Acknowledgement

It gives me an immense pleasure to express my gratitude to my research-guide Prof. S. R, Sawant, Head Dept. of Electronics. He has put in exemplary inspiration and guidance without which this work would have not taken the present shape.

I, sincerely thank Prin. A. G. Salunkhe, the Secretary, Shri Swami Vivekanand Shikshan Sanstha, Kolhapur, for seeing me through barriers at administration level.

I express deep gratitude towards the Principal Dr. Ashokrao N. Jagtap, Vivekanand College, Kolhapur for his confidence in me and for moral courage given time and again.

I am extremely grateful to Dr. R, R, Mudholkar for inspiring me to take up a research work based on Fuzzy Logic and introducing to the illuminating concepts of Fuzzy Logic.

I am thankful to Shri M. P. Ghatule for his great help in learning the operations of MatLab Tool.

I thank Dr. Shalgaonkar, Prof. Kadam, Dr. Uplane, and Dr. Wasambekar of Electronics Department, Shivaji University, Kolhapur, for extending all sort of help and providing the laboratory facilities.

I also thank the university authorities, especially BUTR - Section for making official formalities less tedious.

I am also thankful to Shri Y. D. Kamble, Dr. V. C. Mahajan, Shri N.A. Patil, Shri Raju Khot and my other colleagues, friends, teaching and non-teaching staff of my college who always appreciated even the smallest achievement on my part and cheered-up to get going enthusiastically.

MAR. BALAMANER KHARDEKAR LIBRAFT MIYAJI ULIVERSITY, KOLHAPUR I acknowledge shri. P. B. Modak – the proprietor, SMAP Industries, Kolhapur for sharing the work experiences and providing the data on ingredients of a choke and coil whenever asked for.

I am indeed thankful to Mrs. K, S. Sawant for a hot and steaming cup of tea in every visit to their lovely home of great hospitality.

I express sincere thanks to Sou. K, R, Mudholkar, proprietor of RaMa Sangnak Kendra for magnificent typing and printing work in well in time.

I take this opportunity to express my gratitude toward my Father, Mother, Brothers, Sisters, Auntie, and other family members, and my all Teachers who groomed me to rise such a status.

Finally I appreciate Mrs. Pallavi for her wifely patience and making the Research-Activities more comfortable and joyful. Master Abhishek. Madhuri, Guddi, Piyu, Manu and Sanket must excuse me for utilizing their share of my time during the entire period of research course.

Shri. D. M. Panhalkar
Research Student
Lecturer in Electronics
Department of Electronics
Vivekanand College, Kolhapur