LIST OF CONTENT

<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approval Sheet</td>
<td>i</td>
</tr>
<tr>
<td>Biography</td>
<td>ii</td>
</tr>
<tr>
<td>Abstract</td>
<td>iii</td>
</tr>
<tr>
<td>Preface</td>
<td>iv</td>
</tr>
<tr>
<td>List of Content</td>
<td>vi</td>
</tr>
<tr>
<td>List of Table</td>
<td>ix</td>
</tr>
<tr>
<td>List of Figure</td>
<td>x</td>
</tr>
<tr>
<td>List of Appendix</td>
<td>xi</td>
</tr>
</tbody>
</table>

CHAPTER I INTRODUCTION

1.1 Background                    | 1    |
1.2 Problem Identification        | 8    |
1.3 Problem Limitation            | 8    |
1.4 Problem Formulation           | 9    |
1.5 Research Objective            | 9    |
1.6 Research Benefit              | 9    |
1.7 Operational Definitions       | 10   |

CHAPTER II LITERATURE REVIEW

2.1 Theoretical Framework         | 12   |
2.1.1 Learning Definition         | 12   |
2.1.2 Nature of Communication    | 14   |
2.1.3 Mathematical Communication | 15   |
2.1.4 Cooperative Learning       | 20   |
2.1.4.1 Definition and Characteristic of Cooperative Learning Model | 20   |
2.1.4.2 Cooperative Learning Model Team Games Tournament (TGT) Type | 23   |
2.1.4.3 Cooperative Learning Model Student Teams
Achievement Division (STAD) Type 29

2.2 Relevant Research 32
2.3 Conceptual Framework 33
2.4 Hypothesis 34

CHAPTER III RESEARCH METODOLOGY
3.1 Location and Time of Research 35
3.2 Population and Sample 35
3.3 Variable of Research 35
3.4 Type and Design of Research 36
3.5 Instrument of Research 36
   3.5.1 Mathematical Communication Ability Test 37
   3.5.2 Mathematical Communication Scoring 38
3.6 Procedure of Research 39
   3.6.1 Preparation Phase 39
   3.6.2 Implementation Phase 39
   3.6.3 Last Phase 39
3.7 The Instrumental Trial 41
3.8 Data Analysis Technique 41
   3.8.1 Descriptive Statistic 41
   3.8.2 Normality Test 41
   3.8.3 Homogeneity Test 42
   3.8.4 Hypothesis Test 42

CHAPTER IV RESULT AND DISCUSSION
4.1 The Description of Research Result 43
   4.1.1. Score of Mathematical Communication Ability Test 43
   4.1.2. Description of Student’s Mathematical Communication Ability 44
4.2 The Analysis Data of Research Result 45
4.2.1. Normality Test 45
4.2.2. Homogeneity Test 47
4.2.1. Hypothesis Test 48
4.3 Discussion 49

CHAPTER V CONCLUSION AND SUGGESTION

5.1 Conclusion 53
5.2 Suggestion 53

REFERENCES 54