

LIST OF CONTENT

APPROVAL PAGE	i
SELF DECLARATION AGAINST PLAGIARISM	ii
ABSTRACT	iii
ABSTRAK	iv
PREFACE	v
DEDICATION.....	vi
LIST OF FIGURES	ix
LIST OF TABLES	x
ABBREVIATION.....	xi
TERMINOLOGY	xii
CHAPTER-1.....	1
INTRODUCTION	1
1.1. Background	1
1.2. The Gap of Real Condition and The Future	4
1.3. Problem Definition	4
1.4. Scope of Work.....	4
1.5. Problem Limitation	4
1.6. The Research Aim and Objectives.....	5
1.7. Hypotheses	5
1.8. Research Methods.....	5
CHAPTER-2.....	6
BASIC THEORY.....	6
2.1. GPON Overview.....	6
2.2. Dynamic Bandwidth Allocation	12
2.3. Bi Partition Dynamic Bandwidth Allocation.....	14
CHAPTER-3.....	21
SIMULATION DESIGN OF PROPOSED METHOD.....	21
3.1 The Research	21
3.2 Research Scenario.....	21
3.3 Simulation Scenario.....	25
3.4 Variable Parameter	27
3.5 System Validation.....	28
CHAPTER-4.....	32

SIMULATION & DATA ANALYSIS	32
4.1. Traffic Proportion	32
4.2. DBA Computing Time.....	35
4.3. Waiting Time.....	36
4.4. Transmission Time	37
4.5. Transmission Time	39
4.6. Total Time.....	39
CHAPTER-5.....	41
CONCLUSION & RECOMMENDATION	41
5.1 Conclusion.....	41
5.2 Recommendation	41
REFERENCES	xiv
APPENDIX	xv