

216122

HIGHER TECHNICAL INSTITUTE

COURSE IN COMPUTER STUDIES

DIPLOMA PROJECT

MULTIMEDIA EDUCATIONAL SYSTEM

FOR HTI MATHEMATICS

CS/219

DEMETRIS PIJOLIS

JUNE 1999

HIGHER TECHNICAL INSTITUTE	PROJECT NO. 3049
----------------------------------	-------------------------

Project - Summary

The Computer Studies Department of Higher Technical Institute has assigned me the development of a Multimedia Educational System for HTI Mathematics in order to get my diploma. The project seemed to me very challenging and interesting. On the other hand I was told that I have a lot of work to do in order to satisfy the requirements and conditions of the project.

The main purpose of the project is to develop a system that can be used by both HTI lecturer and HTI Students. The HTI lecturer will be able to prepare tutorials and tests, while students will be able to solve tutorials and tests and getting their performance. The second part of the project is the theory which both students and HTI can read at any time. The project must be developed in a graphical environment.

The project is to be designed in such a way that it can satisfy a wide range of users.

TABLE OF CONTENTS

TITLES	PAGE
Summary	1
Introduction	2
1. Investigation Phase	
1.1 Initial Investigation Report	
1.1.1 Introduction	3
1.1.2 Information about H.T.I mathematics	3
1.1.3 Consideration of the system	4
1.2 Feasibility Study	
Introduction	4
1.2.1 Technical Feasibility	4
1.2.2 Schedule Feasibility	7
1.2.3 Operational Feasibility	8
2. Analysis and General Design Phase	
2.1 Existing System Review	9
2.2 New System Requirements	9
2.3 New System Design	10
2.4 Implementation and Installation Planning	11
2.4.1 Preliminary Implementation Plan	12
2.4.2 User Training Outline	16
2.4.3 Preliminary Installation Plan	16
3. Detail Design and Implementation Phase	
3.1 Technical Design	
Introduction	17
3.1.1 Detailed Design Specification Document	17
3.2 Test Specification Planning	
Introduction	19
3.2.1 Program Test Specification	19
3.2.2 Test Plan	21
3.2.3 User Training	22
3.2.4 System Test	23
4. Installation Phase	
4.1 System Installation	24