



De La Salle University - Dasmariñas

**Automated Pre-Registration Enrollment System
Of AMA - Computer Learning Center
(Bacoor Branch)**

8709

**An Undergraduate Thesis
Presented to
The Faculty of the College of Arts and Sciences
De La Salle University-Dasmariñas
Dasmariñas, Cavite**

**In Partial Fulfillment
of the Requirements for the Degree
Bachelor of Science in Computer Science**

by

Mary Ann L. Francisco

Kathrina S. Pagtakhan

March 1999

AKLATANG EMILIO AGUINALDO ARCHIVES



TABLE OF CONTENTS

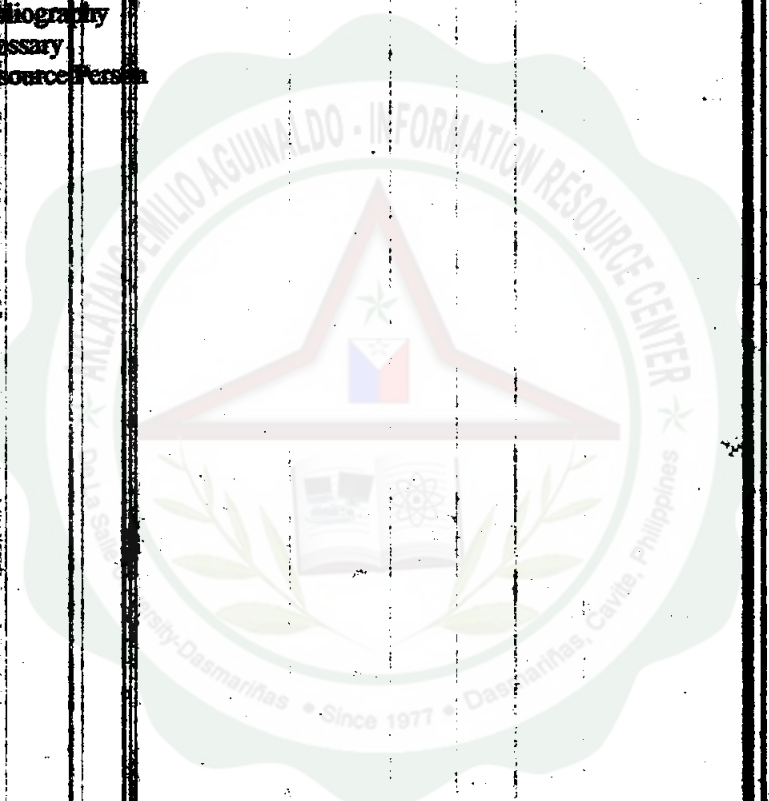
TITLE PAGE

| | |
|---|------------|
| 1.0 The Problem and its Background | 1-1 |
| 1.1 Introduction | 1-1 |
| 1.2 Statement of the Research Problem | 1-1 |
| 1.3 Statement of Objectives | 1-3 |
| 1.3.1 General Objective | 1-3 |
| 1.3.2 Specific Objectives | 1-4 |
| 1.4 Significance of the Study | 1-4 |
| 1.5 Scope and Limitations of the Study | 1-5 |
| 1.6 Methodology of the Study | 1-5 |
| 2.0 Review of Related Literature | 2-1 |
| 3.0 Theoretical Framework | 3-1 |
| 3.1 Statement of Assumptions | 3-1 |
| 3.2 Operational Definitions | 3-1 |
| 3.2.1 Definition of Terms | 3-1 |
| 3.2.2 Definition of Processes | 3-2 |
| 3.3 Theories used in the Study | 3-3 |
| 4.0 The Existing System | 4-1 |
| 4.1 Description of the System | 4-1 |
| 4.2 Definition of Data Capture | 4-1 |
| 4.3 Inputs | 4-3 |
| 4.4 Processes | 4-3 |
| 4.5 Files | 4-4 |
| 4.6 Outputs | 4-5 |
| 4.7 Data Flow Diagram | 4-6 |
| 4.8 Problem Areas | 4-9 |
| 5.0 The Proposal System | 5-1 |
| 5.1 Description of the System | 5-1 |
| 5.2 System Objectives | 5-2 |
| 5.3 System Scope and Limitations | 5-3 |
| 5.4 System Justification | 5-3 |
| 6.0 Design | 6-1 |
| 6.1 Inputs | 6-1 |
| 6.2 Processes | 6-1 |
| 6.3 Files | 6-5 |
| 6.4 Outputs | 6-8 |
| 6.5 Data Flow Diagram | 6-8 |
| 7.0 Implementation | 7-1 |
| 7.1 Resource Requirements | 7-1 |
| 7.1.1 Software Requirements | 7-1 |
| 7.1.2 Hardware Requirements | 7-1 |
| 7.1.3 Human Resource Requirements | 7-2 |
| 7.2 Installation Plan | 7-2 |
| 7.2.1 System Installation | 7-2 |
| 7.2.2 Training Plans | 7-2 |
| 7.2.3 Conversion Plans | 7-2 |
| 7.2.4 Testing | 7-3 |



