

# HIGHER TECHNICAL INSTITUTE

DESIGN OF THE SPECIALISED  
ELECTRICAL SERVICES

## ELECTRICAL ENGINEERING COURSE

### DIPLOMA PROJECT

Project Report submitted by  
Panayiotou Panayiotis  
DESIGN OF THE SPECIALISED ELECTRICAL  
SERVICES OF A HOTEL

To part satisfaction of the conditions  
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PANAYIOTOU PANAYIOTIS

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## INTRODUCTION

This project deals with the analytical design of the central antenna system, sound distribution system, lighting protection, fire alarm system, emergency-standby supply and also energy management systems of a hotel.

Each design is presented by the theoretical explanations followed by the actual practical suggestions. These suggestions are based on the building drawing provided and on various standards related to the special type of electrical installations which are international, accepted, also the design is completed by the selection of proper equipment to satisfy the requirements of design.

Before starting the design procedure of such systems it is very important to know all possible information related to the installation that is going to be designed. Then care must be taken to select proper equipment to be used through out the installation. The selection must satisfy both factors of best quality and value of money. The construction of the equipment and the facilities available must be taken into consideration too. The whole design procedure must be carried out step by step carefully and the calculations of every step must be checked analytically. A very small fault should bring bad results which do not coincide with the initial design requirements.

This specific project deals with the installation of the specialised services in a hotel located in the area of Limassol. The hotel consists of a basement, a ground floor, a mezzanine and six floors. The project is divided into six chapters each one dealing with the services mentioned at the beginning of this introduction.

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