in the long run.

The focused case study of this research is the conservation buildings. Conservation buildings also can expose to the defects happened. It found that there are some conservation work approaches adopted in the project site which do not meet the conservation principles, philosophy and ethics as required by the international standard. So that, it also can give building damage or defects to the historical buildings in Malaysia. The techniques, methods and material that been use to build and construct the buildings is a main concern in conservation projects. There have several techniques or methods of building conservation that are restoration, preservation and reconstruction. Other than that, those techniques also need right considerations before conservation works was starting. It is important to avoid any damage and accident to the people and building in the current and future.