

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DESIGN OF THE
ELECTRICAL SERVICES
OF A HOSTEL

E. 1255

BY
ANDREAS IOANNOU

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HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

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HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3249
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ELECTRICAL ENGINEERING DEPARTMENT

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Project report submitted by:

ANDREAS IOANNOU

**In part satisfaction of the conditions
for the award of diploma of Technical Engineer
in Electrical Engineering of the
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Ioannou Andreas

SUMMARY

The purpose of this project is to design the electrical services of a hostel as described below:

- The design of central antenna system,
- design of sound distribution network,
- design of security system including access control, CCTV and burglar alarm systems and
- design of the telecommunication services of the hostel by introducing structure cabling system.

The electrical design is based on the sixteenth edition of IEE Wiring Regulations and to E.A.C conditions of supply. Also telecommunication design is based on C.Y.T.A regulations.

Scale of the drawings is 1:200

INTRODUCTION

In this project we deal with the analytical design of the Central Antenna System, Sound Distribution Network, Security system and Telecommunication system of a hostel.

The electrical design is based on the sixteenth edition of IEE Wiring Regulations and to E.A.C conditions of supply. Also telecommunication design is based on C.Y.T.A regulations.

The project includes general theoretical points on the objectives, followed by the actual practical suggestions, which are carried out with reference based on the building's drawings provided and on various standards which are internationally accepted. Finally the design is completed by the selection of proper equipment to satisfy the requirements of the design.

The hostel consists of a basement, a ground floor, mezzanine, first floor and second floor.

The main body of this project is divided into four chapters where detailed results are given for the whole installation design:

Chapter 1 deals with Central antenna system

Chapter 2 deals with Sound distribution network

Chapter 3 deals with Security system

Chapter 4 deals with Telecommunication system