

CONTENT LIST

	Page
LEGALIZATION SHEET	i
BIOGRAPHY	ii
ABSTRACT	iii
PREFACE	iv
CONTENT LIST	v
FIGURE LIST	vi
TABLE LIST	vii
APPENDIX LIST	viii
CHAPTER I : INTRODUCTION	1
1.1 Background	1
1.2 Problem Identification	4
1.3 Problem Limitation	4
1.4 Problem Formulation	5
1.5 Research Objective	5
1.6 Research Benefits	5
CHAPTER II : LITERATURE REVIEW	7
2.1 Theoretical Framework	7
2.1.1 Learning Definition	7
2.1.2 Learning Activity	9
2.1.3 Learning Outcomes	10
2.1.4 Critical Thinking Ability	12
2.1.5 Learning Model	18
2.1.6 The Cooperative Learning Model	21
2.1.6.1 Definition and Characteristic of Cooperative Learning Model	21
2.1.7 Cooperative Learning Model Type Think Pair Share (TPS)	23
2.1.7.1 Definition and Characteristic of Think Pair Share (TPS)	23
2.1.7.2 Think Pair Share Goals	24
2.1.7.3 Think Pair Share Syntax	24
2.1.7.4 The Advantages of TPS	25
2.1.8 Think Pair Share towards Student's Critical Thinking Ability	25
2.2 Learning Material	26
2.2.1 Voltage	26
2.2.2 Ohm's Law	26
2.2.2.1 Series and Parallel Circuit	27
2.2.2.1.1 Series Circuit	27
2.2.2.1.2 Parallel Circuit	28
2.2.3 Kirchhoff's Law	29
2.2.3.1 Kirchhoff's 1st Law	29
2.2.3.2 Kirchhoff's 2nd Law	30
2.2.4 Electrical Energy and Power	32
2.2.4.1 Electrical Energy	32
2.2.4.2 Electrical Power	32

2.3	Conceptual Framework	33
2.4	Hypothesis	35

CHAPTER III: RESEARCH METHOD **36**

3.1	Location and Time Research	36
3.1.1	Research Location	36
3.1.2	Research Time	36
3.2	Population and Sample Research	36
3.2.1	Research Population	36
3.2.2	Research Sample	36
3.3	Research Variable	36
3.4	Type and Research Design	37
3.4.3	Type	37
3.4.4	Research Design	37
3.5	Research Procedure	37
3.5.1	Preparation Phase	38
3.5.2	Implementation Phase	38
3.5.3	Last Phase	38
3.6	Research Instrument	40
3.6.1	Questionnaire	40
3.6.2	Interview	40
3.6.3	Student's Critical Thinking Test	40
3.6.4	Student's Critical Thinking Scoring	41
3.6.5	N-Gain Test	45
3.7	The Instrument of Data Analysis	45
3.7.1	Validity	45
3.8	Data Analysis Technique	46
3.8.1	Descriptive Statistic	46
3.8.2	Normality Test	46
3.8.3	Homogeneity Test	46
3.8.4	Hypothesis Test	48

CHAPTER IV: RESULT AND DISCUSSION **51**

4.1	The Description of research result	51
4.1.1	The Score of Student's Critical Thinking	51
4.1.2	The Description of student's critical thinking ability	54
4.1.3	The student's learning activity scoring	59
4.2	The Analysis of data	60
4.2.1	The data analysis of pre-test result	60
4.2.1.1	Normality test	60
4.2.1.2	Homogeneity Test	62
4.2.2	The analysis data of post-test result	63
4.2.2.1	Normality Test	63
4.2.2.2	Homogeneity Test	64
4.2.2.3	Hypothesis Test	65
4.2.2.4	Analysis of increasing the critical thinking ability	66
4.3	Discussion	67

CHAPTER V: CONCLUSION AND SUGGESTION	70
5.1 Conclusion	70
5.2 Suggestion	70
 REFERENCES	 71
Appendix	73

