



ACKNOWLEDGEMENTS

No significant work can be successfully completed without any support. This is a platform to acknowledge all who had given me direct or indirect help. It gives me immense pleasure to express my sincere gratitude towards my guide Prof. S.K.Shah whose constant support and endless and unconditional guidance gave a fruitful result to my endeavor in reaching the depth of the topic. It has been an honor to be his Ph.D. student. He has taught me, both consciously and unconsciously, how productive and stimulating experimental research work can be done. I express my profound thanks to all the faculty members and supporting staff of EED, FTE, Vadodra for their heartily support and invaluable guidance.

Also, I take this opportunity to thank Prin. R.C.Joshi, Campus director, SVMIT, Bharuch, for giving me the opportunity for joining the doctorate studies. He has taken a keen and active interest in timely completion of my Ph.D. work and helped me a lot in the preparation of research proposal, synopsis and thesis writing.

I am also thankful to Dr. S.S.Patel of SVMIT, Bharuch for helping me in understanding of some mathematical and statistical concepts. I am very much thankful to all faculty members and supporting staff of ETC Dept., SVMIT, Bharuch for their great support and for playing the role of listening crew and performing the hectic task of listening various speech outputs and their valuable evaluations.

With immense affection, I wish to express my sincere feelings to my grandmother and mother whose blessings motivated me throughout this endeavor. Also, a special thanks to my wife and son for being supportive all these years and particularly comprehensive with my lack of time.

Last but not the least; I am thankful to all who helped me directly or indirectly in progressing towards my goal.