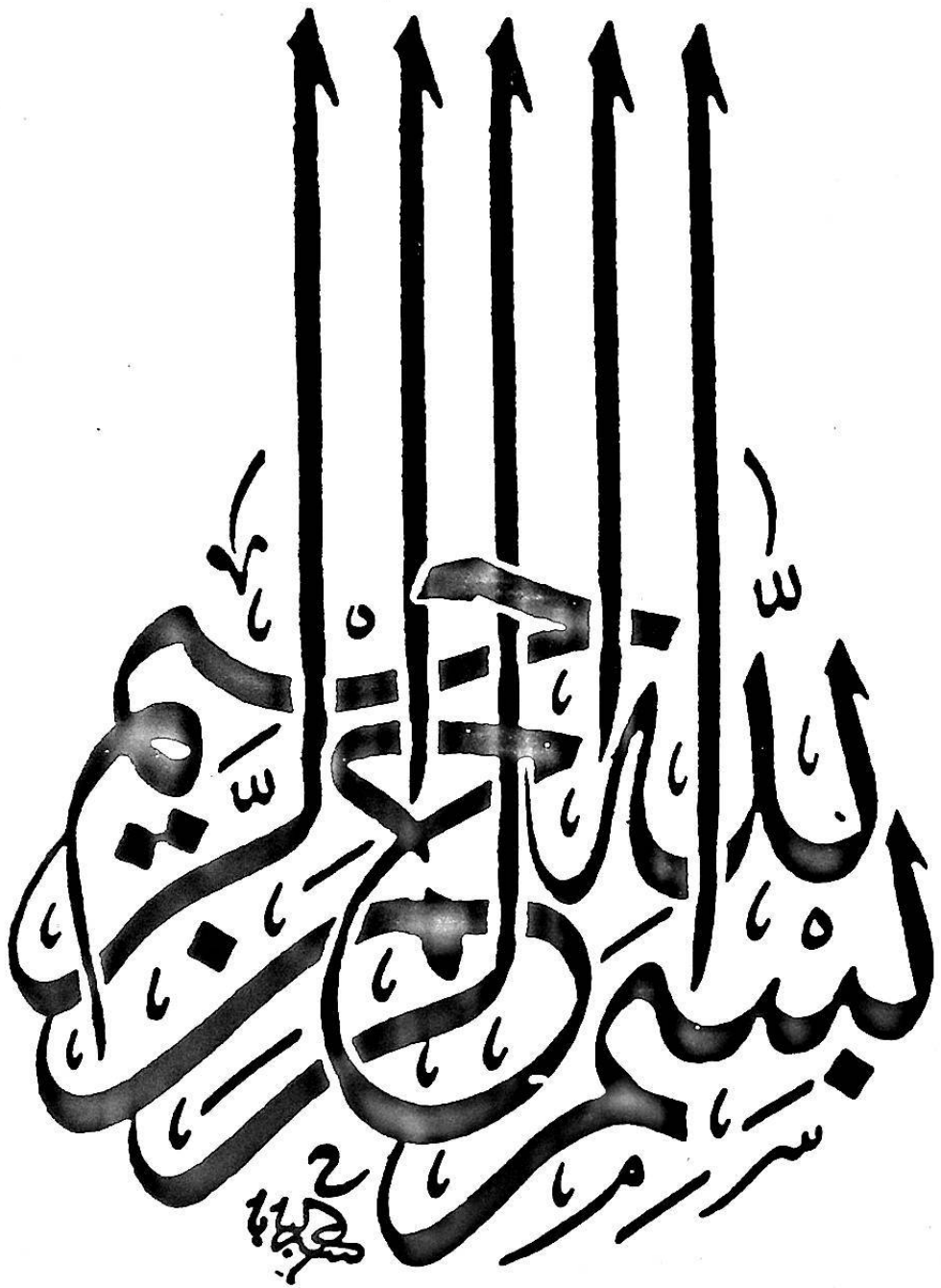



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





A COMPUTERIZED SYSTEM FOR THE PROCESS OF GRADUATION
AT GRADUATION DEPARTMENT

A project report submitted in partial fulfillment
of the requirements for the degree of
bachelor of science
IN
INDUSTRIAL ENGINEERING

