

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

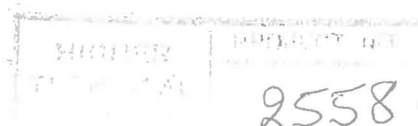
DIPLOMA PROJECT

***DESIGN OF THE ELECTRICAL SERVICES
OF AN OFFICE BLOCK***

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E:1017

JUNE, 1996



**ELECTRICAL SERVICES OF
AN OFFICE BLOCK**

**Project Report Submitted by
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**In part satisfaction of the award of
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in

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CYPRUS**

Project Supervisor: Mr George Kourtellis

Type of project: Individual

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***TO MY PARENTS, CHRISTODOULOS
AND THEKLA AND TO MY BROTHERS
DEMOS AND MARIOS***

ACKNOWLEDGEMENTS

I would like to express my sincere thanks to my project supervisor Mr. George Kourtellis, for his valuable advise and quidance during the whole process of this project, and the useful informations about electrical installations learned to us through lectures during the first, second and third year in H.T.I.

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GENERAL INTRODUCTION

The design of the electrical services of an office block are represented in this project.

The building consist of the basement the ground floor the mezzanine the first second third fourth and fifth floor.

The main objectives of this project are:

1. To design the complete electrical installation of an office block which include the following:
 - (a) Power
 - (b) Lighting
 - (c) Telephone distribution.
2. To provide all necessary diagrams, schedule of materials and costing including labour.

Terms and Conditions:

1. Three-phase Vrms 50Hz, T.T. earthing system.
2. The work must be carried out with reference to the architectural drawing provided.
3. The IEE Wiring Regulations 16th Edition as currently amended and the local EAC conditions of supply must be complied with.
4. The illumination design must be in accordance with the CIBS code
5. CYTA requirements were taken in to consideration.
6. The external resistance, is taken to be equal to $z_e=0.5\Omega$

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