

**HIGHER TECHNICAL INSTITUTE**

**( H.T.I )**

**COMPUTER STUDIES COURSE**

**DIPLOMA REPORT**

**SIMULATION PACKAGE FOR ADVANCED OPERATING SYSTEM**

**CONCEPTS AND OPERATING SYSTEM DESIGN ALGORITHMS**

**CS / 262**

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# **SIMULATION PACKAGE FOR ADVANCED OPERATING SYSTEM CONCEPTS AND OPERATING SYSTEM DESIGN ALGORITHMS**

## **INTRODUCTION**

This project is going to be developed in a partial fulfilment of the requirements for the award of the Diploma in Computer Studies.

The goal of this project is the production of a simulation package to present, explain and actually simulate algorithms, schemes taught in the “Advanced Operating System Concepts” and “Operating System Design” courses at Higher Technical Institute.

The project objectives are the following:

To analyse, design and develop a user-friendly simulation package to present, explain and actually simulate algorithms taught in the courses mentioned above.

The use of a graphic presentation method for the results was required, so we have decided to use the combination of Turbo Pascal and Microsoft Access, which both support the design of screens. Turbo Pascal is used for the main part of the project, that is the implementation of the algorithms, because it supports the use of graphics. This will make the system more attractive and will motivate the user to use it with pleasure and not just because he is forced to do so.

OSCSP is going to include the Example and Practice sessions among all other options. Both sessions can help the user in understanding the various

aspects better and easily. The user can input his own data and practice himself and compare the results with different numbers.

Charts and images are going to be designed on the screen in order to illustrate graphically the implementation of the algorithms.

Finally, On line help is going to be provided for both types of screens. Explanations of all buttons used together with additional information concerning the entire system will be provided.

## CONTENTS

	Page
ACKNOWLEDGEMENTS	1
INTRODUCTION	2
<b>CHAPTER 1 – INVESTIGATION PHASE</b>	
1.1 INTRODUCTION	4
1.2 INITIAL INVESTIGATION	
1.2.1 Activity Description	6
1.2.2 Project Request Evaluation	7
1.2.3 Existing System Information	
1.2.3.1 Problems of the Existing System	10
1.2.3.2 Existing System Inputs	11
1.2.3.3 Existing System Outputs	11
1.3 FEASIBILITY STUDY	
1.3.1 Activity Description	12
1.3.2 Feasibility Study Considerations	
1.3.2.1 Financial Feasibility	13
1.3.2.1.1 Developmental Costs	13
1.3.2.1.2 Operating Costs	14
1.3.2.2 Technical Feasibility	16
1.3.2.3 Operational Feasibility	17
1.3.2.4 Schedule Feasibility	18
1.3.2.5 Human Factors Feasibility	18
1.4 INFORMATION GATHERING	20

## CHAPTER 2 – ANALYSIS AND GENERAL DESIGN PHASE

2.1 INTRODUCTION	22
2.2 EXISTING SYSTEM REVIEW	
2.2.1 Activity Description	23
2.2.2 Organisation	23
2.2.3 Current System Inputs	24
2.2.4 Current System Outputs	24
2.2.5 Description of the Current Processing	24
2.3 NEW SYSTEM REQUIREMENTS	
2.3.1 Activity Description	26
2.3.2 User Specification Document	
2.3.2.1 Overview Narrative	26
2.3.2.2 System Functions	27
2.3.2.3 Processing	28
2.3.2.4 Data Dictionary	28
2.3.2.5 Inputs for the user	29
2.3.2.6 Outputs to the system	29
2.3.2.7 User Interface with the System	29
2.4 NEW SYSTEM DESIGN	
2.4.1 Activity Description	30
2.4.2 Data Files	30
2.4.3 Performance Criteria	30
2.4.4 Security and Control Mechanisms	31
2.5 IMPLEMENTATION AND INSTALLATION PLANNING	
2.5.1 Activity Description	32
2.5.2 Preliminary Detailed Design and Implementation Plan	32
2.5.3 Preliminary System Test Plan	32
2.5.4 Preliminary Installation Plan	33

## CHAPTER 3 – DETAILED DESIGN AND IMPLEMENTATION PHASE

3.1 INTRODUCTION	35
3.2 TECHNICAL DESIGN	
3.2.1 Activity Description	36
3.2.2 Human-machine interface Design	36
3.2.3 File Design	37
3.2.4 Application software Design	37
3.3 TEST SPECIFICATIONS AND PLANNING	
3.3.1 Activity Description	38
3.3.2 Unit Testing	38
3.3.3 Integration Testing	39
3.3.4 Function Testing	39
3.3.5 System Testing	39
3.3.6 Acceptance Testing	40
3.4 PROGRAMMING AND TESTING	
3.4.1 Activity Description	40
3.4.2 Programming language	41
3.5 USER TRAINING	
3.5.1 Activity Description	42
3.5.2 User training Schedule	42
3.5.3 User Manual	42
3.6 SYSTEM TEST	
3.6.1 Activity Description	43
3.6.2 System Test for OSCSP	43

## **CHAPTER 4 – INSTALLATION PHASE**

4.1 INTRODUCTION	44
4.2 FILE CONVERSION	
4.2.1 Activity Description	45
4.3 SYSTEM INSTALLATION	
4.3.1 Activity Description	45

## **CHAPTER 5 – REVIEW PHASE**

5.1 INTRODUCTION	46
5.2 DEVELOPMENT RECAP	
5.2.1 Activity Description	47
5.2.2 Development Recap for the new system	47
5.3 POST-IMPLEMENTATION REVIEW	
5.3.1 Activity Description	48
5.3.2 Post-Implementation Review for the new system	48
CONCLUSION	49

## **APPENDICES**

A – Project Specifications

B – SDLC Activities

C – Gantt Chart

D – Processing

E – Data Dictionary

F – Module Structure Charts

G – References