

## TABLE OF CONTENTS

ABSTRAKSI .....	iii
ABSTRACT.....	iv
DEDICATION .....	v
ACKNOWLEDGMENT .....	vi
TABLE OF CONTENTS .....	vii
LIST OF TABLES .....	ix
LIST OF FIGURE.....	x
CHAPTER	
1. INTRODUCTION .....	1
1.1. Background.....	1
1.2. Formulation of the problem.....	2
1.3. Research purposes.....	2
1.4. Hypothesis.....	2
1.5. Methodology .....	2
1.6. Research Methods .....	3
CHAPTER	
2. LITERATURE REVIEW .....	5
2.1. Previous Research.....	5
2.2. RIP .....	7
2.3. Split Horizon Strategy .....	9
2.4. RIPng .....	10
2.5. Metric.....	10
2.6. IPv6.....	11

2.7. IEEE 802.11ax .....	13
2.8. Enterprise Private Network (EPN) .....	15
2.9. Network Simulator 3 (NS-3) .....	21
CHAPTER	
3. RESEARCH DESIGN .....	23
3.1. Routing Algorithms.....	23
3.2. Simulation Scenario .....	24
3.3. Validation Scenario.....	29
3.4. Performance Parameters.....	30
CHAPTER	
4. DATA AND ANALYSIS .....	33
4.1. Test And Analyze Data .....	33
4.2. Performance INDEX (TIPHON).....	42
CHAPTER	
5. CONCLUSIONS AND RECOMMENDATIONS .....	44
5.1. Conclusion .....	44
5.2. Recommendation.....	44
REFERENCES .....	45
APPENDICES .....	49
DATA RELATIVE TO CHAPTER 1 .....	50
DATA RELATIVE TO CHAPTER 3 .....	51