

Design of the electrical services of An Auditorium.

Project report submitted by Socratus N. Socrates in part satisfaction of the award of Diploma of Technician Engineering in Electrical Engineering of the higher Technical Institute Cyprus.

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Type of Project:

Individual

Group

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SUMMARY

This project deals with the electrical services of an Auditorium.

Objectives:

To design the electric service of an Auditorium providing working drawings for the electrical installation will include the following:

1. Electrical services
 - (a) Lighting (stage, audience, emergency)
 - (b) Power
 - (c) Fire alarm system
2. Sound Distribution

The terms and conditions of this project are:

1. The architectural drawing of the Auditorium will be provided.
2. The electrical installation must comply with the 15th edition of the ZEE wiring regulations as currently amended.
3. Three-phase 415V rms supply with the T.T earthing system is available.
4. Lighting should be designed with the CIBS code.

ASSUMPTIONS

1. The working temperature of any circuit will not exceed 35°C
2. Cables are not going to be passed through thermal insulation.
3. Only one circuit will be able to pass through a conduit.
4. $Z_e = 0.6 \Omega$

LIST OF CONTENTS

	Page
ACKNOWLEDGEMENTS	
CONTENTS	-1-
SUMMARY	-1-
ASSUMPTIONS	-1-
CHAPTER 1 Lighting	-1-
Illumination	-1-
Utilisation factor	-1-
Maintenance factor	-1-
Room index	-1-
Mounting height	-1-
Lumens method	-2-
Illumination calculations	-3-
Emergency lighting	-4-
Stage lighting	-6-
Calculations for lighting circuits	-6-
CHAPTER 2 Power	-7-
Introduction	-10-
Calculations for power circuits	-10-
Stage curtain	-10-
Fan coil units	-11-
Ring socket outlets	-12-
Radial socket outlets	-14-
LIFT	-15-
CHAPTER 3	
Zb, mcb size, live + neutral csa for lighting and power circuit	-17-
CHAPTER 4	
Main cables calculation	-23-

	Page
CHAPTER 5	
Balancing	-25-
CHAPTER 6	
Types of fire alarm systems	-26-
CHAPTER 7	
Sound distribution	-32-