ACKNOWLEDGEMENTS

I would like to express my gratitude to all those who gave me the opportunity of completing this thesis, At the outset, I am extremely thankful to my guide Dr. V. Malleswara Rao, Professor, Electronics and Communication Engineering, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam. Being a dynamic supervisor supported in this work with lots of inspiration. His overall coordinative efforts, valuable guidance, time to time precious advices and analysis are rendered in the course of the progress of my work.

I am also thankful to Prof. C. Dharma raj, Vice principal, GITAM Institute of Technology and Chairman Board of studies, Department of Electronics and Communication Engineering, GITAM Institute of Technology, for his valuable suggestions during my research period.

I wish to express my sincere thanks to Dr. P.V.Y. Jayasree, Head of the Department, Electronics and Communication Engineering, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam, for her continuous support.

I wish to express my sincere thanks to Prof. K. Lakshmi Prasad, Principal, GITAM Institute of Technology, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam, for his continuous support.

I am extremely grateful to the Registrar and Vice-Chancellor of GITAM University for their kind permission given to me in using the resources of the institute. I am very much grateful to the GITAM (Deemed to be University) authorities for their back-up rendered throughout the evolution of the existing work.

I am thankful to Dr. T. V. Ramana, Dr. Sumanth, Dr. V.B.V. Srilatha Indira Dutt, Dr. S. Neeraja, Dr. I. Sreenivasa Rao and all faculty members of Electronics and Communication Engineering Department, GITAM Institute of Technology, GITAM Institute of Technology, GITAM (Deemed to be University), and Visakhapatnam for their support. I also thank the Non-Teaching staffs of the department who have supported me in my research work with their timely help.
I also thank to Dr. S. Aruna Kumari (Ophthalmologist), Government Hospital, Guntur, Andhra Pradesh, India, for incessant support for sharing with my views and useful suggestions and constant encouragement throughout the course and their constant help extended in making my thesis work.

My special thanks to Mr. B. Kumar Babu, Computer Science and Engineering Department, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam for his continuous support in my research work.

I wish to express my sincere thanks to Mr. Luther Benny, English professor, for his continuous support in my research work.

I am very much grateful to the GITAM (Deemed to be University), authorities for their back-up rendered throughout the evolution of the existing research work.

I also thank my colleagues who supported me in my research work with their timely help.

Before I finish, I would like to express my profound and hearty gratefulness to my parents whose blessings always lead my voyage in the right destination. I am indebted to my husband Mr. B. Ramesh Babu, my son Pranav Sai and my daughter Devi Laasya, without their support it would not have been possible to complete my thesis.

Last but not least, I owe my heartfelt thanks to my friends who helped me at several stages of my work.

B SRILATHA