

CONTENTS

	<i>Page</i>
ORIGINALITY STATEMENT SHEET	ii
PUBLICATION APPROVAL SHEET	iii
BIBLIOGRAPHY	iv
ABSTRAK	v
ABSTRACT	vi
ACKNOWLEDGEMENT.....	vii
CONTENTS.....	ix
LIST OF PICTURE	xi
LIST OF TABLES	xii
APPENDIX LIST	xiii
CHAPTER I. INTRODUCTION.....	1
1.1 Background of the Study	1
1.2 Problem Identification	3
1.3 Scope of Study.....	4
1.4 Research Questions	4
1.5 Study Objectives	5
1.6 Research Purpose	5
CHAPTER II. THEORITICAL REVIEW.....	6
2.1 Learning Innovation in Chemistry Teaching	6
2.2. Innovative Learning Material	7
2.3. Project Based Learning	7
2.4 Project Based Learning Innovation	10
2.5. Critical Thinking Skills.....	11
2.6 Topics of Redox Titration.....	14
2.7 Framework of Thinking.....	15
2.8 Research Hypothesis	15
CHAPTER III. RESEARCH METHODOLOGY	17
3.1 Location and Time of Research	17
3.2 Population and Sample	17

3.3 Subject and Object of Research	17
3.4 Operational Definition	19
3.5 Research Instrument.....	20
3.6 Data Collection Technique	20
3.7 Research Procedures.....	21
3.8 Data Analysis Technique	22
CHAPTER IV. RESEARCH RESULTS AND DISCUSSION	28
4.1 Learning Material for Redox Titration.....	28
4.2 Projects of Redox Titration	29
4.3. Standardization of Learning Material with Projects of Redox Titration	30
4.4. Implementation of Innovative Learning Material in Class	35
4.5 Achievement of Critical Thinking Skills in Redox Titration	37
4.6 Student Responses to Learning Using Developed Redox Titration Teaching Materials	39
4.7 Discussion Research	41
CHAPTER V. CONCLUSIONS AND SUGGESTIONS.....	43
5.1 Conclusion.....	43
5.2 Suggestion	44
REFERENCES	45