ACKNOWLEDGEMENT

There are a number of people without whom this thesis might not have been written, and to whom I am greatly indebted and owe my gratitude to:

My supervisor Dr. (Col.) P.S. JAMES and co-supervisor Dr. SWAMINATHAN R., who have supported me during my research with their patience and knowledge.

My mother, Goda Jayaram, who has been a source of encouragement and inspiration to me throughout my life. My father,(Late) M.S. Jayaram, whose faith in me to achieve the best motivated me throughout this research.

My husband, Prakash Benjamin, for his immense patience and emotional support throughout my entire research.

My daughter, Natasha Koshy, who in her own way taught me never to give up.

My friends and colleagues for their support. Finally, to God for his blessings.

Ms. SHRUTHI MAYUR J