

TABLE OF CONTENTS

ABSTRACT	2
TABLE OF CONTENTS	3
CHAPTER 1.....	4
1.1 Background.....	4
1.2 Problem Identification	6
1.3 Hypothesis	6
1.4 Scope of Works	7
1.5 Research Methodology	7
1.6 Thesis Structure	8
CHAPTER 2.....	9
2.1. WSN	9
2.2. LEACH Protocol	10
2.2.1. Setup Phase.....	10
2.2.2. Steady Phase	10
2.2.3. T-LEACH	10
2.2.4 Event-Driven Routing Protocol	10
2.3. MATLAB	11
CHAPTER 3.....	12
3.1. System Model	12
3.1.1 Setup phase	12
3.1.2 Steady phase	14
3. 2 Design	14
3. 3. Solution Implementation	16
3. 4 . Test & Analysis Scenarios.....	17
3.4.1 Data Collection Scenarios	17
CHAPTER 4.....	17
4.1 Simulation.....	18
4.2 Protocol Simulation Results	20
4.2.1 Number of Rounds Simulation Results	20
4. 2.2 Energy Use Simulation Results	22
B AB 5.....	24
5.1 Conclusion	24
5.2 Suggestion	25
Bibliography.....	26