

**HIGHER TECHNICAL INSTITUTE**

**COURSE IN COMPUTER STUDIES**

**DIPLOMA PROJECT**

**BANK PAYROLL**

**CS / 308**

**BY**

**EVDOKIA KOLIA**

**JUNE 2004**

HIGHER TECHNICAL INSTITUTE	PROJECT NO
	3471

## **Chapter 1**

### **Investigation Phase**

#### **Introduction**

**The system that will be developed Hellenic Bank's Payroll System.**

**The system will produce the Payslips for the monthly payment of employees and many other printed reports. The system under development must be an online system (not a batch system) using PCs and networks for quick access of information and efficiency. The database must be stored at the Human Resource department which is in charge of preparing the payroll.**

## **1.1 Initial Investigation Activity – Activity 1**

### **1.1.1 Introduction**

**In order to study and design a Bank Payroll system for the Hellenic Bank various data has been gathered.**

**The existing system that the Hellenic Bank follows has been examined as to understand the procedures carried out and be able to identify advantages and disadvantages of the existing system.**

**Solutions will be devised and examined to overcome the problems of the existing Bank's system and make it more efficient in terms of productivity, cost of money and time and user services.**

# Table of Contents

	Page Number
<b><u>CHAPTER 1 – INVESTIGATION PHASE</u></b>	
<b>Introduction</b>	<b>1</b>
<b>1.1 Initial Investigation Activity – Activity 1</b>	<b>2</b>
<b>1.1.1 Introduction</b>	<b>2</b>
<b>1.1.2 Information about Hellenic Bank</b>	<b>3</b>
<b>1.1.2.1 Goals (Long – Short Term)</b>	<b>3</b>
<b>1.1.2.2 Policies about the system to be developed</b>	<b>4</b>
<b>1.1.2.3 Main Departments</b>	<b>7</b>
<b>1.1.2.4 Problems</b>	<b>11</b>
<b>1.1.3 Information about the people of the system under Study</b>	<b>12</b>
<b>1.1.4 Information about work</b>	<b>13</b>
<b>1.1.4.1 Description of the existing system</b>	<b>13</b>
<b>1.1.4.2 Control Mechanisms</b>	<b>14</b>
<b>1.1.4.3 Inputs / Outputs</b>	<b>15</b>
<b>1.1.4.3.1 Major Input</b>	<b>15</b>
<b>1.1.4.3.2 Major Output</b>	<b>16</b>
<b>1.2 Feasibility Study Activity – Activity 2</b>	<b>17</b>
<b>1.2.1 Introduction</b>	<b>17</b>

1.2.2 Technical Feasibility	18
1.2.3 Operational Feasibility	20
1.2.4 Financial Feasibility	21
1.2.4.1 Development Costs	21
1.2.4.2 Operational Costs	23
1.2.4.3 Operational Benefits	24
1.2.5 Schedule Feasibility	25
1.2.6 Policy Level Decision	26
<b><u>CHAPTER 2 – ANALYSIS AND GENERAL DESIGN PHASE</u></b>	
2.1 Existing System Review – Activity 3	27
2.1.1 Introduction	27
2.1.2 Review of the existing system	28
2.2 New System Requirements – Activity 4	29
2.2.1 Overview Narrative	29
2.2.2 Processing	29
2.2.3 Data Dictionary	30
2.2.4 Process Description	30
2.2.5 User Interface with the system	31
2.2.6 Conclusion	32
2.3 New System Design	33
2.3.1 Introduction	33

2.3.2 New System Design Specification Document, which Includes	33
2.3.2.1 Performance Criteria	33
2.3.2.2 Security and Control Measures	34
2.4 Implementation and Installation Planning - Activity 6	35
2.4.1 Introduction	35
2.4.2 Preliminary Detailed Design and Implementation Plan	36
2.4.3 Preliminary System Test Plan	38
2.4.4 User Training Outline	39
2.4.5 Preliminary Installation Plan	40
 <b><u>CHAPTER 3 – DETAILED DESIGN AND</u></b>	
<b><u>IMPLEMENTATION PHASE</u></b>	
Introduction	42
3.1 Technical Design – Activity 7	43
3.1.1 Introduction	43
3.1.2 Detailed Design Specification	44
3.1.2.1 Application Software Design	44
3.1.2.2 Backup and Recovery Procedures	45
3.1.2.3 Human Machine Interface	45
3.1.2.4 Security and Control Measures	46
3.2 Test Specifications and Planning - Activity 8	48

3.2.1 Introduction	48
3.2.2 Program Test Specification	49
3.3 Programming and Testing – Activity 9	51
3.3.1 Introduction	51
3.3.2 The process of programming and testing	52
3.4 User Training – Activity 10	53
3.4.1 Introduction	53
3.4.2 User Training Description	54
3.4.3 User manual	54
3.5 System Testing – Activity 11	55
3.5.1 Introduction	55
3.5.2 Complete System Test	56
<b><u>CHAPTER 4 – REVIEW PHASE</u></b>	
Introduction	58
4.1 Post-Implementation Review – Activity 12	59
4.2 Conclusion	59