

## TABLE OF CONTENTS

	Page
<b>LEGALIZATION SHEET</b>	i
<b>BIOGRAPHY</b>	ii
<b>ABSTRACT</b>	iii
<b>ACKNOWLEDEGEMENT</b>	iv
<b>LIST OF CONTENT</b>	vi
<b>LIST OF FIGURE</b>	ix
<b>LIST OF TABLE</b>	x
<b>LIST OF APPENDIX</b>	xi
<b>CHAPTER I INTRODUCTION</b>	
1.1 Background	1
1.2 The Problem Identification	3
1.3 Problems Formulations	4
1.4 The Research Purpose	4
1.5 The Problem Limitation	5
1.6 Research Benefits	5
1.7 Operational Definitions	6
<b>Chapter II Literature</b>	
2.1 Definition of Innovation	7
2.1.1 Innovation in Education	8
2.1.2 Characteristics of Educational Innovation	9
2.1.3 Learning Innovation	11
2.1.4 Innovation Of Chemical Learning	11

2.2 Definition of Project-Based Learning	12
2.2.1 Principles of Project Based Learning	13
2.2.2 Implementation of Project Based Learning	14
2.2.3 Advantages of Project-Based Learning	17
2.3 Definition of learning material	18
2.3.1 Function of Learning Material	19
2.3.2 Classification of Learning Material	19
2.3.3 Objectives of Learning Material	20
2.3.4 Role of Learning Material	21
2.3.5 Development of Learning Material	22
2.3.6 Learning Material to Improve Competence	25
2.4 Conceptual Framework	26
2.5 Research Hypothesis	27
<b>CHAPTER III RESEARCH METHODOLOGY</b>	
3.1 Research Location and Time	28
3.2 Research Population and Sample	28
3.3 Type and Research design	29
3.4 Research Procedure	29
3.5 Research Instrument	32
3.6 Data Collection Technique	32
3.7 Data Collection and Data Analysis Technique	32
<b>CHAPTER IV RESULT AND DISCUSSION</b>	
4.1 Results of Research	34
4.1.1 Requirement Analysis	34

4.1.2 Curriculum Analysis	35
4.1.2.1 Analysis of Student Characteristics	35
4.1.3 Development of Chemistry Learning Material	36
4.2 Project in The Learning Material	37
4.3 Standardization of Chemistry Learning Material	38
4.4 Standardization Perception Innovation Learning Materials	40
4.5 Implementation of Innovated Chemistry Learning Material in Chemistry Teaching	43
4.5.1. Activities Assessment	43
4.6 Discussion of Research	44
<b>CHAPTER V CONCLUSION AND SUGGESTION</b>	
5.1 Conclusion	47
5.2 Suggestion	47
<b>REFERENCE</b>	48