

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DESIGN OF THE ELECTRICAL SERVICES
OF A BLOCK OF FLATS

E.1204

BY: STEPHANOU CHRISTIANA

JUNE 1999

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING COURSE

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HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3000
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Design of the electrical installation of a block of flats.

Project submitted by Stephanou Christiana, in part satisfaction of the award of Diploma of the Higher Technical Institute.

Project supervisor: Mr. I.Demetriou.

Type of project: Individual
 Group

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Abstract

This project deals with the electrical installation and the central antenna system of a block of flats. The project work includes specifications and tender drawings as well as typical calculations of the design carried out.

The whole design is made according to the relevant for each system Regulations.

SYMBOLS AND ABBREVIATIONS.

B.S.	British Standard
IEE	Institution of electrical engineers
E.F.L.T.	Earth fault logo impedance
M.F.	Maintenance factor
U.F.	Utilization factor
P.F.	Power factor
S/O	Socket outlet
SP&N	Single phase & Neutral
V.D.	Voltage drop
MCB	Miniature circuit breaker
CB	Circuit breaker
DB	Distribution board
DC	Distribution case
CCT	Circuit
%	Percentage

Introduction.

The design of the electrical services of a block of flats is represented in this project, the design deals with the electrical, telecommunication, and central antenna services and it include the following:

1. Electrical Services

- Lighting
- Power

2. Telecommunication services

- Telephone System

3. Central antenna system

The design was carried out according to:

- The 16th edition of the I.E.E regulation and the local EAC conditions of the supply.
- The CYTA requirements for the telephone installations.

The block consist of:

Ground floor includes only the apartment's storage rooms..

First, second and third floor together forming 12 flats.