

ACKNOWLEDGEMENTS

First and foremost I am very thankful to God Almighty for his graces and blessings without which this study would not have been possible. At this pointy I thank my parents whose sacrifice, ceaseless prayers and efforts made me to reach this position in my life. I am forever thankful to my husband **Dr. MNV Kiranbabu** who stood by me through all my travels. He gave me support and discussed ideas which gave a turning point for my research. I am delighted to have a son like **Jishnu Jayadhvaj Movva** who cooperated a lot in achieving the progress of this work.

I am pleased to express my sincere gratitude to my supervisor **Dr. K. Thirupathi Rao** sir for the continuous support and motivation. His guidance helped me all the time for research and successful completion of this work.

I am thankful to Chairman **Sri. Koneru Satyanarayana**, Chancellor **Dr. S. S. Mantha**, Vice-Chancellor **Dr. L. S. S. Reddy**, K L E F for provisioning with all facilities throughout the work. I express my thanks to Registrar **Dr. Y.V.S.S.S.V. Prasada Rao**, **Dr. K. Subbarao** Principal College of Engineering, **Dr. B. Jayakumar Singh**, Dean (R&D), **Dr. B.T.P. Madhav** Assoc. Dean (R&D), **Mr. HariKiran.Vege** (HOD-CSE), **Dr. M. R. Narsingarao**, (RPAC Chair-CSE), **Dr. G. Pradeepini** (RPAC Chair-CSE) for encouragement in the completion of my research work.

I would like to thank to my doctoral committee members **Dr. P. Saikiran**, **Dr. V. Krishna Reddy**, **Dr. B. Tirumala Rao** for their continuous suggestions and support in completing my research work. I thank **Dr. P. Vidyasagar** who supported me in my work by sharing administrative works at my work place.

I am very grateful to have very supporting friends around me who always encouraged, shared and supported in all my endeavours. Finally, I thank all those who have helped me directly or indirectly in the successful completion of my research work.

Thank You
Vadlamudi Divya