



**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING,
MARA UNIVERSITY OF TECHNOLOGY**

**THE CONSTRUCTION AND MAINTENANCE OF
MOSQUE DOMES**

This academic project is submitted in partial fulfillment of the
requirement for the Bachelor Of Building Surveying (Hons.)

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In the name of Allah, the most gracious and most merciful

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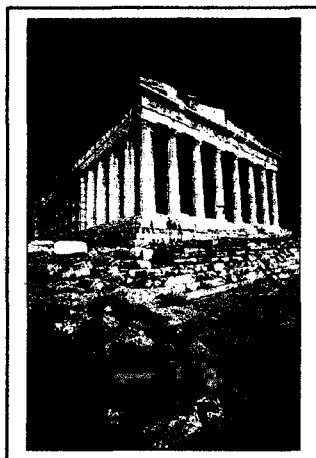
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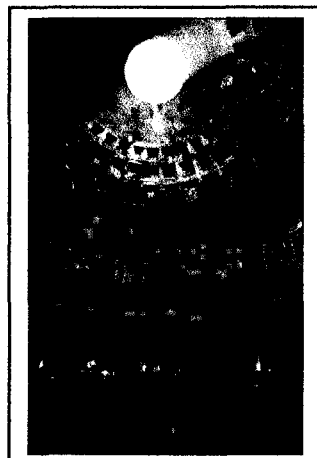
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ABSTRACT

They have been called "the kings of all roofs," and they cover some of our most important buildings. Domes are curved structures they have no angles and no corners and they enclose an enormous amount of space without the help of a single column. Despite their thinness, domes are some of the strongest and stiffest structures in existence today.



Columns and roof
Pantheon Athens,
Greece



Masonry Dome
Pantheon interior
Rome, Italy

The objective of this dissertation is to study of idea and concept, types and category of domes is explained to understand the development of design progressively. The great intention of the dissertation is to energize the construction and maintenance aspect of dome. As domes is representing an aesthetically sensitivity, it do influence the architect to design a remarkable gigantic domes in order to create an extraordinary looks, Therefore some of

the design is hardly be constructed because it consist of very complicated erection and fabrication work.

Moreover, less of concerning in maintenance has make the design considered failed. The awareness in using materials to meet the effect of deterioration is not be accounted because they are only think about the beautiful and attractive of design. The dissertation covers about various types of domes with various construction methods and regarding all which is relevant to the topic including identification on types of maintenance work carried out by the maintenance organization. Due to that, it will identify the use of materials of domes relation to the effect of maintenance aspect. It also defines the maintenance work carried out by each domes and get to know how the maintenance organization over come the maintenance works accordingly.

At the end of the dissertation, the writer has finalized the conclusion and recommendation through personal observation and professional opinion in order to get a better understanding on domes design, construction and maintenance as well.

CHAPTER 1

1.0	INTRODUCTION	1
1.1	ISSUE	2
1.2	OBJECTIVE	4
1.3	SCOPE	4
1.4	METHODOLOGY	5
1.5	GUIDES TO THE DISSERTATION	7

CHAPTER 2

2.0	INTRODUCTION	10
2.1	DEFINITION OF DOME	11
2.2	HISTORY OF THE DEVELOPMENT OF DOMES	12
2.3	ARCHITECTURAL STYLES OF MOSQUES IN MALAYSIA	15
	<i>2.3.1 Vernacular Mosques (18th century to date)</i>	16
	<i>2.3.2 Colonial Mosques (1795 to 1957)</i>	17
	<i>2.3.3 Modern Mosques (1958 to date)</i>	19
2.4	THE SCENARIO OF DOMES IN MALAYSIA	22
2.5	THE AESTHETICAL VALUE OF DOMES	25
	<i>2.5.1 Decorations</i>	26
	<i>2.5.2 Lantera or Crown (known as kallas)</i>	26
	<i>2.5.3 Openings</i>	26
2.6	THE IDEA AND CONCEPT OF DOME	28
2.7	DOMES CONSTRUCTION	30
2.8	FACTORS TO BE CONSIDERED IN CONSTRUCTING DOMES	31
	<i>2.8.1 Accordance To Design Factor</i>	31
	<i>2.8.2 Accordance To Construction Factor</i>	32
	<i>2.8.3 Accordance To Environmental Factor</i>	34
2.9	CONSTRUCTION METHOD OF DOMES	37
	<i>2.9.1 Timber Domes Construction</i>	37