

Higher Technical Institute
MECHANICAL ENGINEERING COURSE

DIPLOMA PROJECT

DESIGN AND CONSTRUCTION OF AN
ATMOSPHERE - CONTROLLED INCUBATOR

BY
IOANNIDES GEORGIOS
M/

JUNE 1999

HIGHER TECHNICAL INSTITUTE

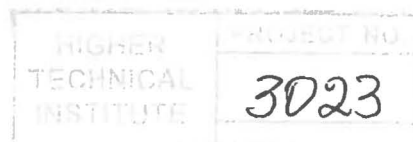
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**Design and Construction of an Atmosphere
Controlled Incubator**

by

Ioannides Georgios Zacharia

This project is submitted to
the Department of Mechanical Engineering of the Higher
Technical Institute

**Nicosia
Cyprus**

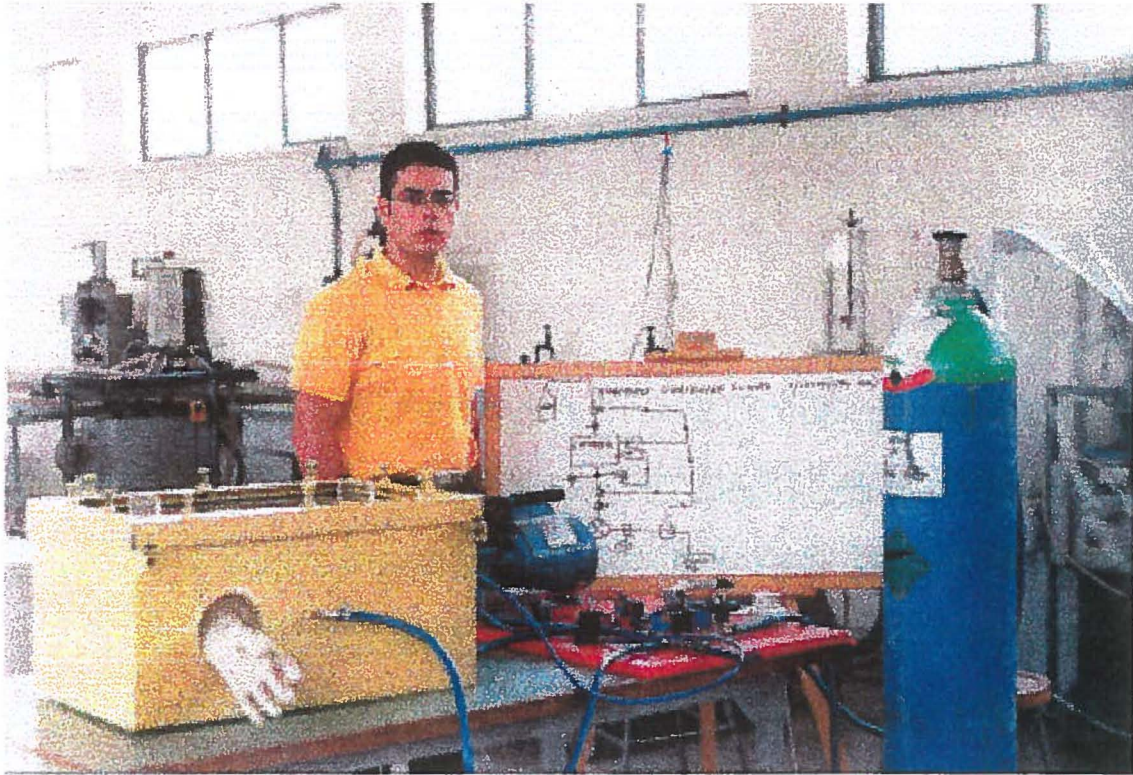
In partial fulfillment of the requirements for the diploma of

**TECHNICIAN ENGINEER
in
MECHANICAL ENGINEERING**

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HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3023
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DESIGN AND CONSTRUCTION OF AN ATMOSPHERE CONTROLLED INCUBATOR



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June 1999

Ioannides Georgios

ABSTRACT

Design and Construction of an Atmosphere Controlled Incubator.

By: IOANNIDES GEORGE ZACHARIA

Project supervisor: Dr. Nicos Angastiniotis

The project entailed the design and construction of an atmosphere controlled chamber.

At first, the design of the incubator was conceived and scale drawings were drawn. At the same time the design of the controller was conceptualized and the required components were incorporated on the basic framework.

Then based on the cost parameters, the demands and the conditions that were to be maintained by the device, the selection of the appropriate material was made and the construction was off to start.

The electrical constituent of the controller was bought, assembled and then programmed and fitted to the device.

The outcome was not a high capacity and expensive atmosphere controlled incubator, but the design and construction of an incubator that provides the main functions and conditions for a model that can certainly be improved for enhanced performance.