De La Salle University - Dasmariñas

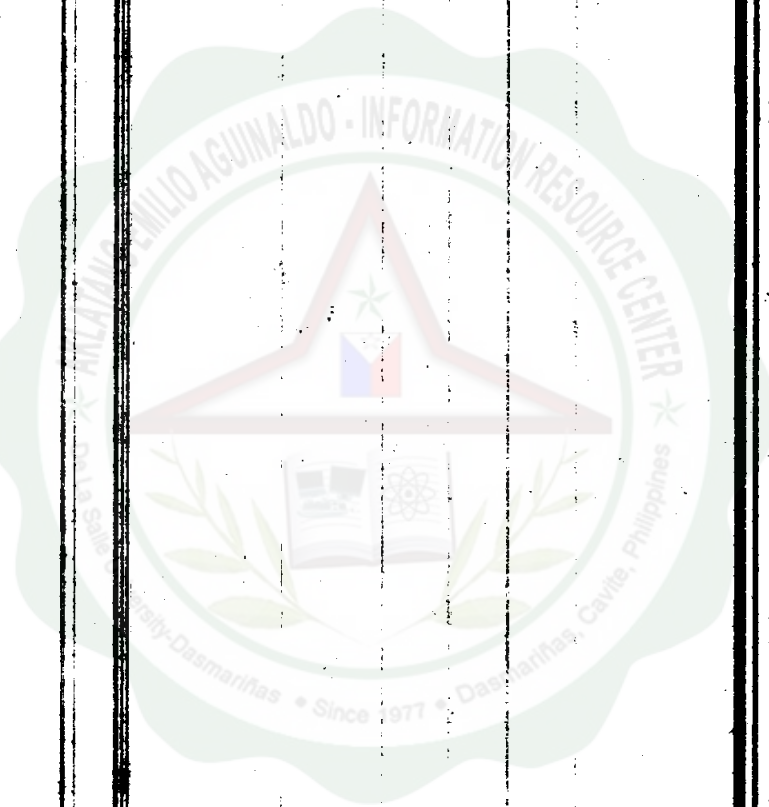
| | |
|------------------------------------|-----|
| 8.0 Cost Benefit Analysis | 8-1 |
| 8.1 Resource Requirement | 8-1 |
| 8.2 Operational Setup | 8-5 |
| 9.0 Conclusions and Recommendation | 9-1 |
| 9.1 Conclusions | 9-1 |
| 9.2 Recommendation | 9-1 |
| Appendices | |
| Bibliography | |
| Glossary | |
| Resource Person | |





