



**HIGHER TECHNICAL INSTITUTE**

**ELECTRICAL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

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

E.1436

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JUNE 2009

HIGHER TECHNICAL INSTITUTE	PROJECT NO
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MULTISTORY BUILDING**

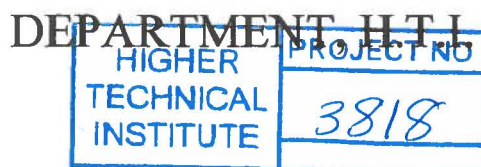
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STAVROS CHARALAMBOUS**

**TO THE DEPARTMENT OF ELECTRICAL  
ENGINEERING OF THE HIGHER  
TECHNICAL INSTITUTE  
NICOSIA – CYPRUS**

**IN PARTIAL REALISATION OF REQUIREMENTS FOR  
THE DIPLOMA OF**

**TECHNICIAN ENGINEER  
IN  
ELECTRICAL ENGINEERING  
JUNE 2009**

**PROJECT SUPERVISOR: Mr IOANNIS DEMETRIOU  
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# CONTENTS

ACKNOWLEDJEMENTS.....	5
SUMMARY.....	6
INTRODUCTION.....	7
<u>CHAPTER 1</u>	
LIGHTING CIRCUIT DESIGN	
1.1 Introduction.....	8
1.2 Typical calculations.....	8
1.3 Table of results.....	10
<u>CHAPTER 2</u>	
SOCKET OUTLET CIRCUIT DESIGN	
2.1 Introduction.....	11
2.2 Typical calculations.....	11
2.3 Table of results.....	15
<u>CHAPTER 3</u>	
FIXED APPLIANCES CIRCUIT DESIGN	
3.1 Introduction.....	16
3.2 Typical calculations.....	16
3.3 Table of results.....	18-20
<u>CHAPTER 4</u>	
AIR CONDITIONS CIRCUIT DESIGN	
4.1 Introduction.....	21
4.2 Selection of units.....	21
4.3 Typical calculations.....	21
4.4 Table of results.....	24-25
<u>CHAPTER 5</u>	
TELEPHONY DESIGN	
5.1 Part A.....	26
5.2 Table for D.C. A.....	26
5.3 Conduit schematic.....	27

<u>CHAPTER 6</u>	
ANTENNA DESIGN.....	28
<u>CHAPTER 7</u>	
DOORPHONE DESIGN.....	29
<u>CHAPTER 8</u>	
<u>EARTHING AND BONDING</u>	
8.1 Introduction.....	30
8.2 Main equipotential bonding.....	30
8.3 Bonding conductor.....	30
8.4 Supplementary conductor.....	30
<u>CHAPTER 9</u>	
<u>INSPECTION AND TESTING</u>	
9.1 Introduction.....	31
9.2 Visual inspection.....	31
9.3 Testing.....	31
<u>CHAPTER 10</u>	
DIVERSITY AND BALANCE.....	32-37
<u>CHAPTER 11</u>	
DIVERSITY AND BALANCE.....	38-53
<u>APPENDICES</u> .....	54-84
<u>CONCLUSION</u> .....	85
<u>SINGLE LINE DIAGRAMS AND DRAWINGS</u>	

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## SUMMARY

The purpose of the project is to examine and study the electrical services of a multistory building . The whole design is carried out according to the IEE wiring regulations 16<sup>th</sup> edition , to EAC and to CYTA regulations .

The main body is divided to 11 chapters in order to simplify the study of the project .Also specifications , appendices , single line diagrams and architectural drawings are included .



## INTRODUCTION

The multistory building is consisted of a ground floor, two floors and a roof.

At the ground floor there is a parking place, stores and electrical rooms. Each floor has seven apartments.

### Objectives of the project:

1. To design the complete electrical installation of a multistory building which includes the following:
  - (i) Power (sockets, A/C, fixed appliances)
  - (ii) Systems (telephone, TV, doorphone)
  - (iii) Lighting
2. To provide all necessary diagrams, schedule of materials and costing including labor.

### Terms and Conditions:

1. Three-phase 415 Vrms 50Hz, TT. earthing system
2.  $Z_{\text{external}} = 0,35\Omega$
3. architectural drawing will be provided
4. The IEE Wiring Regulations 16<sup>th</sup> Edition as currently amended and the local EAC conditions of supply must be complied
5. The illumination design must be in accordance with the CIBS code
6. CYTA requirements to be taken into consideration,