BY
ENAYTULLAH R. AHMED
COMP. No. 845495

SUPERVISED BY
DR. MAZEN A. BALELAH 

APPROVED BY
DR. A. A. AL-MOREB 
DR. S. H. AHMED 

INDUSTRIAL ENGINEERING DEPARTMENT
FACULTY OF ENGINEERING
KING ABDULAZIZ UNIVERSITY
JEDDAH, SAUDI ARABIA
SPRING 1410-1411

I DEDICATE

THIS PROJECT TO

MY BELOVED FATHER, MOTHER

AND

MAY GENIAL AND RESPECTED FAMILY

ENAYTULLAH. R. AHMED

ABSTRACT

The objective of this project is to develop computerized system for Graduation department in the Deanship of Admission and Registration of King Abdul Aziz University in Jeddah. The existing system is analyzed and its drawbacks are highlighted. A micro-computer based system is designed. The designed system is called Graduation Data Processing (G.D.P.).

The G.D.P. system is structurally, divided into five modules; print certificate module, report module, files maintenance module, restore data files module and, backup data files module. The G.D.P. system has been developed using dBASE IV, and is completely menu-driven. A user's guide has been included to guide its implementation .

ACKNOWLEDGEMENTS

I would like to express my deep gratitude to ALLAH for enabling me to complete this project . I thank my project advisor DR. Mazen A. Balelah for his advice . I would also like to thank the two co-examiners DR. Al-moreb and DR . S.H.Ahmed . They were both extremely helpful .

TABLE OF CONTENTS

Page NO.

Dedication .	i
Abstract	ii
Acknowledgement	iii
Table Of contents	iv
Last of Tables	vi
List of Figures	vii
Chapter 1 INTRODUCTION	
1.1 University and Industrial Engineer	1
1.2 About the University	2
1.3 Purpose of University	3
1.4 Deanship of Admission and Registration	4
1.5 The objective Of Deanship of Admission & Registration	4
1.6 Area of the Study	5
1.7 System and Graduation Department	5
1.8 Graduation Department and Computer	6
1.9 Subject , Scope and Objective	6
1.9.1 Subject	6
1.9.2 Scope	6
1.9.3 Objectives	7
1.10 Organization of the report	7
Chapter 2 DESCRIPTION OF EXISTING GRADUATION DEPARTMENT	
2.1 Main function of Graduation Department	8

TABLE OF CONTENTS Cont'd.

	Page NO.
2.2 Graduation Department Organization	8
2.3 Employees responsibilities and functions	9
2.4 Input of the existing system	10
2.5 Function of Graduation Department	11
2.6 Output of the existing system	12
2.7 Resources of the existing system	13
Chapter 3 GRADUATION PROCESSING : A NEW PROPOSED SYSTEM	
3.1 The requirements of G.D.P.	14
3.2 Critical Assumptions	15
3.3 Defining system output	16
3.4 The input requirements	17
3.5 Selection of Programming language	18
3.6 The proposed G.D.P. system	18
3.6.1 Database files	22
3.6.2 Command files	23
3.6.3 Index files	45
3.7 System control	46
3.8 Hardware requirements	46
Chapter 4 CONCLUSIONS AND RECOMMENDATIONS	
4.1 Conclusion	47
4.2 Recommendations	48
REFERENCES	49
APPENDICES	50

LIST OF TABLES

Page NO.

3.1 List of files in the computerized system by files type	21
3.2 List of database files	22
3.3 List of index files used by the system	45

LIST OF FIGURES

Figure NO.		Page	NO.
3.1	Basic structure of the system		20
3.2	Basic program structure		25
3.3	Program structure of print certificate module		26
3.4	A sample report showing a certificate		27
3.5	Program structure of reports module		29
3.6	A sample report showing University council's report		30
3.7	A sample report showing statistical report based on college and major		31
3.8	A sample report showing statistical report based on college and nationality		32
3.9	A sample report showing statistical report based on college and grade		33
3.10	Program structure of files maintenance module		35
3.11	A sample form showing graduate student information		36
3.12	A sample form showing college information		37
3.13	A sample form showing major information		38
3.14	A sample form showing degree information		39
3.15	A sample form showing permit information		41
3.16	A sample form showing nationality information		42

LIST OF FIGURES Cont'd.

Figure NO.		Page	No.
3.17	Logic flow chart of restore data files program	43	
3.18	Logic flow chart of backup data files program	44	