Title of Your OELP

A Project Report Submitted
for the Open Ended Lab/Project
(Course No.: ID 3801)

by

Student Name1 (03010104)

and

Student Name2 (03010105)

under the guidance of

Your guide name

INDIAN INSTITUTE
OF TECHNOLOGY
PALAKKAD

CERTIFICATE

*This is to certify that the work contained in this report entitled "**Title of Your OELP**" is a bonafide work of **Student Name1** (**Roll No. 03010104**) and **Student Name2** (**Roll No. 03010105**), carried out under my/our supervision for the course Open Ended Lab/Project (ID 3801).*

Your mentors name and signature

Discipline of XXXXX

Indian Institute of Technology Palakkad

Acknowledgements

Write acknowledgements, if your want to.

Contents

List of Figures

List of Tables

Chapter 1

Introduction

Write introduction.

1.1 Section name

1st Section

1.2 2nd Section name

2nd Section

1.3 Organization of The Report

You can write the about organization of your report in the following manner.

This chapter provides a background for the topics covered in this report. We provided a description of wireless ad hoc networks, and their applications. Then we described the network model that represents the topology of wireless ad hoc networks [1]. In this chapter it is shown that the virtual backbone for wireless ad hoc networks can be represented by a connected dominating set. We explained clustering concepts and lastly the difference

between centralized and distributed algorithms are also discussed. The rest of the chapters are organised as follows: next chapter we provide review of prior works. In Chapter 3 and 4, we discuss our new algorithms for constructing small backbones for ad-hoc wireless network. And finally in chapter 6, we conclude with some future works.

Chapter 2

Review of Prior Work

Survey comes hear

2.1 Section name

write ....

2.2 Conclusion

This chapter provided details of the some of the existing distributed algorithms for constructing a CDS in wireless ad-hoc networks. The results of these evaluations are summarized in table **??**. In next chapter, we discuss our distributed Algorithm I, for constructing a small backbone in ad-hoc wireless network.

Chapter 3

Chapter 3 Title

give details of your algorithm

3.1 Conclusion

In this chapter, we proposed a distributed algorithm for construction of xyz. The complexity of this algorithm is $O(n \log n)$. Next chapter presents another distributed algorithm which has linear time complexity based on xyz.

Chapter 4

Chapter 4 Title

The algorithm presented in previous chapter has $O(n)$ time complexity. We further propose another distributed algorithm in this chapter based on xyz which has linear time complexity.

4.1 Construction

Write ...

4.2 Improved Method

Write...

4.3 Conclusion

In this chapter, we proposed another distributed algorithm for XYZ. This algorithm has both time complexity of $O(n)$ where n is the total number of nodes. In next chapter, we conclude and discuss some of the future aspects.

Chapter 5

Conclusion and Future Work

write results of your thesis and future work.

References

[1] H. A. Omar, K. Abboud, N. Cheng, K. R. Malekshan, A. T. Gamage, and W. Zhuang, "A survey on high efficiency wireless local area networks: Next generation wifi," *IEEE Communications Surveys Tutorials*, vol. 18, no. 4, pp. 2315–2344, 2016.