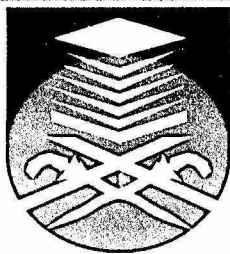


**ELECTRICAL DESIGN FOR POLICE HEAD QUARTERS  
COMPLEX**

**This thesis presented in partial fulfillment for the award of the  
Bachelor in Electrical Engineering (Hons)  
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**MOHAMAD ARIFF BIN KARUDDIN  
FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA  
40450 SHAH ALAM, SELANGOR**

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*Mohamad Ariff Bin Karuddin*  
*Faculty of Electrical Engineering*  
*Universiti Teknologi MARA*  
*Shah Alam, Selangor.*

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## **ABSTRACT**

In building design, electrical installation is important, so that power can be distribute at each location required. This proposal describes a case study how electrical distribution is design in a facility. This case study will involve MATLAB program by considering load estimation, lighting design and cable sizing. Load estimation will involve maximum demand and total connected load calculation.

This case study involves the design of Police Head Quarters which comprise of meeting room, general office, lift lobbies and etc. The design of the main switchboard and distribution board is calculation of installation. Besides, this case study will involve the earthing installation that means for calculation of conductive protective circuit cable.

**Keyword:** Illuminance, load estimation, cable sizing, and lighting design

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