

HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DESIGN OF THE ELECTRICAL
SERVICES OF A MULTISTOREY
BUILDING

E.1301

BY: ANDREOU PANAYIOTIS

JUNE 2002

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

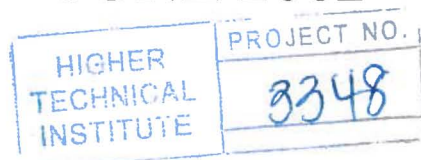
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**DESIGN OF THE ELECTRICAL SERVICES
OF A MULTISTOR BUILDING**

PROJECT REPORT SUBMITTED BY:

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***TO ELECTRICAL ENGINEERING DEPARTMENT OF
HIGHER TECHNICAL INSTITUTE***

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SUMMARY

The purpose of the electrical installation project is the design of electrical services in a multistory building which must be carried out accordance with responsibility in order to provide safety to the people.

The electrical design of the building is carried out according to IEE regulation 16th edition. The fire alarm system design is according BS 5839 and lightning protection system design was made according BS 6651 regulation. For the telephone installation CYTA regulations were considered.

The design of the electrical services of the building is explained in details in the book. The book has been divided into different chapters. The contents of the book and of each chapter are given at the beginning. All the electrical design calculation are included in argitegtuar drawing which provided. At the end of the book there are appendices. In each appendix there are tables and manufactures data used in the design, for each equipment.

INTRODUCTION

Design of electrical services of a multi-store building as the title of this project

The objectives of this project are:

1. To design the complete electrical installation of a multi-store building which include the following:

- Lighting
- Power
- Telecommunication
- Fire alarm
- Lightning protection

2. To provide all necessary drawing, schedule of material and costing including labour.

Terms and conditions:

1. Architectural drawing will be provided.
2. Three phase supply 415 Volts, 50 Hz, and TT earthing system must be used.
3. The IEE regulation 16th and all related local EAC conditions of supply should be considered.
4. Levels of illuminations must in according with the CIBS code.
5. Telecommunications must confine with CYTA requirements.
6. In the design of the specialized services all appropriate standards and regulations must be considered.