

**HIGHER TECHNICAL INSTITUTE**

**ELECTRICAL ENGINEERING  
DEPARTMENT**

**DIPLOMA PROJECT**

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

**E1402**

**PAVLOS**

**CHRISTOFOROU**

**JUNE 2006**

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# INTRODUCTION

The project deals with the design of electrical services of a multi-storey building (block of flats).

This building consists of one floor with four flats, large parking in the basement and a ground floor with four flats.

The design of each one of the services in the building was in accordance with the appropriate regulations in the sector. After each one of the regulations was applied care was taken to obey it when selecting the appropriate materials and when calculating all the results used. Here the diversity factor taken into account was considered according to the needs of the building.

## Main objectives of the project

1) To design the complete electrical installation of a multi-storey building which includes the following:

- (i) Power
- (ii) Lighting
- (iii) Telephone and TV distribution
- (iv) Lightning protection

2) To provide all necessary diagrams schedule of materials and costing including labour.

## Terms and conditions

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