

Acknowledgment

Firstly, I would like to acknowledge the contribution of Dr. Bishwajit S. Chakrabarty for motivating me and being a mentor. Without his constant support, guidance and discussion this research would not have been completed.

I would like to thank my parents and family members for their moral support and to keep me on correct path and allowing me to carry out my work,

I wish to express my deepest gratitude to my colleagues Rahul Desai and Piyush Bhatt for spending their valuable time on discussing various aspects related to my work and for being constant source of motivation at all stages of my thesis work. I am thankful to them for taking part in useful discussion and giving necessary advise and guidance and arranging lot of facilities to make my research work easier. Without their precious support for my research work theoretically and practically, this reaserch would not have been completed.

I would like to express my sincere gratitude and appreciation to Dr. Chetan Panchal for his generous advise and support during the research.

I am very much thankful to my dearest friend Nimesh Patel for his encouragement, timely help and invaluable support during the course of my Ph. D work,

I would like to express my thanks to my colleagues Sohan Chauhan, Johnson Kurruvilla, Kevil Shah, and Vismay Trivedi for their support in discussing my research work and help in understanding the work,

I express my deep sense of gratitude and profound respect to my colleagues Kavita Kolte and Pramod Sivan who have helped and encouraged me at all stages of my thesis work with great patience and immense care.

I wish to express my thanks to all research students of the department Dhaval Hirani, Avani Patel, Sonal Prajapati, Supriya Kasyap, Nimit Patel and Nakul Soni for being constant source of motivation and providing a friendly environment.

I would like to acknowledge UGC for sponsoring RFSMS fellowship.

Lastly, I wish to express my sincere thanks to my friend Heena Patel for her warm and affectionate feeling and keen interest in my work,

Laxmi J. Tomar