LIST OF TABLE

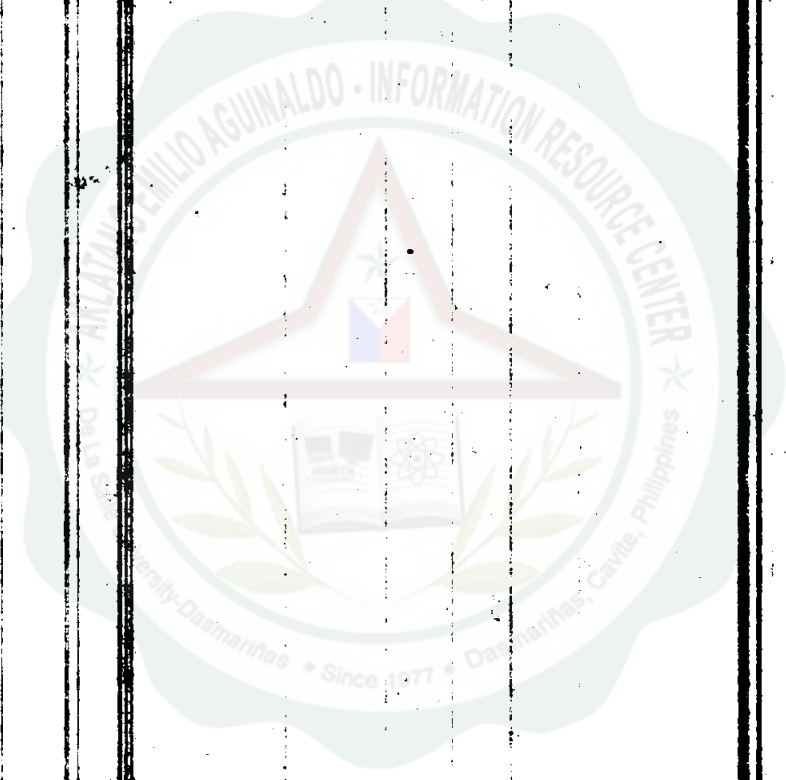
| | | |
|-----------|--|-----|
| Table 8-1 | Cost Benefit Analysis: Net Present Value Computation | 8-4 |
|-----------|--|-----|





LIST OF FIGURES

| | | |
|------------|--------------------------------------|------|
| Figure 1-1 | Prototype Model | 1-1 |
| Figure 4-1 | Context Diagram of Existing System | 4-6 |
| Figure 4-2 | Top Level Diagram of Existing System | 4-7 |
| Figure 4-3 | Expanded Diagram of Existing System | 4-8 |
| Figure 6-1 | Context Diagram of Proposed System | 6-8 |
| Figure 6-2 | Top Level Diagram of Proposed System | 6-9 |
| Figure 6-3 | Expanded Diagram of Proposed System | 6-10 |





APPENDICES

| | | |
|-------------|---|------|
| Appendix A. | Certification of Review Panel | A-1 |
| Appendix B. | Certification of Clearance | A-2 |
| Appendix C. | Certification of Editing | A-3 |
| Appendix D. | Certification of CRC Representative | A-4 |
| Appendix E. | Certification of Adviser | A-5 |
| Appendix F. | E-R Diagram | A-6 |
| Appendix G. | Program Flowchart | A-7 |
| Appendix H. | Normalization | A-18 |
| Appendix I. | Data Dictionary | A-20 |
| Appendix J. | Screen Layout | A-30 |
| Appendix K. | Printed Form Layout | A-38 |
| Appendix L. | Certification | A-39 |
| Appendix M. | Endorsement Slip | A-57 |
| Appendix N. | Registration form of AMA-Computer Learning Center (Registrar, Accounting and Student's Copy) | A-58 |
| Appendix O. | Course Curriculum (Old and New) | A-60 |
| Appendix P. | Course Payment | A-62 |
| Appendix Q. | AMA Vision | A-63 |
| Appendix R. | AMA Mission | A-64 |



ABSTRACT

Automation is a process in which many of the processes are automatically performed or controlled by machinery, electronic devices, or uses equipment to replace people. It makes every activity faster and more accurate compared to manual system. And this kind of method is what AMA-Computer Learning Center wanted to pursue.

^{1/}The Automated Pre-Registration Enrollment System of AMA-Computer Learning Center was developed to give automated solutions to the existing manual system of enrollment. The researchers considers the Management Information System as the kind of system to use in making the pre-registration enrollment system automated for it has the capability to provide standard report for managers about transaction data. ^{2/}The automated system could provide solutions to the problems that AMA-CLC is currently experiencing such as lack of advanced technology, inaccurate database file handling, and delay on start of classes due to unexpected increase in population of the students. ^{2/}

^{3/}The study would show and help the users of AMA-CLC to have a broad understanding of what will be their automated system's features are, their system's functions, and how they will do such operations. ^{3/}The study also provides certain limitations and assumptions in order to know what the proposed system covers, and provides information about how AMA-Computer Learning Center begins to handle such automated system of pre-registration of enrollment.

The study will be for the present and future use because the information that this study provides could be of help if there would be other students who wanted to continue the study and to develop a better enrollment system.