# LIST OF CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEGALIZATION PAGE</td>
</tr>
<tr>
<td>BIOGRAPHY</td>
</tr>
<tr>
<td>ABSTRACT</td>
</tr>
<tr>
<td>ACKNOWLEDGMENT</td>
</tr>
<tr>
<td>LIST OF CONTENTS</td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
</tr>
<tr>
<td>LIST OF TABLES</td>
</tr>
<tr>
<td>LIST OF APPENDIXES</td>
</tr>
</tbody>
</table>

## CHAPTER I. INTRODUCTION

1.1. Background 1
1.2. Problem Identification 4
1.3. Scope of Research 4
1.4. Problem Statements 4
1.5. Research Objectives 4
1.6. Research Significances 5
1.7. Operational Definitions 5

## CHAPTER II. LITERATURE REVIEW

2.1. Nature of Chemistry Concept 6
2.2. Misconception in Chemistry 8
2.3. The Source of Misconception 13
2.4. Misconceptions in Acid-Base Chemistry 16
2.6. Conceptual Framework 21

## CHAPTER III. RESEARCH METHODS

3.1. Overview of the Research 22
3.2. Research Location and Research Time 22
3.3. Population and Sample 23
3.4. Research Instruments
3.5. Technique of the Data Collection
3.6. Technique of the Data Analysis

CHAPTER IV. RESULT AND DISCUSSION
4.1. Description of Result
4.2. Students’ Achievement
4.3. Students’ Understanding
4.3.1. Acid and Base
4.3.2. pH and pOH
4.3.3. Ionization Degree and Equilibrium Constant (K_a and K_b)
4.3.4. Acid-base Indicators
4.3.5. Acid-Base Titration
4.4. Discussion

CHAPTER V. CONCLUSIONS AND SUGGESTIONS
5.1. Conclusions
5.2. Suggestions

REFERENCES