

**ESTIMATE COST FOR AN ELECTRICAL INSTALLATION
DESIGN USING SOFTWARE**

Thesis presented in partial fulfillment for the award of the

Bachelor in Electrical Engineering (Hons)

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ABSTRACT

The title of this project is estimate cost for an electrical installation design using software. This project concerns about how to automation and estimate costing for an electrical installation.

Traditionally, costing for an electrical installation is usually using a calculator. These methods are wasting time and not efficient. By introducing new software, this problem can be solved.

The software employed on the spreadsheet and Microsoft Access. By using this software, it can estimate the calculations required with manual methods instructions in the operating system tell the computer how to perform the type of functions. Beside that, it can integrate the drawing and cost for final costing of the project.

By apply this software, it can optimization the cost and integrate the design until optimum values achieved. This software also used to calculate and recalculate cost in automatically without any error and more efficient. . The most important function that the software builds performs for the consultant are to solve problem far faster than otherwise and it will becomes easier.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The process of designing electrical installation includes integrating the various demands imposed by the involved disciplines into a system of interacting elements. Usually, he or she does this step-by-step – a time-consuming process. Furthermore, the design is supposed to perform well in terms of costs, resources and construction time.

For example, base on the site, quantity and complexity of the design, it will determine the total cost of the project. This raises the question why computer-aided optimization is hardly ever applied in building design as a supporting tool in this search.

The software is making user much easier to organize data, complete calculations, make decision and develop professional looking reports.

In spreadsheet, it requires a flat or non-relational view of your data (not need a relational database with multiple tables). But different with Microsoft access, it requires a relational database (multiple tables) to store a data and may need to add more tables in the future to an originally flat or non-relational data set. It also can design and build complete application.

A Microsoft Access is an integrated collection of data, organized to meet the needs of multiple users in an organization. A database system involves the data itself, the hardware on which the data resides, the software that controls the storage and retrieval of data, and the user themselves