

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

EM19

ELECTRICAL SERVICES DESIGN OF A
BUILDING WITH OFFICES

GEORGE HADJIGEORGIOU

JUNE 2007

HIGHER TECHNICAL INSTITUTE

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**ELECTRICAL SERVICES DESIGN OF A
BUILDING WITH OFFICES**

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BY: GEORGE HADJIGEORGIU

JUNE 2007

HIGHER TECHNICAL INSTITUTE	PROJECT NO 3713
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ELECTRICAL SERVICES DESIGN OF A BUILDING WITH OFFICES

By: GEORGE HADJIGEORGIOU

Project report submitted in partial fulfillment of the requirements for award of the Diploma of Technician Engineer in Electrical Engineering of the Higher Technical Institute.

Project supervisor: Mr. C. Chrisafiades
Lecturer in Electrical engineering Department of H.T.I.
Type of project: **INDIVIDUAL**

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SUMMARY

This project deals with the electrical installations and the specialized electrical services of a building with offices, including specifications, drawings and typical calculations of the design.

The design of the electrical installations and the specialized electrical services of a building with offices is represented in this project report.

Objectives:

1. To design the complete electrical installation of a building with offices that includes the following:
 - a. Power
 - b. Lighting
 - c. Telephone and TV distribution
 - d. Lightning protection
 - e. Air condition
 - f. Fire and burglar alarm
 - g. Induction loop system
 - h. Disable persons toilet alarm
 - i. Local Area Network with internet
2. To provide all necessary diagrams, schedule of materials and costing including labour.

Terms and conditions:

1. Three-phase 415 V , 50 Hz , T.T. earthing system
2. Architectural drawing will be provided
3. The IEE Wiring Regulations 16th Edition as currently amended and the local E.A.C. conditions of supply must be complied
4. The illumination design must be in accordance with the CIBS code
5. C.Y.T.A. requirements to be taken into consideration