

---

# CONTENTS

<b>APPROVAL</b>	<b>ii</b>
<b>SELF DECLARATION AGAINST PLAGIARISM</b>	<b>iii</b>
<b>ABSTRACT</b>	<b>iv</b>
<b>ABSTRAK</b>	<b>v</b>
<b>DEDICATION</b>	<b>vi</b>
<b>ACKNOWLEDGMENTS</b>	<b>vii</b>
<b>CONTENTS</b>	<b>viii</b>
<b>LIST OF TABLES</b>	<b>x</b>
<b>LIST OF FIGURES</b>	<b>xi</b>
<b>LIST OF NOTATIONS</b>	<b>xii</b>
<b>1 INTRODUCTION</b>	<b>1</b>
1.1 Rationale . . . . .	1
1.2 Theoretical Framework . . . . .	1
1.3 Conceptual Framework/Paradigm . . . . .	2
1.4 Statement of the Problem . . . . .	2
1.5 Objective and Hypothesis . . . . .	2
1.6 Assumption . . . . .	3
1.7 Scope and Delimitation . . . . .	3
1.8 Significance of the Study . . . . .	3
<b>2 REVIEW OF LITERATURE AND STUDIES</b>	<b>4</b>
2.1 Related Literatures . . . . .	4
2.2 Related Studies . . . . .	5
<b>3 RESEARCH METHODOLOGY</b>	<b>7</b>
3.1 Research Design . . . . .	7
3.1.1 System/product/method Implementation . . . . .	7
3.1.2 Experiment Scenario . . . . .	7
3.1.3 Evaluation Metrics . . . . .	11
3.2 Dataset . . . . .	11
3.3 Tools for Data Analysis . . . . .	12

---

<b>4</b>	<b>PRESENTATION, ANALYSIS AND INTERPRETATION OF DATA</b>	<b>13</b>
4.1	Presentation of Data . . . . .	13
4.1.1	Experiment Results . . . . .	13
4.2	Analysis of Data . . . . .	13
4.2.1	Main Findings . . . . .	13
4.2.2	Error Analysis . . . . .	14
4.2.3	Baseline Comparison . . . . .	16
<b>5</b>	<b>CONCLUSION AND RECOMMENDATIONS</b>	<b>17</b>
5.1	Conclusions . . . . .	17
5.2	Recommendations . . . . .	17
	<b>BIBLIOGRAPHY</b>	<b>18</b>
	<b>Appendices</b>	<b>20</b>
<b>A</b>	<b>Curriculum Vitae</b>	<b>22</b>