**Thesis for the Degree of B.Sc. Engineering**

# Thesis Title

## Author Name
## Student ID: 20111...

**Department of Computer Science and Engineering**

**Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh**

**December, 2015**

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by
## Author Name

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Supervised by
## Supervisor Name

**Submitted to the Department of Computer Science and Engineering of Bangabandhu Sheikh Mujibur Rahman Science and Technology University in partial fulfillment of the requirements for the degree of B.Sc. Engineering**

<u>**Thesis Evaluation Committee:**</u>

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Designation of Supervisor

## Additional Approvals ( if requires)*

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## Departmental Approval

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Name of Head of the Department
Chairman, Department of Computer Science and Engineering

**Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh**

*Dedicated to my parents, Mr. A*

*And*

*Mrs. B*

# Abstract

# Acknowledgment

At first I like to thank almighty Allah who gives me ability to perform the Thesis. Then I like to give many thanks to my thesis supervisor Md.Nesarul Hoque, Lecturer, Department of Computer Science and Engineering, who encouraged, supervised and supplied necessary requirements and guideline in performing this work. His inspiration for doing research on Bangla Document Ranking by using Term Frequency and Cosine Similarity let me capable to complete the Thesis. I am grateful to him for his unvarying encouragement and simulating ideas. I also like to give thanks to all my teachers and also that of my friends who gave me advice for the completeness of the thesis. Finally I like to special thank to my parents and all my well wishers for their encouragement and support along my study life.

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Shraboni Afroz Samapti

December, 2016

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# Chapter 1

# Introduction

## 1.1    Organization of the Thesis

The dissertation is organized as follows:

- **Chapter 1 Introduction.** In this chapter an introduction to the periodic patterns mining researches is presented. The definition, importance and existing approaches are clearly introduced. After that, the dissertation focuses the contribution.

- **Chapter 2 Related Work.** This chapter first shows the state of the art methods of the periodic patterns mining research. Then describe two existing periodic pattern mining works $PSEMiner$ and $ListMiner$ in dynamic networks. The limitations of these methods are clearly addressed, as these are the focuses of this dissertation.

- **Chapter 3 SPBMiner.** We present our proposed technique for mining periodic behaviors in dynamic networks.

- **Chapter 4 Experiments Analysis.** In this chapter, it has been shown the effectiveness and efficiency of our proposed method.

- **Chapter 5 Conclusion and Future Work.** Finally, this chapter concludes the dissertation indicating the limitations and future works.

# Chapter 2

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